

Technical Service Bulletin

SUBJECT:

FAILSAFE MODE OCCURS DUE TO FROZEN RELAYS

No: TSB-18-13-003

DATE: December 2018

MODEL: See below

CIRCULATE TO:	[] GENERAL MANAGER	[X] PARTS MANAGER	[X] TECHNICIAN
[X] SERVICE ADVISOR	[X] SERVICE MANAGER	[X] WARRANTY PROCESSOR	[] SALES MANAGER

PURPOSE

In extremely cold conditions, the Check Engine light may illuminate and vehicle speed will not increase (failsafe mode), or the engine does not restart after driving a short distance and stopping the engine for a few minutes. This may be caused by relays in the fuse box not operating due to being frozen.

This TSB instructs dealers to confirm a list of specific DTCs are present along with the symptoms described above. Then once symptoms and DTCs are confirmed, dealers should replace the following relays with anti-freezing types: ETV, A/T (CVT), injector, and starter.

NOTE: If all DTCs are NOT present, the root causes for the symptoms may not be frozen relays.

AFFECTED VEHICLES

- 2008 2017 Lancer
- 2008 2015 Lancer Evolution
- 2010 2014 Lancer Sportback
- 2014 2015, 2017 2019 Mirage
- 2017 2019 Mirage G4
- 2007 2019 Outlander
- 2011 2019 Outlander Sport

NOTE: Vehicles for Canadian market are not affected as these vehicles are already equipped with anti-freezing type relays in production.

REPAIR PROCEDURE

- 1. Confirm the following symptoms are occurring in extremely cold conditions:
 - Check engine light illuminates
 - Vehicle speed will not increase and vehicle enters failsafe mode
 - After driving a short distance and turning engine off for a few minutes, engine will not restart.
- 2. Refer to the "Applicable DTC & Relay Tables" section in this TSB and confirm that <u>ALL</u> DTCs listed have set for the specific vehicle, and replace the relays listed for the specific vehicle.
- 3. If all DTCs listed do NOT appear for the vehicles as listed in the "Applicable DTC & Relay Tables," the root causes may be different than frozen relays. In this case, perform troubleshooting per diagnostic procedures in the applicable Service Manual. Do NOT replace the relays.

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Continued

APPLICABLE DTC & RELAY TABLES

- Lancer (2008-2017)
- Lancer Evolution (2008-2015)
- Lancer Sportback (2010-2014)
- Outlander (2007-2013)
- Outlander Sport (2011-2019)

Confirm that ALL DTCs listed are present for each vehicle as noted below.

RELAY	DTC	SYSTEM	SYMPTOM	
	U0100	ASC, CVT, ETACS, EPS	Engine does not start	
MAIN	C1290	ASC		
F	P1561	EPS		
	U1417	ASC		
ETV	C121C	ASC	Rough idling, no revolution up	
P0657 ENGINE		ENGINE		
	U0101	ASC, ETACS, ENGINE		
A/T (CVT)	C1290	ASC	No acceleration, no shifting	
	P1590	ENGINE		

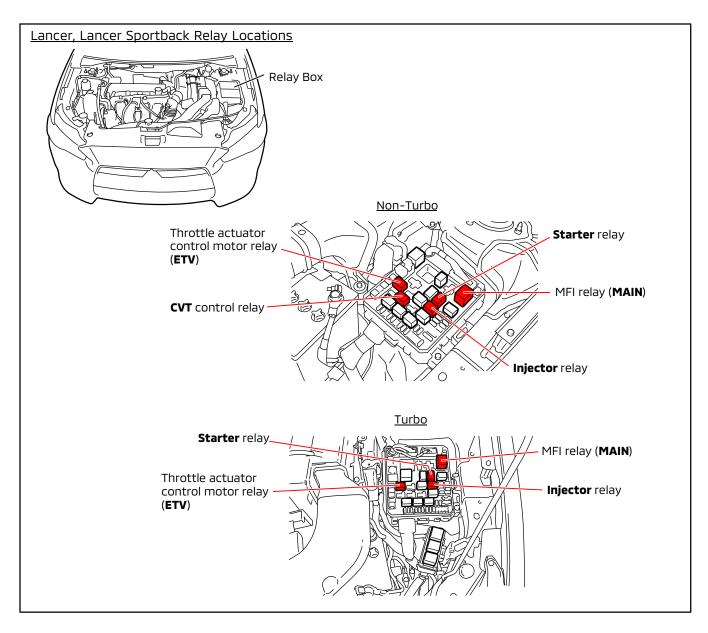
If <u>ALL</u> DTCs listed above are present for the systems and vehicles shown, replace the following relays with the anti-freezing type listed below.

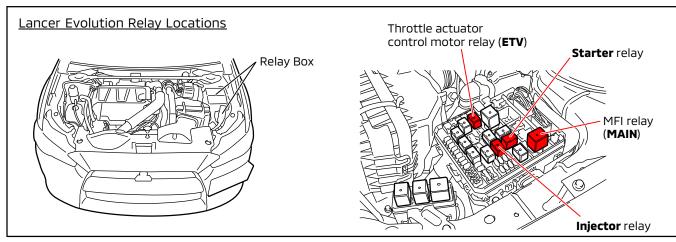
RELAYS TO REPLACE	PART NUMBER (anti-freezing type)	PART NAME	RELAY TYPE	QTY
MAIN	8627A050		Mini ISO	1
ETV	- 8627A049	RELAY, POWER	Micro ISO	1
A/T (CVT)*				1
INJECTOR			1411C1 0 130	1
STARTER				1

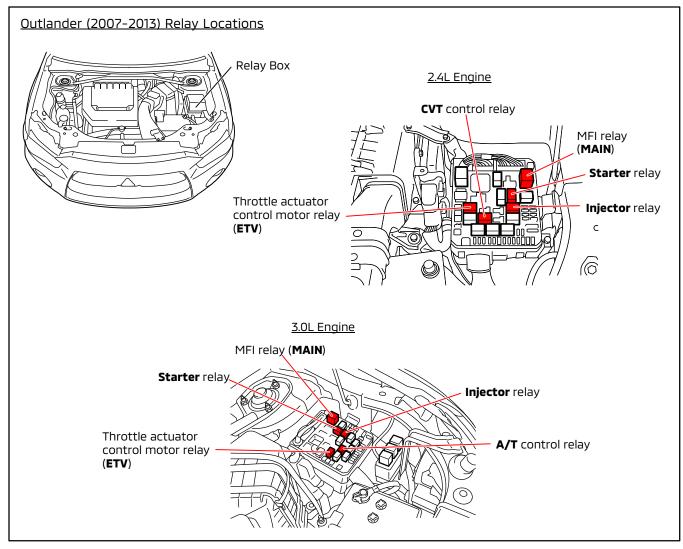
^{*} When the following vehicles are equipped with transmission model F1CJC or W1CJC (CVT8), they do NOT have a CVT relay:

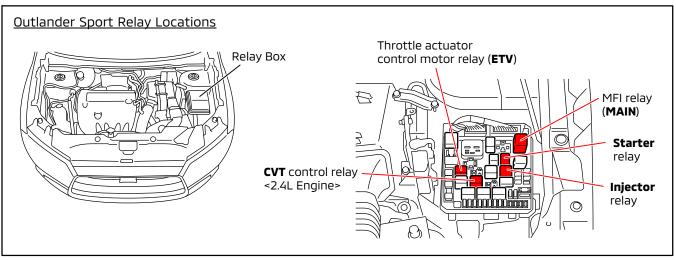
- 2016-2017 Lancer
- 2015-2019 Outlander Sport

NOTE: Refer to the following illustrations for relay locations.









APPLICABLE DTC & RELAY TABLES (continued)

• Outlander (2014 - 2019)

Confirm that <u>ALL</u> DTCs listed are present for <u>each</u> vehicle as noted below.

RELAY	DTC	SYSTEM	SYMPTOM	
	U0100	ASC, CVT, ETACS, EPS, AWC		
	B1731*	ETACS		
MAIN	P1561	EPS	Engine does not start	
IMAIN	C1632	AWC	Engine does not start	
	U15A4	OSS		
	U15A2	033		
	C121C	ASC		
ETV	C1707	ASC	Rough idling, no revolution up	
P0657 ENGINE		ENGINE		
	U0101	ASC, ETACS, ENGINE, AWC		
A/T (CVT)	P1590	ENGINE	No acceleration, no shifting	
	C1633	AWC		

^{*} Equipped with KOS.

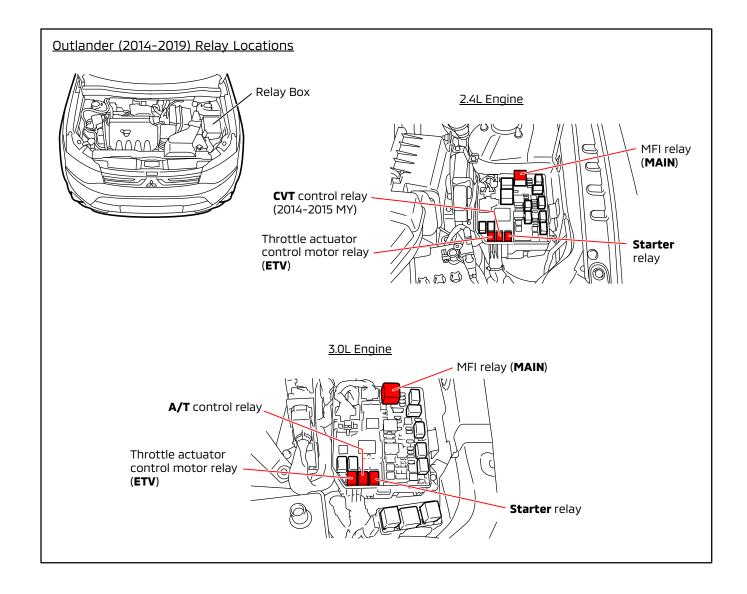
If \underline{ALL} DTCs listed above are present for the systems shown, replace the following relays with the anti-freezing type listed below.

RELAYS TO REPLACE	PART NUMBER (anti-freezing type)	PART NAME	RELAY TYPE	QTY
MAIN	8627A050		Mini ISO	1
ETV				1
A/T (CVT)*	8627A049	RELAY, POWER	Micro ISO	1
STARTER				1

^{*} When the following vehicles are equipped with transmission model F1CJC or W1CJC (CVT8), they do NOT have a CVT relay:

• 2016 - 2019 Outlander

NOTE: Refer to the following illustrations for relay locations.



APPLICABLE DTC & RELAY TABLES (continued)

- Mirage (2014-2019)
- Mirage G4 (2017-2019)

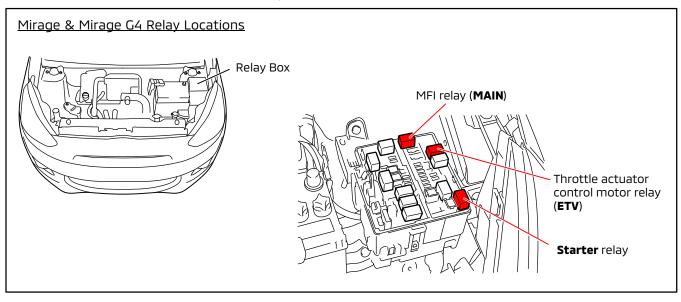
Confirm that ALL DTCs listed are present for each vehicle as noted below.

RELAY	DTC	SYSTEM	SYMPTOM	
	U0100	CVT, EPS, KOS/OSS		
	U1100	ASC, ETACS		
MAIN	C1560	EPS	Engine does not start	
	B1138	NO2 (022		
	B1731	KOS/OSS		
ETV	C1396	ASC	Pough idling no rovolution up	
EIV	P0657 ENGINE		Rough idling, no revolution up	
STARTER	P1612	ENGINE	Engine does not start	
	B1132	KOS/OSS		

If <u>ALL</u> DTCs listed above are present for the systems and vehicles shown, replace the following relays with the anti-freezing type listed below.

RELAYS TO REPLACE	PART NUMBER (anti-freezing type)	PART NAME	RELAY TYPE	QTY
MAIN	8627A050		Mini ISO	1
ETV	8627A049	RELAY, POWER	Micro ISO	1
STARTER	0027A049		14110130	1

NOTE: Refer to illustrations below for relay locations.



PARTS INFORMATION

Order only the Genuine Mitsubishi Parts listed below.

Part Name	Part Number	Quantity
Relay, Power (Micro ISO)	8627A049	*
Relay, Power (Mini ISO)	8627A050	*

^{*} Please refer to the **"Applicable DTC & Relay Tables"** for the specific relays and quantities for each applicable vehicle.

WARRANTY INFORMATION

This bulletin is supplied as technical information only and is not an authorization to repair. If an affected vehicle is reported with the described condition, diagnose the condition, repair as described in this bulletin and submit a normal warranty claim using the following information.

Labor Operation Code	Description	Nature Code	Cause Code	Time Allowance
13840110	Replace Relay(s)	045	590	0.3 hrs

Warranty Coverage: 5/60 Basic Coverage