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## 2024 ford fusion hybrid se owners manual

Welcome to [fufusion2.com](http://fufusion2.com), your source of Ford Fusion manuals and repair information. The second generation Ford Fusion is designed for a smooth drive, with features like Sport mode and EcoBoost models that enhance performance. With space for five, the interior offers comfort and style, including various seat trim options like cloth, ActiveX, and luxurious leather. Smart solutions include a large center console with storage and USB ports. The Ford Fusion brings broad fuel-efficient powertrain options, such as hybrids and plug-in hybrids, along with EcoBoost engines and automatic start-stop systems. This page provides access to owner's manuals for the Ford Fusion Hybrid/PHEV model organized by year. Owner's guides include information on navigation systems, lights, and controls, as well as roadside emergencies and maintenance procedures. Please note that Ford may change the contents without notice. Failure to properly use oil may cause piston ring seating issues. Check Engine oil usage in the Maintenance and Specifications section for more details. For the 2012 Fusion Hybrid, it's essential to note that the gas engine might shut off while coming to a stop to conserve fuel. Restarting isn't required; simply accelerate when ready to drive. Additionally, avoid lowering the rear seat, as this can cause issues. If the vehicle remains inoperative for over 31 days, jumpstarting may be necessary. Refer to Jump starting in the owner's guide for more information. To achieve better fuel economy, use moderate acceleration and braking, as excessive braking can lead to decreased efficiency. The Silent Key Start (SKS) feature will initiate the engine if cabin heating or low outside temperatures require it. Understanding the Atkinson engine cycle and eCVT transmission technology is key to maximizing hybrid fuel efficiency. Furthermore, do not use E85 in your vehicle, as this can cause damage. It's crucial to follow all warnings and instructions carefully to avoid personal injury. When installing child or infant seats, never place them in front of an active passenger airbag. To diagnose and service the vehicle correctly, Ford Motor Company and authorized service facilities must be consulted. Finally, driving while distracted can result in loss of control and serious consequences. Always prioritize safe vehicle operation and follow all safety recommendations. The dashboard warning lights in your 2012 Ford Fusion Hybrid provide vital information about the vehicle's status. Here are some key points to note: • Low brake fluid level or brake system malfunction: If the illumination after releasing the parking brake persists, contact an authorized dealer immediately. • Indicator light issues: If the light fails to illuminate when turned on, continues to flash, or remains on, notify your dealership as soon as possible. A chime may sound if there is a malfunction in the indicator light. • Ready to drive (RTT): This light illuminates briefly once the vehicle has successfully started, indicating that it's ready to drive even without hearing the gasoline engine running. • Engine coolant and motor/electronics coolant: Refer to the Maintenance and Specifications chapter for more information on this topic. • Warnings: Never remove the coolant reservoir cap while the engine is running or hot. • Important notices: • On (amber light): Illuminates when the speed control system is turned on. It turns off when the speed control system is engaged or turned off. • Turn signal on warning chime: Sounds when the turn signal has been left on for an extended period of time. • Instrument cluster display: Shows mpg, trip data, and other gauges relevant to hybrid vehicles. • Additional information: • Unique hybrid vehicle gauges are displayed along with familiar conventional gasoline vehicle gauges. • The efficiency display can be impacted by factors such as brakes usage, accelerator use, environmental conditions (terrain and weather), and more. The hybrid system indicator on the dashboard displays two modes: EV and a level indication of accessory power usage. When in EV mode, the system is operating without the gasoline engine. The level indication changes by turning accessories on and off. To control the message center functions: - Press and release the INFO button until TRIP A mode appears. - Select the TRIP B feature by pressing the INFO button again. - Reset the timer by pressing the RESET button. The message center menu is accessible from the left side of the screen, while the right side displays information only when the vehicle is stopped. Language options are available: - Inform - Enlighten (default level) - Engage - Empower Press SETUP to scroll through the list and select an option by pressing RESET. Options include 1 minute, 2 minutes, or 6 minutes of driving time. Other settings include: - Autolock - English language - Français - Español languages - Confirmation for Create MyKey feature Oil change requirements are indicated when necessary, while the Create MyKey feature allows users to set a specific key level. Use the INFO, SETUP and RESET buttons to navigate through this section of the owners guide. Check the brake system on page 46 as it needs servicing. If the warning stays on, contact your authorized dealer immediately. On page 47, service power steering is required. If the warning stays on, contact your authorized dealer as soon as possible. The trunk lid may be partially open on page 49. Make sure to close it completely to prevent the perimeter alarm system from triggering. The ignition must be turned to start before the 12-second chime expires, see perimeter alarm system in locks and security chapter on page 50. If you are using a MyKey when disabling advance trac, refer to mykey on page 51. Driving while distracted can result in loss of vehicle control, accident and injury, so use extreme caution with devices that take your focus off the road. The am/fm cd6/mp3 sound system is warning us about this, see page 52. The 10 strongest stations will be stored in preset one when prompted to play, but if there are fewer than 10 strong stations it will store the last one in remaining presets on page 53. When you're done with a disc, press eject and then remove it manually to avoid the system reloading it. To auto eject all loaded discs press and hold eject on page 54. In text mode, sometimes the display requires additional text to be displayed. Press TEXT and SEEK/TRACK to view this extra information on page 56. This guide is for hybrid vehicle owners in the USA, specifically for the 2012 Ford Fusion Hybrid. It covers how to reset the PIN to its default setting and use the satellite radio menu. On page 58, it's mentioned that some features require users to confirm commands by pressing OK. The guide also warns about the dangers of driving while distracted and advises drivers to use caution when using devices that may take their focus off the road. On page 60, there's a warning about the audio extension cable being long enough for safe storage during vehicle motion. The USB port is also mentioned with a similar warning. Pages 62-63 discuss CD player compatibility and the proper usage of CDs, including not using irregularly shaped CDs or those with scratch protection film attached. On page 65, it's noted that SIRIUS satellite radio channels can be found on their website or by calling them. However, users are informed that SIRIUS reserves the right to change programming and prices without notice. The guide also mentions that the system is working properly but cannot display song title information at this time. Passenger Temperature Control The passenger temperature system distributes air through various vents, including defroster, demister, floor, and rear seat floor vents. To minimize window fogging, the system automatically provides outside air. Pressing AUTO returns to full automatic control. The passenger heated seat is controlled separately; press the button to activate or deactivate it, as described in the Seating and Safety Restraints chapter. The outside temperature display shows EXT TEMP and can be converted between Fahrenheit and Celsius via the Message center in the Instrument Cluster chapter. To switch between passenger side temperature setting and dual zone operation, refer to the Seating and Safety Restraints chapter. Reducing blower fan speed from the highest setting and shifting into P gear position (for automatic transmissions) enables continuous cooling from the A/C system. When equipped with both rear defroster and heated mirrors, a single button activates both features, as described in the Driver Controls chapter. • Turn dome light on by pressing control up to activate right turn signal. • Dome lamps are located on overhead console, press controls to turn on • Check for thin mist (less than 50% of lens) or water puddle inside lamp, refer authorized dealer for replacement. • Replace instrument panel lights and fog lamp bulbs with new clear ones, see authorized dealer. • Install trunk floor carpeting panel and push side panel back into position Turn off all electrical accessories such as heater/air conditioning, wipers, etc., and ensure all vehicle doors are shut before starting the vehicle. Ensure the USB port and coin holder are accessible. Be cautious when using devices plugged into the 110-Volt power outlet on the back of the center console, as hard objects can cause injury in a collision. Avoid leaving battery chargers, video game adapters, computers, or other devices plugged in overnight or when parked for extended periods. Always keep the power point caps closed when not in use. To operate one-touch down windows, press the switch completely down to the second detent and release quickly. To stop window operation, momentarily press the switch to any position. Pressing the right side of the control locks out all window controls except for the driver and front passenger. Pressing the left side restores the window controls. In reverse gear, the image will remain for a few seconds before turning off. Refer to the Rearview camera system in the Driving chapter. With speed control set, you can maintain a set speed without keeping your foot on the accelerator pedal. However, do not use the speed control in heavy traffic or on roads that are winding, slippery, or unpaved. Disengaging the speed control does not erase the previous set speed. Resuming a set speed requires pressing and releasing RSM. Safety Standards apply to garage door openers manufactured prior to April 1, 1982. To avoid overriding programmed buttons, ensure simultaneous button presses are intentional. If you can't find the "learn" button, refer to your garage door opener's manual or contact Car2U system help line at 1-866-572-2728. Erase and reprogram devices as needed. The indicator light confirms Car2U system responsiveness. This device may receive interference, including undesired operation, and modifications by unauthorized facilities could void authorization. To install floor mats, position the eyelet over the retention post and press down to lock in. To remove, reverse the installation procedure. The remote trunk release control is located on the instrument panel. Note that MyKey users cannot deactivate the system, and it may be beneficial to do so if stuck in snow, mud or sand. The odometer tracks mileage when a MyKey is used; non-compliant systems will not accumulate mileage as expected. • If you lose your MyKey, purchase a new key from an authorized dealer. • Press the control to lock all doors, including smart locks that help prevent locking yourself out of the vehicle. • Complete Steps 1-5 within 30 seconds or repeat the procedure after waiting at least 30 seconds. • Ensure the driver door is opened and the ignition is in the off or accessory position within 10 minutes of transitioning to the off position. • The horn will chirp once if autolock was activated, then turn the ignition to the off position. • Familiarize yourself with operating the release handle and understand potential risks associated with high temperatures. • If you're experiencing issues with your Integrated Keyhead Transmitters, bring them to an authorized dealer for troubleshooting and reprogramming. • The battery saver will shut off headlamps 10 minutes after the ignition is turned to the off position. Using non-Ford aftermarket remote start systems may cause vehicle starting issues and security protection loss due to incompatibility. The theft indicator will flash every two seconds as a deterrent when the vehicle is armed. To disarm the vehicle, turn the ignition switch to the on position. If you have lost your keys, you must visit an authorized dealer for reprogramming. When programming new keys, follow steps 1-8 carefully, and repeat the process if needed. The vehicle will lock automatically after 20 seconds of closing all doors, the hood, and trunk. Be cautious not to open any door or use the remote entry transmitter within the key, as this may trigger the alarm. Never adjust the head restraint while driving, and ensure it is set correctly for your height. When adjusting the driver's seat or seatback, only do so when stationary. Always drive with your seatback upright and lap belt snugly fastened across your hips. The passenger seat has limited forward and rearward adjust capabilities. Power recline is standard on the driver's seat and optional on the passenger's seat. Heated seats will automatically turn off if the engine falls below 350 rpm while in use, requiring reactivation when restarted. Warning: Your 2012 Fusion Hybrid has Safety Features to Protect You •Seat Belts:\*\* Always put on your seat belt when you're sitting in the car. The seat belt will keep you safe during a crash. If you have a child with you, make sure they are safely buckled up too. •Cup Holders and Armrests\*\*: To get to the cup holders, push down the arm rest. Don't put hard things like bottles in there. •Child Seats:\*\* Only use soft cups in the cup holder. If you're using a child seat, make sure it's all the way back. •Safety Belts:\*\* Use your safety belt every time you get into the car. The Belt-Minder feature will tell you if you need to wear it again. The driver and front passenger Belt-Minder features can be deactivated or activated by following a specific procedure, which must be done when the parking brake is set. This feature aims to prevent injuries caused by airbags deploying in certain situations. According to the manual, children and younger siblings often imitate the behavior of adults they see, especially if there are two or more people in the vehicle. To avoid such incidents, it's essential to ensure that all occupants wear their seatbelts. The owner's guide also emphasizes the importance of maintaining the front end of the vehicle intact, as any modifications may affect the performance of the airbag system and increase the risk of injury. The airbag system in your 2012 Ford Fusion Hybrid is designed to deploy when the vehicle experiences lateral deceleration that triggers a sensor response. However, if you notice any intermittent issues with the system, it's essential to have it serviced by an authorized dealer immediately. It's crucial to keep the air curtain deployment zone clear of obstacles to minimize the risk of injury. Additionally, inspect and service the C-pillar trim and headliner as recommended, as failing to do so may increase the risk of injury in a collision. For safe child restraint, follow the guidelines outlined in this chapter and consult with a NHTSA Certified Child Passenger Safety Technician (CPST) or your pediatrician to ensure the correct seating position for your child. Children are safer when properly restrained in rear seats than in front seats. To install a forward-facing child seat, follow these steps: Position the seat in a seat with a combination lap and shoulder belt, just like you would for a rear-facing child seat. Make sure the latch is secure by tugging on it gently. If your child seat comes with a tether strap, attach it according to the manufacturer's instructions later in this chapter. The 2012 Fusion Hybrid owners guide recommends using a child safety seat with a top tether strap for extra security. When routing the tether strap, go under the head restraint and between the posts for outboard seats, or over the head restraint for center seats. Don't skip anchoring the safety seat properly - it's crucial to prevent injuries in case of a collision. If your child restraint system has a tether strap, use it if recommended by the manufacturer. For bigger kids who've outgrown their safety seats, consider using a belt-positioning booster to get a better fit for both lap and shoulder belts. This will position the child so that the vehicle's safety belts sit comfortably on them. Move the backless booster to another seat with a higher back or head restraint if needed. You must follow specific guidelines when it comes to tire quality grades as per U.S. Department of Transportation's regulations Part 575.104(c)(2). Ford Motor Company is required by the government to provide you with this information exactly as written on Page 194 of your vehicle's manual. Standard load tires, which are P-metric or Metric tires designed to handle a maximum load at 35 psi (37 psi for Metric tires), should not be inflated beyond this pressure as it won't increase their load-carrying capacity. You're strongly advised to get a reliable tire pressure gauge since automatic service station gauges may give inaccurate readings. It's recommended to use a digital or dial-type tire pressure gauge over a stick-type one. Always fill your tires with the Ford-recommended inflation pressure, even if it's less than the maximum allowed on the tire. This information can be found on the Safety Compliance Certification Label or Tire Label located on the B-Pillar or edge of the driver's door, as mentioned on Page 195. For safety reasons, avoid using damaged or excessively worn-out tires because they are more prone to blowing out or failing. Also, replace your spare tire along with your road tires or after six years due to aging, regardless of whether it's been used (refer to Page 198). When replacing tires, ensure the recommended size is not altered (e.g., from P-metric to LT-metric) and that it matches the originally provided specifications by Ford. The recommended tire and wheel size can be found on either the Safety Compliance Certification Label or Tire Label located on the B-Pillar or edge of the driver's door, as mentioned on Page 199. It's worth noting that the tire pressure sensors in your vehicle are not designed to work with aftermarket wheels (refer to Page 200). Using non-recommended wheels or tires may affect your tire pressure monitoring system. For vehicles with front-wheel drive and independent rear suspension, alignment of all four wheels might be required (Page 201). The Safety Compliance Certification Label on the B-Pillar or edge of the driver's door contains crucial information about your vehicle's tires, including a U.S. DOT Tire Identification Number for safety standards and potential recalls (refer to Page 202). Speed ratings may need adjustments based on different conditions. These ratings range from 81 mph to 186 mph and can be found in a chart listed on Page 203. Always refer to the Safety Compliance Certification Label for your vehicle's specific tire pressure requirements (Page 204). The recommended tire pressure for your vehicle should not be set lower than the pressure listed on the tire information label. The label may also include additional markings, such as "standard load" and "radial tubeless." Maximum Load The maximum single tire load is indicated at the cold inflation pressure, showing how much weight you can carry with that one tire when it's used alone. Check your owner's guide for more information. Locating Important Information You can find a Tire Label on the B-Pillar or on the driver's door edge. It will provide essential information about tire inflation and other important details. TPMS Operation The tire pressure monitoring system must be serviced according to the guidelines in this manual to function properly. The TPMS complies with FCC regulations and Industry Canada standards. If one of your road tires needs replacement, the TPMS will alert you that it needs to be repaired before being put back on the vehicle. TPMS Malfunction If the lights remain on after checking all tires are inflated, contact an authorized dealer as soon as possible. Do not drive with under-inflated tires, but instead head to a nearby garage or parking space may trigger false alerts due to sensor obstruction or objects being too close. In such cases, slowing down while reversing can help improve sensor coverage and accuracy. The system may also display a "TRAFFIC NOT AVAILABLE" warning on the message center and illuminate the exterior mirror alert indicators. However, these alerts are typically temporary and self-correcting. Additionally, it's worth noting that the BLIS-CTA alert will automatically dim when the headlamps switch is activated in parking mode or nighttime conditions detected by the sun sensor. When driving through water, make sure to dry your brakes slowly while applying gentle pressure on the brake pedal. This ensures that your vehicle stops safely and promptly. As a Ford vehicle owner, you have access to a complimentary roadside assistance program, which can be contacted at 1-800-241-3673 in case of any vehicle concerns. The service covers towing to the nearest dealership within a reasonable distance. It's also essential to inspect and repair fuel leaks after a collision to prevent potential risks of fire and injury. Ford recommends having your fuel system checked by an authorized dealer following any collision. The fuse panel is located below the steering wheel on the driver's side, accessible by removing the panel cover. You can use the provided fuse puller tool to remove fuses as needed. Various electrical components, including the HEV battery fan and passenger smart power window motor, are connected through the fuse panel. Understanding your vehicle's electrical system is crucial for proper maintenance and troubleshooting. If you've recently disconnected and reconnected your battery, consult the Battery section in the Maintenance and Specifications chapter for further guidance. Alternatively, if you're dealing with issues related to a disconnected battery, refer to the same section. In the auxiliary relay box located in front of the radiator, you'll find various fuses and relays controlling essential components like the rear defrost system, vacuum pump, brake controller pump, wiper washer, and more. The powertrain control module is also housed here, along with transmission and powertrain modules. When it comes to tire pressure monitoring systems (TPMS), be cautious not to use sealants on these sensors or valve stems, as they require replacement by an authorized Ford dealer. Instead, consult the Tires, Wheels and Loading chapter for important information. In case of a flat tire, ensure you park your vehicle on a level surface, engage the parking brake, activate the hazard flashers, shift into Park (P), and turn off the engine. Move your car far enough away from the road to avoid any potential hazards while operating the jack or changing the wheel. When raising your vehicle using a jack, center it between the two markings on the rocker flange to prevent structural damage. Secure the bolt with the lug wrench, then store the tool bag and carpeted load floor panel as instructed. Always use Ford-recommended replacement fasteners and ensure the mounting surfaces of the wheel or hub are clean before installation. If you're stranded and need assistance, park your booster vehicle close to the disabled vehicle's hood, keeping the two vehicles separate. Engage both parking brakes, stay clear of moving parts like the engine cooling fan, and ensure cables are kept clear. The owner's guide advises that after a disabled vehicle has been started and jumper cables removed, it should idle for several minutes to allow the engine computer to relearn its idle conditions. Additionally, it is recommended to tow the vehicle with a wheel lift or flatbed equipment, as Ford Motor Company has not approved slingbelt towing procedures. The owner's guide also provides guidelines for repairs, including using authorized parts and allowing a reasonable time to perform repairs after visiting an authorized dealer. In some states, drivers must notify Ford in writing before pursuing remedies under state warranty laws. Furthermore, the Better Business Bureau (BBB) Auto Line program is available for vehicles delivered to authorized Canadian dealers. For customers living in specific locations, including Guam, the Commonwealth of the Northern Mariana Islands, America Samoa, and the U.S. Virgin Islands, a toll-free number and fax number are provided. Additionally, if a vehicle must be serviced while traveling or living in Puerto Rico, drivers should contact the nearest authorized dealer. Authorized dealers are recommended for product inquiries. NHTSA cannot intervene in individual disputes between you, your dealer, and Ford Motor Company. Contact them at the Vehicle Safety Hotline (1-888-327-4236, TTY: 1-800-424-9153) to report any issues. When cleaning the engine, • Avoid using abrasive materials like steel wool or plastic pads as they can scratch the chrome surface. • Be cautious when using a power washer, as high-pressure fluids may damage sealed parts. Approved products from your authorized dealer should be used for routine cleaning and maintaining the chrome surface. For tar and grease spots, use Motorcraft Bug and Tar Remover (ZC-42). Avoid cleaners that increase gloss on the upper instrument panel, as this helps protect drivers from glare. For interior cleaning: • Use Carpet & Upholstery Cleaner (ZC-54) for routine cleaning. • If grease or tar is present, spot-clean first with Motorcraft Spot and Stain Remover (ZC-14). • Avoid products that may damage leather surfaces. Flush the underside of your vehicle frequently to keep it clean. Remove dirt from body and door drain holes to ensure proper drainage. For underbody cleaning: • Use Ford and Lincoln car care products, specifically designed for your vehicle. • Block the wheels and set the parking brake before starting. For maintenance: • Turn off the engine and remove the key. • Release the auxiliary latch and lift the hood to access components like the coolant reservoir, brake fluid reservoir, power distribution box, air cleaner assembly, low voltage battery, and windshield washer fluid reservoir. May cause unusual noises such as squeaking or chatter sounds, as well as streaking and smearing. Ensure the dipstick is fully seated after use. To add engine oil: • Check the engine oil level first; refer to the "Checking the engine oil" section in this guide for instructions. • Use only Motorcraft SAE 5W-20 oil or equivalent that meets Ford's specification WSS-M2C945-A. This ensures optimal fuel economy and durability. Change your engine oil and filter according to the scheduled maintenance schedule. Use Ford-approved replacement oil filters for added protection and long life. Using a non-Ford-compatible oil filter may cause start-up noises or knocking sounds. • Avoid using fuel pump with children around; children shouldn't use it at all. • Refuel carefully, never using your phone while doing so. This can cause fires. • Check if fuel container is dirty; clean or replace it according to the manual. • Use only original Ford gas for best engine performance and air quality. • Do not run out of fuel as this may damage your car's engine components. • Only use official funnel provided with vehicle, do not use alternative ones. • To check how well you're using fuel, calculate miles driven divided by gallons used. • Drive long distances first to warm up engine and improve fuel efficiency. • Always keep tires properly inflated and wheels aligned for good maintenance. Maintain the vehicle properly to prevent damage: • Use light grade oil and follow cleaning instructions. • Cover interior trim to prevent fading, and keep rubber parts free from oil and solvents. • Ensure brakes and parking brake are fully released. • Check tire pressure regularly. Keep underbody components protected: • Grease linkages, cables, levers, and pins to prevent rust. Spark plugs should meet Ford specifications. • Replace spark plugs with Motorcraft or equivalent for customer warranty protection. Important vehicle information: • Compression ratio: 12.3:1 • Engine drivebelt routing: [insert diagram] • High voltage battery data: Nickel metal hydride, nominal voltage 275 volts, system capacity 5.5 amp-hours Identify your vehicle with the VIN: • The Vehicle Identification Number (VIN) is located on the driver side instrument panel. Transmission code designations: • Electronically-controlled continuously variable transmission (eCVT) Custom accessories are available from Ford dealers: • Quality accessories engineered to meet Ford requirements • Contact a dealer for details on warranties and more information Extended Service Plan benefits: • Minimize risk of unexpected repair bills • Quickly pay for itself with one service bill Ford Motor Company Extended Service Plan: Protecting Your Investment Your local Ford of Canada dealer or [www.ford.ca](http://www.ford.ca) can help you find the right Ford Extended Service Plan for your needs. Note that repairs outside of Canada and the US are not covered under this plan. Dealerships use genuine Ford parts and factory-trained technicians to perform required maintenance. They're committed to meeting your service needs and ensuring customer satisfaction. Investing in regular maintenance can improve reliability, durability, and resale value. Check your Warranty Guide for complete information on warranties, and avoid using chemicals or additives not approved by Ford. Ford recommends its Genuine Ford and Motorcraft replacement parts, which meet or exceed Ford's specifications. These parts come with a nationwide 12-month/12,000-mile warranty. Regular inspections can help identify potential issues and prevent major problems. Follow the recommended multi-point inspection schedule to ensure your vehicle runs great. Fusion Hybrid and MKZ Hybrid Vehicle Maintenance Schedule Safety Features and Procedures: - Light and chime system - Stereo CD-MP3 player with volume control at 51 - LATCH anchors for safety restraints at 183 - SYNC connectivity at 67 - Wipers, checking and adding fluid procedure at 288 - Replacing wiper blades procedure at 288 - Lubricant specifications and fluid refill capacities at 314

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