

TECHNICAL SERVICE BULLETIN

Transmission Stuck In Park (P) On The Instrument Cluster Not Illuminated - Diagnostic Trouble Code (DTC) P07E6

24-2193

18 September 2024

Model:

Ford 2023-2024 Escape	Transmission: HF45 Hybrid Transmission
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Markets: North America market only

Issue: Some 2023-2024 Escape vehicles equipped with a HF45 transmission may exhibit an illuminated powertrain malfunction (wrench) indicator with DTC P07E6 stored in the inverter system controller SOBDMC, the GSM will display a flashing P on the dial, the P on the instrument cluster is not illuminated, and the vehicle will be stuck in the park (P) position. This may be due to the park lock actuator. To correct the condition, follow the Service Procedure to verify and if necessary replace the park lock actuator.

Action: Follow the Service Procedure to correct the condition on vehicles that meet all of the following criteria:

- 2023-2024 Escape equipped with a HF45 transmission
- One of the following symptoms:
 - DTCP07E6 from the SOBDMC
 - Blinking P on the GSM
 - Instrument cluster P not illuminated

Parts

Service Part Number	Claim Quantity	Package Order Quantity	Number in Package	Description
LX6Z-7P236-B	1	1	1	Park Lock Actuator
W720388-S439	3	1	4	Rear Frame Bracket Bolts
LX6Z-4B496-A	6	2	3	Driveshaft fasteners
W500721-S439	2	1	6	Rear Frame Bolt
W719470-S439	2	1	4	Front Subframe Bolt
W713199-S442	4	1	4	Frame Bracket Bolts
W719192-S439	2	1	4	Mid-Frame Bolt
W500727-S439	6	2	4	Front Frame Bolt
W716603-S442	4	1	4	Frame Bracket Bolts
W719813-S440	2	1	4	Sway Bar Nut
W500566-S439	1	1	4	Transmission Mount Bolt
W721688-S439	2	1	4	Transmission Mounting Bolt
W520515-S442	2	1	4	Ball Joint Nuts
W719924-S439	2	1	4	Ball Joint Bolt
W520203-S440	2	2	1	Tie Rod Nut
CCPZ-3B477-G	2	2	1	Axle Retainer nut
W718843-S439	1	1	4	Steering Shaft Bolt
JX6Z-3D677-C	1	1	1	Steering Rack Seal
JX6Z-3B498-B	2	2	1	Axle Cir-Clip

W520102-S442	2	1	4	Right Axle Strap Nut
YS4Z-3N324-AA	1	1	1	Right Axle Strap
LX6Z-5A215-A	1	1	1	Exhaust Clamp
W708176-S437	7	2	4	Exhaust Manifold Nut
LX6Z-9448-A	1	1	1	Exhaust Manifold Gasket
LX6Z-9E464-F	1	1	1	Lower EGR Tube Gasket
LX6Z-9E464-B	1	1	1	Upper EGR Tube Gasket
JM5Z-1S177-A	2	2	1	Axle Shaft Seal
JM5Z-7H260-A	1	1	1	Axle Shaft Seal (AWD)
W719767-S439	2	1	4	Intermediate Axle Shaft Bolt
K2GZ-7H469-D	1	1	1	RDU Seal Kit
K2GZ-7275-B	1	1	1	Right Axle Cir Clip Kit (AWD)
W719766-S439	5	2	4	RDU Mount Bolt
VC-13-G	As Needed	As Needed	1	Motorcraft® Yellow Concentrated Antifreeze/Coolant (All Markets Except Canada)
CVC-13-G	As Needed	As Needed	1	Motorcraft® Yellow Concentrated Antifreeze/Coolant (Canada Only)
YN-33-A	As Needed	As Needed	1	R-1234yf Refrigerant (All Markets Except Canada)
HS7Z-19B519-BA	As Needed	As Needed	1	R-1234yf Refrigerant (Canada Only)
ZC-30	As Needed	As Needed	1	Motorcraft® Gasket Remover
ZC-31-B	As Needed	As Needed	1	Motorcraft® Metal Surface Prep Wipes
TA-29	As Needed	As Needed	1	Motorcraft® Ultra Silicone Sealant
PM-4-A	As Needed	As Needed	1	Motorcraft® Metal Brake Parts Cleaner
PM-4-B	As Needed	As Needed	1	Motorcraft® Metal Brake Parts Cleaner
XT-12-QULV	As Needed	As Needed	1	Motorcraft® MERCON® ULV Automatic Transmission Fluid

Claim Quantity refers to the total number of individual pieces required to repair the vehicle.

Package Order Quantity refers to the amount of the service part number package(s) required to repair the vehicle.

Number In Package refers to the number of individual pieces included in a service part number package.

As Needed indicates the amount of the part may vary and/or is not a whole number. Parts can be billed out as non-whole numbers, including less than 1.

Warranty Status: Eligible under provisions of New Vehicle Limited Warranty (NVLW)/Emissions Warranty/Service Part Warranty (SPW)/Service Part New Vehicle (SPNV)/Extended Service Plan (ESP) coverage. Limits/policies/prior approvals are not altered by a TSB. NVLW/Emissions Warranty/SPW/SPNV/ESP coverage limits are determined by the identified causal part and verified using the OASIS part coverage tool.

Labor Times

Description	Operation No.	Time
2020-2024 Escape Hybrid AWD: Retrieve DTCs, Monitor PIDs And Replace The Park Lock Actuator (Can Be Claimed With Operation C And D) (Do Not Use With Any Other Labor Operations Outside Of This Article)	242193A	14.1 Hrs.
2020-2024 Escape Hybrid FWD: Retrieve DTCs, Monitor PIDs And Replace The Park Lock Actuator (Can Be Claimed With Operation C And D) (Do Not Use With Any Other Labor Operations Outside Of This Article)	242193B	13.1 Hrs.

Additional Time To Check And Correct Front Toe (Can Be Claimed With Operation A Or B And D)	242193C	0.5 Hrs.
Additional Time To Perform 360 Degree Camera Alignment (Can Be Claimed With Operation A Or B And C)	242193D	0.8 Hrs.

Repair/Claim Coding

Causal Part:	7P236
Condition Code:	42

Service Procedure

- Using the datalogger feature in the FDRS scan tool select the following PID in the SOBDMC to check the operation of the park lock actuator as shown through the system
 - TR_CORRECTED
 - TR_PARK_A
 - TR_PARK_B
 - TR_PARK_C
 - TR_PARK_STAT
 - GEAR_CMD
- Does the TR_Park A value equal more than 20% when the vehicle is in the park (p) position?
 - Yes - proceed to Step 3.
 - No - this article does not apply. Follow diagnostics for DTC P07E6 Refer to WSM, Section 307-01 HF45 Diagnostics and Testing.
- Replace the park lock actuator. Refer to WSM, Section 307-01B.
 - It is not necessary to remove the inverter system controller SOBDMC for this procedure.
 - It is not necessary to drain the engine oil or remove the engine oil filter for this procedure.

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NOTE: The information in Technical Service Bulletins is intended for use by trained, professional technicians with the knowledge, tools, and equipment to do the job properly and safely. It informs these technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by "do-it-yourselfers". Do not assume that a condition described affects your car or truck. Contact a Ford or Lincoln dealership to determine whether the Bulletin applies to your vehicle. Warranty Policy and Extended Service Plan documentation determine Warranty and/or Extended Service Plan coverage unless stated otherwise in the TSB article. The information in this Technical Service Bulletin (TSB) was current at the time of printing. Ford Motor Company reserves the right to supersede this information with updates. The most recent information is available through Ford Motor Company's on-line technical resources.