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> [ODM FD-8-8705 Front Right CV Axle Shaft Assembly User Manual for Ford Escape 2013-2019](#)

ODM FD-8-8705

ODM FD-8-8705 Front Right CV Axle Shaft Assembly User Manual

Model: FD-8-8705 | Brand: ODM

1. INTRODUCTION

This manual provides essential information for the ODM FD-8-8705 Front Right CV Axle Shaft Assembly. It covers product overview, vehicle fitment, installation considerations, maintenance guidelines, and troubleshooting tips. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. PRODUCT OVERVIEW

The ODM FD-8-8705 is a brand-new, sturdy Constant Velocity (CV) Axle Shaft designed for direct replacement in compatible vehicles. It is engineered for reliable power transfer and durability.



Image 2.1: Overview of the ODM FD-8-8705 Front Right CV Axle Shaft Assembly.

2.1 Key Features

- **Material Construction:** Manufactured from AISI 5140 Alloy Steel for extreme strength, hardness, heavy-duty wear protection, and corrosion resistance.
- **Sealing Protection:** Features Neoprene boots with precision clamps to create a watertight seal, preventing moisture, debris, and grease leakage. These boots are designed to withstand extreme temperatures without cracking.
- **Corrosion Resistance:** Shafts and housings are coated to defend against road salt and chemical damage.
- **CV Joints:** High-performance 12-ball design with stabilized ball cages ensures reliable power transfer and maintains power delivery at up to 47° articulation.
- **Precision Splines:** Engineered to reduce operational vibration and eliminate power loss during torque transfer. They also compensate for engine and frame movement.
- **Quick-Release Design:** Facilitates faster service and installation.



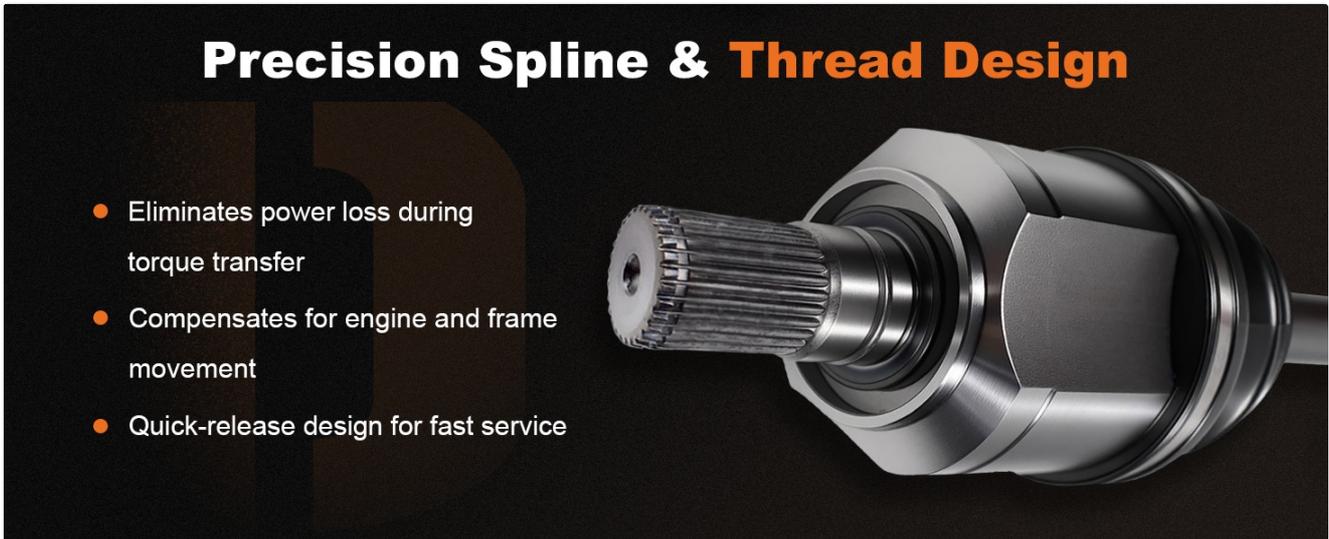
Inner and Outer CV Joint

» 6-Ball Fixed Outer Joint

» Withstands 1,200-7,850 Nm load range

» Maintains power delivery at 47° articulation

Image 2.2: Illustration of the inner and outer CV joint design, highlighting the 12-ball fixed outer joint and load range capabilities.



Precision Spline & Thread Design

- Eliminates power loss during torque transfer
- Compensates for engine and frame movement
- Quick-release design for fast service



Image 2.3: Detail of the precision spline and thread design, engineered for efficient torque transfer and vibration reduction.

3. VEHICLE FITMENT

This Front Right CV Axle Shaft Assembly (Model FD-8-8705) is compatible with the following vehicle specifications:

- **Make:** Ford
- **Model:** Escape
- **Years:** 2013, 2014, 2015, 2016, 2017, 2018, 2019
- **Engine Sizes:** 1.5L, 1.6L, 2.0L
- **Drivetrain:** All-Wheel Drive (AWD)

Reference Numbers: FD-8-8705, NCV11167, FD-8213, 66-2285.



Image 3.1: Illustrative image of a vehicle operating in various environments, demonstrating the axle's intended application.

4. INSTALLATION (SETUP)

Important Notice: For proper installation, always consult your vehicle's service manual. If you lack the technical

expertise or specific installation instructions, it is strongly recommended to have this part installed by a certified automotive technician.

4.1 General Installation Considerations

- Ensure the vehicle is safely supported on jack stands or a lift.
- Disconnect the battery if necessary, following vehicle manufacturer guidelines.
- Remove the wheel and brake components to access the axle.
- Carefully detach the old CV axle, noting the orientation and any retaining clips or bolts.
- Install the new ODM FD-8-8705 CV Axle Shaft, ensuring all splines align correctly and boots are not twisted or damaged during installation.
- Secure all fasteners to the vehicle manufacturer's specified torque settings.
- Reassemble brake components and wheel.
- Perform a test drive to confirm proper operation and absence of unusual noises or vibrations.

Safety Warning: Improper installation can lead to vehicle damage, loss of control, and serious injury. Always prioritize safety and professional guidance.

5. MAINTENANCE

The ODM FD-8-8705 CV Axle Shaft Assembly is designed for durability. Regular inspection is recommended to ensure its longevity and safe operation.

5.1 Inspection Schedule

- Inspect CV boots for tears, cracks, or signs of grease leakage during routine vehicle maintenance (e.g., oil changes, tire rotations).
- Listen for unusual noises (clicking, knocking) during turns or acceleration.

5.2 Replacement Interval

While specific replacement intervals can vary based on driving conditions and vehicle usage, a general guideline for CV axle replacement is:

- Every 80,000-100,000 kilometers (approximately 50,000-60,000 miles)
- Or every 60-90 months (5-7.5 years)
- **Whichever comes first.**

How often does the CV Axle need to be replaced?



80,000-100,000 km



(Whichever comes first)



60-90 months

Important Notice : For proper installation, always consult your vehicle's service manual. If you lack the technical expertise or installation instructions, we strongly recommend having this part installed by a certified automotive technician.

Image 5.1: Visual guide for recommended CV axle replacement intervals based on mileage or time.

6. TROUBLESHOOTING

Recognizing the warning signs of a failing CV axle is crucial for timely replacement and preventing further drivetrain damage.

6.1 Common Warning Signs for Axle Replacement

- **Audible Clicking or Popping:** A distinct clicking or popping sound, especially noticeable during turns, indicates wear in the CV joint.
- **Grease Leakage:** Visible grease leaking from torn or cracked CV boots suggests that the protective seal has failed, allowing contaminants in and lubricant out.
- **Vibrations:** Vibrations felt during acceleration can be a symptom of a worn or damaged CV axle.
- **Knocking Sounds:** Unusual knocking sounds when shifting gears may also point to axle issues.

Warning: Continued operation with a damaged CV axle risks drivetrain failure and compromised vehicle safety. Immediate inspection and replacement are required if these symptoms are observed.



Image 6.1: Visual representation of common warning signs indicating the need for CV axle replacement.

7. SPECIFICATIONS

Specification	Detail
Manufacturer	ODM
Brand	ODM
Model Number	FD-8-8705
OEM Part Numbers	NCV11167, 662285, FD8213
Item Weight	22.4 pounds
Product Dimensions	39.4 x 4.5 x 4.5 inches

Specification	Detail
Material	AISI 5140 Alloy Steel (shaft), Neoprene (boots)
Load Range (CV Joint)	1,200-7,850 Nm
Articulation (CV Joint)	Up to 47°
Heat Treatment Process	4-step process
Temperature Test Range	Low: -40°F; High: +478°F
Fatigue Test	200,000 Cycles



Image 7.1: Illustration of the precision machining and rigorous testing processes, including heat treatment, temperature, and fatigue tests.

8. WARRANTY AND SUPPORT

Specific warranty details for the ODM FD-8-8705 CV Axle Shaft Assembly are typically provided at the point of purchase or through the manufacturer's official channels. Please refer to your purchase documentation or the ODM brand website for comprehensive warranty information.

For technical support or inquiries regarding this product, please contact ODM customer service through their official website or the retailer from whom the product was purchased.