

2013 ford explorer wiring diagram

Decoding the 2013 Ford Explorer Wiring Diagram: A Comprehensive Analysis

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Editor: Mr. David Miller, Certified Automotive Technician with over 20 years of experience in automotive repair and diagnostics. Mr. Miller's practical experience provides a crucial layer of verification and real-world application to the technical aspects of the analysis.

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1. Introduction: Understanding the Significance of the 2013 Ford Explorer Wiring Diagram

The 2013 Ford Explorer wiring diagram is a crucial document for anyone working on the vehicle's electrical system. This detailed schematic illustrates the complex network of wires, connectors, and components that power and control various features, from the headlights and engine to the infotainment system and advanced driver-assistance systems (ADAS). Understanding this diagram is paramount for successful troubleshooting, repairs, modifications, and even upgrades. This analysis delves into the historical context, technical intricacies, and current relevance of the 2013 Ford Explorer wiring diagram.

2. Historical Context: Evolution of Automotive Wiring Diagrams

Automotive wiring diagrams have evolved significantly throughout automotive history. Early vehicles had relatively simple electrical systems, reflected in straightforward diagrams. However, with the incorporation of increasingly sophisticated electronics and features, the complexity of these diagrams has grown exponentially. The 2013 Ford Explorer, representing a model year with advanced technology integration, demonstrates this evolution. Its wiring diagram is far more intricate compared to its predecessors, reflecting the integration of features like electronic stability control (ESC), advanced airbags, and sophisticated infotainment systems. The shift to standardized electronic control units (ECUs) also impacted the diagram's structure, leading to a more modular approach to system representation. The increased use of multiplex networks, allowing for data communication between different ECUs, added another layer of complexity requiring careful interpretation of the 2013 Ford Explorer wiring diagram.

3. Technical Analysis of the 2013 Ford Explorer Wiring Diagram

The 2013 Ford Explorer wiring diagram isn't a single document but rather a collection of schematics covering various subsystems. These typically include diagrams for:

Power Distribution: Showing the main battery feed, fuses, relays, and power distribution to major components. Understanding this section of the 2013 Ford Explorer wiring diagram is crucial for diagnosing electrical faults and ensuring proper voltage supply.

Body Control Module (BCM): Detailing the BCM's connections and control signals for features like lighting, locks, and windows. The BCM is a central component in modern vehicles, and its wiring is often intricate.

Powertrain Control Module (PCM): Illustrating the connections to various engine sensors, actuators, and transmission components. Accurate interpretation of this section of the 2013 Ford Explorer wiring diagram is vital for diagnosing engine and transmission problems.

Chassis Control Modules: Showing the wiring for systems like ABS, ESC, and traction control. These systems are safety-critical, and any work on their wiring requires careful attention to the 2013 Ford Explorer wiring diagram.

Infotainment and Communication Systems: Covering the wiring for the radio, navigation, and other communication interfaces. The complexity of these systems has dramatically increased in modern vehicles, demanding a thorough understanding of their associated wiring.

Each subsystem's diagram in the 2013 Ford Explorer wiring diagram uses standardized symbols and color-coding to represent different wires and components. These symbols adhere to industry standards, allowing for universal understanding amongst technicians. However, familiarity with these

standards and the specific nomenclature used by Ford is necessary for effective use. The diagrams often include tables detailing wire color codes, gauge sizes, and circuit descriptions, providing further clarity.

4. Current Relevance and Applications

The 2013 Ford Explorer wiring diagram remains highly relevant for several reasons:

Repair and Maintenance: Mechanics and DIY enthusiasts utilize the 2013 Ford Explorer wiring diagram to diagnose and repair electrical faults. Pinpointing the source of a malfunctioning component is significantly easier with a clear understanding of the wiring paths.

Modifications and Upgrades: Individuals installing aftermarket components or upgrading existing systems need the diagram to ensure proper integration and avoid electrical issues. This includes adding auxiliary lights, installing sound systems, or integrating advanced electronics.

Troubleshooting Electrical Problems: The diagram is invaluable for identifying short circuits, open circuits, and other electrical problems. Systematic tracing of wires, guided by the 2013 Ford Explorer wiring diagram, is a cornerstone of effective troubleshooting.

Safety: Correct interpretation of the 2013 Ford Explorer wiring diagram is essential for working on safety-critical systems such as airbags, brakes, and lighting. Mistakes can have serious consequences.

Research and Development: Automotive engineers and researchers use wiring diagrams to analyze and improve vehicle electrical systems. Understanding the existing architecture is critical for designing and integrating new technologies.

5. Accessing the 2013 Ford Explorer Wiring Diagram

Accessing the official 2013 Ford Explorer wiring diagram usually requires purchasing a repair manual from a reputable source such as a Ford dealership or a trusted online retailer specializing in automotive repair information. Using unofficial or inaccurate diagrams can lead to incorrect repairs, damaged components, and potentially hazardous situations. Many online forums and websites claim to provide these diagrams, but caution should be exercised to verify their authenticity and accuracy.

6. Conclusion

The 2013 Ford Explorer wiring diagram is a complex yet crucial document reflecting the sophisticated electrical architecture of this vehicle. Understanding and utilizing this diagram is essential for effective repair, modification, and troubleshooting. Its continued relevance highlights the enduring importance of detailed technical documentation in the automotive industry, emphasizing the need for accurate and reliable sources for accessing this vital information. The evolution of automotive technology only

serves to further underscore the importance of mastering the interpretation of these diagrams.

7. FAQs

1. Where can I find a reliable 2013 Ford Explorer wiring diagram? The best source is a genuine Ford repair manual from a dealership or reputable online retailer specializing in automotive repair information.
1. Is it safe to work on the electrical system without the diagram? No, working on a vehicle's electrical system without the diagram is highly risky and can lead to damage or injury.
1. What are the common symbols used in the diagram? The diagram uses industry-standard symbols for components like fuses, relays, and connectors. A legend within the diagram usually explains these symbols.
1. How can I identify specific wires in the diagram? The diagram uses color-coding and wire gauge information to identify specific wires. Tables usually accompany the diagrams to explain these codes.
1. What software can I use to view or manipulate the diagram? Simple PDF viewers are often sufficient. Some specialized automotive diagnostic software might incorporate wiring diagrams.
1. Can I use a wiring diagram from a different year model? No, it's not advisable. Wiring diagrams can change significantly between model years, even for seemingly minor updates.
1. What if I damage a wire during a repair? Carefully trace the damaged wire using the diagram to identify its function and properly repair or replace it. Consult a professional if unsure.

1. How important is understanding color codes in the diagram? Color codes are critical. They indicate specific circuits and are essential for correct wiring identification.
1. Are there online resources that can help me understand the diagram? While some online resources exist, prioritize official documentation to ensure accuracy and avoid potential misinterpretations.

8. Related Articles

1. Troubleshooting common electrical problems in the 2013 Ford Explorer: This article provides step-by-step troubleshooting guides for common electrical issues, using the 2013 Ford Explorer wiring diagram as a reference.
1. Understanding the Body Control Module (BCM) in the 2013 Ford Explorer: This article explains the function and wiring of the BCM, a central component in the vehicle's electrical system, using the relevant sections of the 2013 Ford Explorer wiring diagram.
1. Installing aftermarket accessories in the 2013 Ford Explorer: This article guides users on safely installing aftermarket components, emphasizing the importance of consulting the 2013 Ford Explorer wiring diagram to avoid electrical problems.
1. Repairing the 2013 Ford Explorer's lighting system: This article focuses on the repair and maintenance of the vehicle's lighting system, utilizing the relevant sections of the 2013 Ford Explorer wiring diagram.
1. Diagnosing powertrain issues using the 2013 Ford Explorer wiring diagram: This article illustrates how the wiring diagram aids in diagnosing problems with the engine and transmission.

1. Interpreting wire color codes in the 2013 Ford Explorer wiring diagram: This article provides a detailed explanation of the color-coding system used in the diagram and its significance in electrical troubleshooting.
1. Working with relays and fuses in the 2013 Ford Explorer: This article explains the function of relays and fuses and how the wiring diagram helps locate and replace them.
1. Safety precautions when working with the 2013 Ford Explorer's electrical system: This article provides essential safety tips for anyone working on the vehicle's electrical system.
1. Advanced diagnostics using the 2013 Ford Explorer wiring diagram and scan tools: This article explores the use of scan tools and the wiring diagram for advanced diagnostics and problem-solving.

2013 ford explorer wiring diagram: The Car Hacker's Handbook Craig Smith, 2016-03-01
Modern cars are more computerized than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies haven't kept pace with today's more hostile security environment, leaving millions vulnerable to attack. The Car Hacker's Handbook will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car Hacker's Handbook will show you how to: -Build an accurate threat model for your vehicle -Reverse engineer the CAN bus to fake engine signals -Exploit vulnerabilities in diagnostic and data-logging systems -Hack the ECU and other firmware and embedded systems -Feed exploits through infotainment and vehicle-to-vehicle communication systems -Override factory settings with performance-tuning techniques -Build physical and virtual test benches to try out exploits safely If you're curious about automotive security and have the urge to hack a two-ton computer, make The Car Hacker's Handbook your first stop.

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mechanics. Since 1960 Haynes has produced manuals written from hands-on experience based on a vehicle teardown with hundreds of photos and illustrations, making Haynes the world leader in automotive repair information.

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2013 ford explorer wiring diagram: Logistics 4.0 Turan Paksoy, Cigdem Gonul Kochan, Sadia Samar Ali, 2020-12-17 Industrial revolutions have impacted both, manufacturing and service. From the steam engine to digital automated production, the industrial revolutions have conducted significant changes in operations and supply chain management (SCM) processes. Swift changes in manufacturing and service systems have led to phenomenal improvements in productivity. The fast-paced environment brings new challenges and opportunities for the companies that are associated with the adaptation to the new concepts such as Internet of Things (IoT) and Cyber Physical Systems, artificial intelligence (AI), robotics, cyber security, data analytics, block chain and

cloud technology. These emerging technologies facilitated and expedited the birth of Logistics 4.0. Industrial Revolution 4.0 initiatives in SCM has attracted stakeholders' attentions due to its ability to empower using a set of technologies together that helps to execute more efficient production and distribution systems. This initiative has been called Logistics 4.0 of the fourth Industrial Revolution in SCM due to its high potential. Connecting entities, machines, physical items and enterprise resources to each other by using sensors, devices and the internet along the supply chains are the main attributes of Logistics 4.0. IoT enables customers to make more suitable and valuable decisions due to the data-driven structure of the Industry 4.0 paradigm. Besides that, the system's ability of gathering and analyzing information about the environment at any given time and adapting itself to the rapid changes add significant value to the SCM processes. In this peer-reviewed book, experts from all over the world, in the field present a conceptual framework for Logistics 4.0 and provide examples for usage of Industry 4.0 tools in SCM. This book is a work that will be beneficial for both practitioners and students and academicians, as it covers the theoretical framework, on the one hand, and includes examples of practice and real world.

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high-speed equipment and the drawing of ultra-high strength steels, along with new computer-based design and analysis software and techniques, including Finite Element Analysis. In addition, the author shares his design and risk prediction calculations, as well as several new case studies. New and extended sections cover measurement and instrumentation, die temperature and cooling, multiwire drawing, and high strength steel wire. Coverage of process economics has been greatly enhanced, including an exploration of product yields and cost analysis, as has the coverage of sustainability aspects such as energy use and recycling. As with the first edition, questions and problems are included at the end of each chapter to reinforce key concepts. - Written by an internationally-recognized specialist in wire drawing with extensive academic and industry experience - Provides real-world examples, problems, and case studies that allow engineers to easily apply the theory to their workplace, thus improving productivity and process efficiency - Covers both ferrous and non-ferrous metals in one volume

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and what changes may be necessary for companies? Experts from Germany and the United States define key societal, engineering, and mobility issues related to the automation of vehicles. They discuss the decisions programmers of automated vehicles must make to enable vehicles to perceive their environment, interact with other road users, and choose actions that may have ethical consequences. The authors further identify expectations and concerns that will form the basis for individual and societal acceptance of autonomous driving. While the safety benefits of such vehicles are tremendous, the authors demonstrate that these benefits will only be achieved if vehicles have an appropriate safety concept at the heart of their design. Realizing the potential of automated vehicles to reorganize traffic and transform mobility of people and goods requires similar care in the design of vehicles and networks. By covering all of these topics, the book aims to provide a current, comprehensive, and scientifically sound treatment of the emerging field of "autonomous driving."

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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.

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2013 ford explorer wiring diagram: Making the Geologic Now Elizabeth Ellsworth, Jamie Kruse, 2012-12-01 Making the Geologic Now announces shifts in cultural sensibilities and practices. It offers early sightings of an increasingly widespread turn toward the geologic as source of explanation, motivation, and inspiration for creative responses to conditions of the present moment. In the spirit of a broadside, this edited collection circulates images and short essays from over 40 artists, designers, architects, scholars, and journalists who are actively exploring and creatively responding to the geologic depth of now. Contributors' ideas and works are drawn from architecture, design, contemporary philosophy and art. They are offered as test sites for what might become thinkable or possible if humans were to collectively take up the geologic as our instructive co-designer-as a partner in designing thoughts, objects, systems, and experiences. A new cultural sensibility is emerging. As we struggle to understand and meet new material realities of earth and life on earth, it becomes increasingly obvious that the geologic is not just about rocks. We now cohabit with the geologic in unprecedented ways, in teeming assemblages of exchange and interaction among geologic materials and forces and the bio, cosmo, socio, political, legal, economic, strategic, and imaginary. As a reading and viewing experience, Making the Geologic Now is designed to move through culture, sounding an alert from the unfolding edge of the geologic turn that is now propagating through contemporary ideas and practices. Contributors include: Matt Baker, Jarrod Beck, Stephen Becker, Brooke Belisle, Jane Bennett, David Benque, Canary Project (Susannah Saylor, Edward Morris), Center for Land Use Interpretation, Brian Davis, Seth Denizen, Anthony Easton, Elizabeth Ellsworth, Valeria Federighi, William L. Fox, David Gersten, Bill Gilbert, Oliver Goodhall, John Gordon, Ilana Halperin, Lisa Hirmer, Rob Holmes, Katie Holten, Jane Hutton, Julia Kagan, Wade Kavanaugh, Oliver Kellhammer, Elizabeth Kolbert, Janike Kampevold Larsen, Jamie Kruse, William Lamson, Tim Maly, Geoff Manaugh, Don McKay, Rachel McRae, Brett Milligan, Christian MilNeil, Laura Moriarity, Stephen Nguyen, Erika Osborne, Trevor Paglen, Anne Reeve, Chris Rose, Victoria Sambunaris, Paul Lloyd Sargent, Antonio Stoppani, Rachel Sussman, Shimpei Takeda, Chris Taylor, Ryan Thompson, Etienne Turpin, Nicola Twilley, Bryan M. Wilson.

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2013 ford explorer wiring diagram: Drawing Futures Bob Sheil, Frédéric Migayrou, Luke Pearson, Laura Allen, 2016-11-11 Drawing Futures brings together international designers and artists for speculations in contemporary drawing for art and architecture. Despite numerous developments in technological manufacture and computational design that provide new grounds for designers, the act of drawing still plays a central role as a vehicle for speculation. There is a rich and long history of drawing tied to innovations in technology as well as to revolutions in our philosophical understanding of the world. In reflection of a society now underpinned by computational networks and interfaces allowing hitherto unprecedented views of the world, the

changing status of the drawing and its representation as a political act demands a platform for reflection and innovation. Drawing Futures will present a compendium of projects, writings and interviews that critically reassess the act of drawing and where its future may lie. Drawing Futures focuses on the discussion of how the field of drawing may expand synchronously alongside technological and computational developments. The book coincides with an international conference of the same name, taking place at The Bartlett School of Architecture, UCL, in November 2016. Bringing together practitioners from many creative fields, the book discusses how drawing is changing in relation to new technologies for the production and dissemination of ideas.

2013 ford explorer wiring diagram: *Improving the Airport Customer Experience* Bruce J. Boudreau, Greg Detmer, Susan Tam, Stephanie Box, Ryan Burke, Joanne Paternoster, Lou Carbone, 2016 TRB's Airport Cooperative Research Program (ACRP) Report 157: Improving the Airport Customer Experience documents notable and emerging practices in airport customer service management that increase customer satisfaction, recognizing the different types of customers (such as passengers, meeters and greeters, and employees) and types and sizes of airports. It also identifies potential improvements that airports could make for their customers. -- Publisher's description

2013 ford explorer wiring diagram: *Strengthening Communities with Neighborhood Data* G. Thomas Kingsley, Claudia J. Coulton, Kathryn L. S. Pettit, 2016-11-15 Efforts to address the problems of distressed urban neighborhoods stretch back to the 1800s, but until relatively recently, data played little role in forming policy. It wasn't until the early 1990s that all of the factors necessary for rigorous, multifaceted analysis of neighborhood conditions--automated government records, geospatial information systems, and local organizations that could leverage both--converged. Strengthening Communities documents that convergence and details its progress, plotting the ways data are improving local governance in America.

2013 ford explorer wiring diagram: *Ford Explorer* Jay Storer, John Harold Haynes, 2001 Total Car Care is the most complete, step-by-step automotive repair manual you'll ever use. All repair procedures are supported by detailed specifications, exploded views, and photographs. From the simplest repair procedure to the most complex, trust Chilton's Total Car Care to give you everything you need to do the job. Save time and money by doing it yourself, with the confidence only a Chilton Repair Manual can provide.

2013 ford explorer wiring diagram: *1998 Explorer Electrical/Vacuum Troubleshooting Manual* Ford Motor Company, 1997*

2013 ford explorer wiring diagram: *Ford Explorer, '11-'17* Haynes Publishing, 2018-05-01 Each Haynes manual provides specific and detailed instructions for performing everything from basic maintenance and troubleshooting to a complete overhaul of the machine, in this case the Ford Explorer, model years 2011 through 2017. Do-it-yourselfers will find this service and repair manual more comprehensive than the factory manual, making it an indispensable part of their tool box. A typical Haynes manual covers: general information; troubleshooting; lubrication and routine maintenance; engine top end; engine lower end; primary drive, clutch and external shift mechanism; transmission and internal shift mechanism; engine management system; electrical system; wheels, tires and drivebelt; front suspension and steering; rear suspension; brakes; body, and color wiring diagrams. An index makes the manual easy to navigate.

2013 ford explorer wiring diagram: *Ka Repair Manual Wiring Diagrams* , 1996

2013 ford explorer wiring diagram: *Transit '95 Repair Manual Wiring Diagrams* , 1995

2013 ford explorer wiring diagram: *Automobile Vacuum and Wiring Diagram Guide* Rector Press, Limited, 1994-08

Additional Resources

2011-2019 Ford Explorer Wiring Diagrams 22

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0LWFKH00 5HSDLU ,QIRUPDWLRQ &RPSD\ //& Title: 2011-2019 Ford Explorer Wiring
...

DS3+ / DS4+: Installation Guide. 2013 Ford Explorer.

The connection information listed below is specific to the 2013 Ford Explorer. Refer to "Pre-installation and application warnings" for a list of important notes. Data harness, 8-pin white ...

Wiring Pigtail Kits - fordservicecontent.com

To help identify which kit you need, Ford has started updating the Online Wiring Manual on the Ford PTS (Professional Technician Society) website with terminal information. Not all manuals ...

ACTION

Jan 4, 2016 · a. On the driver side cut the wires on the female side of C3133 and replace them with the new wiring pigtail. Only replace the length of wire removed from the harness. Solder ...

General Service Bulletin (GSB): All-Wheel Drive PTU Sealing All ...

This bulletin is intended to assist with the diagnosis and repair of All-wheel Drive Power Transfer Unit (PTU)-related fluid leaks. NOTE: This information is not intended to replace or supersede ...

Ford Explorer Manual - bozzio.ch

wires from the connector and plug them as per wiring diagram provided in this manual for your specific vehicle. UNIVESAL FUNCTIONS MODULE A programmable relay box, built in 12 ...

INSTALL GUIDE WITH F01 T-HARNESS - iDataLink

Oct 28, 2013 · • Refer to the WIRING DIAGRAM included on page 12. • See the WIRE CHART on page 13. Automotive Data Solutions Inc. © 2013 ADS-RR(SR)-FOR01-DS2TH-IG-EN ...

2013 Ford Explorer Wiring Diagram [PDF] - x-plane.com

The 2013 Ford Explorer wiring diagram is a crucial document for anyone working on the vehicle's electrical system. This detailed schematic illustrates the complex network of wires, connectors, ...

fordowner.com 2013 ford.ca EXPLORER

systems. In order to properly diagnose and service your vehicle, Ford Motor Company, Ford of Canada, and service and repair facilities may access or share among them vehicle diagnostic ...

2013 ENGINE Engine Mechanical -3.5L TI-VCT - Explorer ...

Courtesy of FORD MOTOR CO. Operation and required maintenance of the exhaust emission control devices used on this engine is covered in the diagnostic, emission, and powertrain ...

2011-2019 Ford Explorer Wiring Diagrams 101

2011-2019 Ford Explorer Wiring Diagrams 101 Created Date: 6/5/2020 12:19:34 AM ...

Ignition LOCK RUN Switch OFF Fuse Box - Rick's Free Auto ...

Check for battery on the (4) grey wire at starter motor with key in START position.

2013 Ford Explorer Wiring Diagram (Download Only)

2013 Ford Explorer Wiring Diagram: Ford Ranger & Mazda B-series Pick-ups Automotive Repair Manual Eric Jorgensen, Alan Ahlstrand, John Harold Haynes, 2010 Haynes manuals are written ...

Microsoft Word - IS M-6017-35CNTRL Rev4 - Ford Motor ...

- The wiring that plugs into the PCM is integral to the wiring harness that was included with your 3.5L crate engine, the length of these wiring leads dictate that mounting location be in close ...

2011-2019 Ford Explorer Wiring Diagrams 91

front seat front all seat not seat side seat swmh rear

BLOWER MOTOR - LOSS OF COMMUNICATION WITH HVAC ...

Explorer 1. Remove the left front seat. Refer to Workshop Manual (WSM), Section 501-10. 2. Remove the B-pillar trim panel. Refer to WSM, Section 501-05. 3. Pull back enough of the floor ...

2013 Ford Explorer Wiring Diagram [PDF] - data.tenorshare.com

How do I create a 2013 Ford Explorer Wiring Diagram PDF? There are several ways to create a PDF: Use software like Adobe Acrobat, Microsoft Word, or Google Docs, which often have built ...

A-1 HOW TO READ THE WIRING DIAGRAMS - Ford C-Max ...

This manual consists of wiring harness diagrams, installation locations of individual parts, circuits diagrams and index. In each section, all specifications are listed, including optional ...

FORD EXPLORER 1991-2006 - Ranger-Forums

On models with OEM keyless: door locks are negative trigger, on models without OEM keyless: door locks are 5-wire reverse polarity. The factory module that controls the door locks shuts ...

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)RUG ([SORUHU 6<67(0 : ,5,1* ' , \$*5\$06)LJ &RROLQJ)DQ &LUFXLW b x g y] 3DJH 0LWFKH00 5HSDLU ,QIRUPDWLRQ &RPSDQ\ //& Title: 2011-2019 Ford ...

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