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2020 Ford Escape Service and Repair Manual

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- Using a diagnostic scan tool, perform a DDM (driver door module) self-test.

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to: Locks, Latches and Entry Systems (501-14 Handles, Locks, Latches and Entry Systems, Diagnosis and Testing).
No	GO to M4

M4 CHECK THE GWM (GATEWAY MODULE A) DIAGNOSTIC TROUBLE CODES (DTCS)

- Using a diagnostic scan tool, retrieve the GWM (gateway module A) Diagnostic Trouble Codes (DTCs).

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to: Controller Area Network (CAN) Module Communications Network (418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).
No	GO to M5

M5 PERFORM THE PCM (POWERTRAIN CONTROL MODULE) SELF-TEST

- Using a diagnostic scan tool, perform the PCM (powertrain control module) self-test.

Are any non-network Diagnostic Trouble Codes (DTCs) present?

Yes	REFER to PCM DTC Chart in this section.
No	GO to M6

M6 RECHECK THE PCM (POWERTRAIN CONTROL MODULE) DIAGNOSTIC TROUBLE CODES (DTCS)

NOTE

No	The system is operating correctly at this time. The concern may have been due to incorrect parts replacement procedures or incorrect module configuration.
M8 CHECK FOR CORRECT PDM (PASSENGER DOOR MODULE) OPERATION	
<ul style="list-style-type: none"> • Ignition OFF. • Disconnect and inspect the DDM (driver door module) connector(s). • Repair: <ul style="list-style-type: none"> • corrosion (install new connector or terminals – clean module pins) • damaged or bent pins – install new terminals/pins • pushed-out pins – install new pins as necessary • Reconnect the DDM (driver door module) connector(s). Make sure they seat and latch correctly. • Operate the system and determine if the concern is still present. 	
Is the concern still present?	
Yes	<p>CHECK OASIS (Online Automotive Service Information System) for any applicable service articles: TSB (Technical Service Bulletin) , GSB (General Service Bulletin) , SSM (special service message) or FSA (Field Service Action) . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new DDM (driver door module) .</p> <p>REFER to: Driver Door Module (DDM) (419-10 Multifunction Electronic Modules, Removal and Installation).</p>
No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues.

PINPOINT TEST N : U0200

Normal Operation and Fault Conditions

If the PCM (powertrain control module) does not receive messages from other modules within a certain time frame the PCM (powertrain control module) sets a DTC (diagnostic trouble code) for lost communication.

DTC Fault Trigger Conditions

N3 PERFORM PDM (PASSENGER DOOR MODULE) SELF-TEST

- Using a diagnostic scan tool, perform a PDM (passenger door module) self-test.

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to: Locks, Latches and Entry Systems (501-14 Handles, Locks, Latches and Entry Systems, Diagnosis and Testing).
No	GO to N4

N4 CHECK THE GWM (GATEWAY MODULE A) DIAGNOSTIC TROUBLE CODES (DTCs)

- Using a diagnostic scan tool, retrieve the GWM (gateway module A) Diagnostic Trouble Codes (DTCs).

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to: Controller Area Network (CAN) Module Communications Network (418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).
No	GO to N5

N5 PERFORM THE PCM (POWERTRAIN CONTROL MODULE) SELF-TEST

- Using a diagnostic scan tool, perform the PCM (powertrain control module) self-test.

Are any non-network Diagnostic Trouble Codes (DTCs) present?

Yes	REFER to PCM DTC Chart in this section.
No	GO to N6

N6 RECHECK THE PCM (POWERTRAIN CONTROL MODULE) DIAGNOSTIC TROUBLE CODES (DTCs)

NOTE

No	The system is operating correctly at this time. The concern may have been due to incorrect parts replacement procedures or incorrect module configuration.
N8 CHECK FOR CORRECT PDM (PASSENGER DOOR MODULE) OPERATION	
<ul style="list-style-type: none"> • Ignition OFF. • Disconnect and inspect the PDM (passenger door module) connector(s). • Repair: <ul style="list-style-type: none"> • corrosion (install new connector or terminals – clean module pins) • damaged or bent pins – install new terminals/pins • pushed-out pins – install new pins as necessary • Reconnect the PDM (passenger door module) connector(s). Make sure they seat and latch correctly. • Operate the system and determine if the concern is still present. 	
Is the concern still present?	
Yes	<p>CHECK OASIS (Online Automotive Service Information System) for any applicable service articles: TSB (Technical Service Bulletin) , GSB (General Service Bulletin) , SSM (special service message) or FSA (Field Service Action) . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new PDM (passenger door module) .</p> <p>REFER to: Passenger Door Module (PDM) (419-10 Multifunction Electronic Modules, Removal and Installation).</p>
No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues.

PINPOINT TEST O : U023A

Normal Operation and Fault Conditions

If the PCM (powertrain control module) does not receive messages from other modules within a certain time frame the PCM (powertrain control module) sets a DTC (diagnostic trouble code) for lost communication.

DTC Fault Trigger Conditions

O3 PERFORM IPMA (IMAGE PROCESSING MODULE A) SELF-TEST

- Using a diagnostic scan tool, perform a IPMA (image processing module A) module self-test.

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes

REFER to: [Lane Keeping System](#)(419-07 Lane Keeping System, Diagnosis and Testing).

No

GO to [O4](#)

O4 CHECK THE GWM (GATEWAY MODULE A) DIAGNOSTIC TROUBLE CODES (DTCs)

- Using a diagnostic scan tool, retrieve the GWM (gateway module A) Diagnostic Trouble Codes (DTCs).

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes

REFER to: [Controller Area Network \(CAN\) Module Communications Network](#)(418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).

No

GO to [O5](#)

O5 PERFORM THE PCM (POWERTRAIN CONTROL MODULE) SELF-TEST

- Using a diagnostic scan tool, perform the PCM (powertrain control module) self-test.

Are any non-network Diagnostic Trouble Codes (DTCs) present?

Yes

REFER to PCM DTC Chart in this section.

No

GO to [O6](#)

O6 RECHECK THE PCM (POWERTRAIN CONTROL MODULE) DIAGNOSTIC TROUBLE CODES (DTCs)

NOTE

No	The system is operating correctly at this time. The concern may have been due to incorrect parts replacement procedures or incorrect module configuration.
O8 CHECK FOR CORRECT IPMA (IMAGE PROCESSING MODULE A) OPERATION	
<ul style="list-style-type: none"> • Ignition OFF. • Disconnect and inspect the IPMA (image processing module A) connector(s). • Repair: <ul style="list-style-type: none"> • corrosion (install new connector or terminals – clean module pins) • damaged or bent pins – install new terminals/pins • pushed-out pins – install new pins as necessary • Reconnect the IPMA (image processing module A) connector(s). Make sure they seat and latch correctly. • Operate the system and determine if the concern is still present. 	
Is the concern still present?	
Yes	<p>CHECK OASIS (Online Automotive Service Information System) for any applicable service articles: TSB (Technical Service Bulletin) , GSB (General Service Bulletin) , SSM (special service message) or FSA (Field Service Action) . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new IPMA (image processing module A) .</p> <p>REFER to: Interior Rear View Mirror (501-09 Rear View Mirrors, Removal and Installation).</p>
No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues.

PINPOINT TEST P : U0253:

Normal Operation and Fault Conditions

If the PCM (powertrain control module) does not receive messages from other modules within a certain time frame the PCM (powertrain control module) sets a DTC (diagnostic trouble code) for lost communication.

DTC Fault Trigger Conditions

P3 PERFORM APIM (SYNC MODULE) MODULE SELF-TEST

- Using a diagnostic scan tool, perform a APIM (SYNC module) self-test.

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to: Information and Entertainment System (415-00 Information and Entertainment System - General Information, Diagnosis and Testing).
No	GO to P4

P4 CHECK THE GWM (GATEWAY MODULE A) DIAGNOSTIC TROUBLE CODES (DTCs)

- Using a diagnostic scan tool, retrieve the BCM (body control module) Diagnostic Trouble Codes (DTCs).

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to: Controller Area Network (CAN) Module Communications Network (418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).
No	GO to P5

P5 PERFORM THE PCM (POWERTRAIN CONTROL MODULE) SELF-TEST

- Using a diagnostic scan tool, perform the PCM (powertrain control module) self-test.

Are any non-network Diagnostic Trouble Codes (DTCs) present?

Yes	REFER to PCM DTC Chart in this section.
No	GO to P6

P6 RECHECK THE PCM (POWERTRAIN CONTROL MODULE) DIAGNOSTIC TROUBLE CODES (DTCs)

NOTE

No	The system is operating correctly at this time. The concern may have been due to incorrect parts replacement procedures or incorrect module configuration.
P8 CHECK FOR CORRECT APIM (SYNC MODULE) OPERATION	
<ul style="list-style-type: none"> • Ignition OFF. • Disconnect and inspect the APIM (SYNC module) connector(s). • Repair: <ul style="list-style-type: none"> • corrosion (install new connector or terminals – clean module pins) • damaged or bent pins – install new terminals/pins • pushed-out pins – install new pins as necessary • Reconnect the APIM (SYNC module) connector(s). Make sure they seat and latch correctly. • Operate the system and determine if the concern is still present. 	
Is the concern still present?	
Yes	<p>CHECK OASIS (Online Automotive Service Information System) for any applicable service articles: TSB (Technical Service Bulletin) , GSB (General Service Bulletin) , SSM (special service message) or FSA (Field Service Action) . If a service article exists for this concern, DISCONTINUE this test and FOLLOW the service article instructions. If no service articles address this concern, INSTALL a new APIM (SYNC module) .</p> <p>REFER to: SYNC Module [APIM] - Vehicles With: 8 Inch Center Display Screen/12 Inch Center Display Screen (415-00 Information and Entertainment System - General Information, Removal and Installation).</p>
No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues.

PINPOINT TEST Q : U0288

Normal Operation and Fault Conditions

If the PCM (powertrain control module) does not receive messages from other modules within a certain time frame the PCM (powertrain control module) sets a DTC (diagnostic trouble code) for lost communication.

DTC Fault Trigger Conditions

No	REFER to: Controller Area Network (CAN) Module Communications Network (418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).
Q3 PERFORM DC/AC CONVERTER CONTROL MODULE SELF-TEST	
<ul style="list-style-type: none"> Using a diagnostic scan tool, perform a DCACA (Direct Current/Alternating Current Converter Module A) self-test. 	
Are any Diagnostic Trouble Codes (DTCs) recorded?	
Yes	<p>REFER to: Direct Current/Alternating Current (DC/AC) Inverter - Vehicles With: 110-120V 400W Pickup Bed Power Outlet(414-05 Voltage Converter/Inverter, Diagnosis and Testing).</p> <p>REFER to: Direct Current/Alternating Current (DC/AC) Inverter - Vehicles With: 110-120V 2kW Pickup Bed Power Outlet (414-05 Voltage Converter/Inverter, Diagnosis and Testing).</p> <p>REFER to: Direct Current/Alternating Current (DC/AC) Inverter - Vehicles With: 110-120V 2.4kW Pickup Bed Power Outlet (414-05 Voltage Converter/Inverter, Diagnosis and Testing).</p> <p>REFER to: Direct Current/Alternating Current (DC/AC) Inverter - Vehicles With: 110-120V 7.2kW Pickup Bed Power Outlet (414-05 Voltage Converter/Inverter, Diagnosis and Testing).</p>
No	GO to Q4
Q4 CHECK THE GWM (GATEWAY MODULE A) DIAGNOSTIC TROUBLE CODES (DTCs)	
<ul style="list-style-type: none"> Using a diagnostic scan tool, retrieve the GWM (gateway module A) Diagnostic Trouble Codes (DTCs). 	
Are any Diagnostic Trouble Codes (DTCs) recorded?	
Yes	REFER to: Controller Area Network (CAN) Module Communications Network (418-00A Controller Area Network (CAN) Module Communications Network, Diagnosis and Testing).
No	GO to Q5
Q5 PERFORM THE PCM (POWERTRAIN CONTROL MODULE) SELF-TEST	