

ENERGI - INTERMITTENT NO START DUE TO DISCHARGED 12 VOLT BATTERY

TSB 15-0028

FORD:

2013 Fusion

ISSUE

Some 2013 Fusion Energi vehicles may exhibit an intermittent no start with a discharged 12 volt battery or intermittent battery draw.

ACTION

Follow the Service Procedure steps to correct this condition.

SERVICE PROCEDURE

1. Disconnect the 12 volt battery. Refer to Workshop Manual (WSM), Section 414-01.
 - a. Do not remove the battery hold-down and breather hose to the battery at this time.
2. Connect the Rotunda Midtronics GR1-190 or GRX-3590 Diagnostic Battery Charger to the vehicle's battery terminal posts only. Battery cables must be removed and no other connections, such as body ground can be in the circuit during testing.
 - a. Select diagnostic fast charge.
 - b. On GR1-190 only - select above 400 km (250 miles) or below 400 km (250 miles) based on vehicle mileage.
 - c. Select battery type Lead Acid.
 - d. Enter cold cranking amp (CCA) rating of 390 CCA.
3. Did the battery pass the load test?
 - a. Yes - allow the battery to fully charge. After charging is complete, reconnect the 12 volt battery. Refer to WSM, Section 414-01, but do not reinstall the driver's side trunk liner around the battery at this time. Proceed to Step 4.
 - b. No - record the failure code. Replace the battery. Refer to WSM, Section 414-01 but do not reinstall the driver's side trunk liner around the battery at this time. Make sure the 12 volt battery is fully charged. Using the Integrated Diagnostic System (IDS) service tool, perform the battery monitoring system (BMS) reset after the new battery is connected. Proceed to Step 4.
4. Inspect the fan wiring from the high voltage battery pack, located at the interior left hand quarter panel, up to the fan motor(s) for damage or chafing on the metal bracket that attaches the battery cage to the vehicle body. Is chafing present? (Figure 1)

NOTE: The information contained 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, Lincoln, or Mercury 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.



Figure 1 - Article 15-0028

- a. Yes - repair the circuits as needed. Refer to Wiring Diagram, Section 5-1. After the repair, wrap affected area with 3M™ Temflex™ Cotton Friction Tape or equivalent to prevent future concerns. Reinstall the driver's side trunk liner and battery access cover and proceed to Step 5.
 - b. b. No - wrap the affected area with 3M™ Temflex™ Cotton Friction Tape or equivalent to prevent future concerns. Reinstall the driver's side trunk liner and battery access cover, and proceed to Step 5.
5. Replace the Telematics Control Unit (TCU) module. Refer to WSM, Section 415-00.

Obtain Locally	
Part Number	Part Description
1755	3M™ Temflex™ Cotton Friction Tape

PART NUMBER	PART NAME
DS7Z-19A387-A	Telematics Control Unit Module
BXT-99RT4-A	Motorcraft® Battery
W715667-S439	D-Pillar Retention Clip (2 Req)
DS7Z-7831012-AA	C-Pillar Right Hand - Dune
DS7Z-7831013-AA	C-Pillar Left Hand - Dune
DS7Z-7831012-AB	C-Pillar Right Hand - Gray
DS7Z-7831013-AB	C-Pillar Left Hand - Gray

OPERATION	DESCRIPTION	TIME
150028A	2013 Fusion Hybrid/Energi: Test And Charge Battery, Inspect And Protect Wire Harness, Replace The TCU (Do Not Use With Any Other Labor Operations)	1.0 Hr.
150028B	2013 Fusion Hybrid/Energi: Test And Replace Battery, Reset BMS, Inspect And Repair Wire Harness, Replace The TCU (Do Not Use With Any Other Labor Operations)	1.1 Hrs.
150028C	2013 Fusion Hybrid/Energi: Test And Charge Battery, Inspect And Protect Wire Harness, Replace The TCU (Do Not Use With Any Other Labor Operations)	1.4 Hrs.
150028D	2013 Fusion Hybrid/Energi: Test And Replace Battery, Reset BMS, Inspect And Repair Wire Harness, Replace The TCU (Do Not Use With Any Other Labor Operations)	1.6 Hrs.

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WARRANTY STATUS:

Eligible Under Provisions Of New Vehicle Limited Warranty Coverage

Warranty/ESP coverage limits/policies/prior approvals are not altered by a TSB. Warranty/ESP coverage limits are determined by the identified causal part and verified using the OASIS part coverage tool.

DEALER CODING

BASIC PART NO.	CONDITION CODE
19A387	42