

Subject

**DTC U010087 & No Start/ Replaced Engine ECU After Jump Starting / Replaced Engine ECU After Jump Starting**

Market

USA

Service Category

Engine/Hybrid System

Section

Engine Control

Applicability

A25A-FXS

**APPLICABLE VEHICLES**

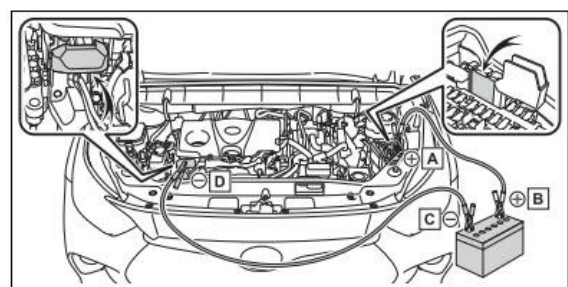
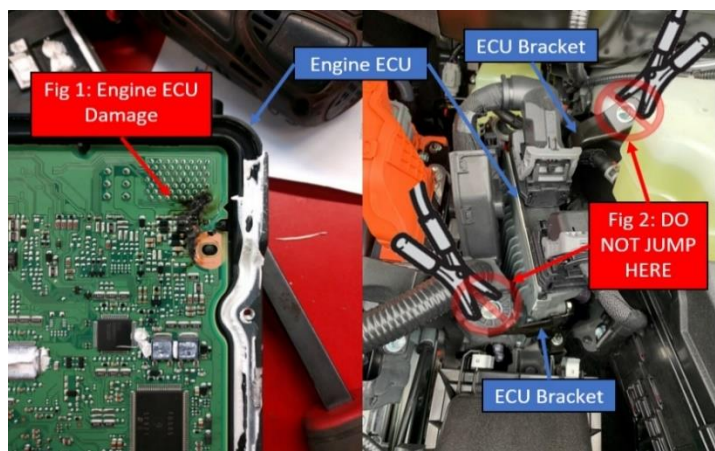
2019-2022	Avalon HV	2023-2024	Crown
2021-2024	Venza HV	2020-2023	Highlander HV
2024	Grand Highlander HV	2021-2024	RAV4 Prime
2019-2024	RAV4 HV	2020-2024	Camry HV
2022-2024	Sienna HV MaaS Package	2021-2024	Sienna HV

**CONDITION**

After jump-starting, the vehicle may experience a no-start condition and multiple DTCs including U010087. Upon investigation, it is found that the engine ECU has been damaged and needs to be replaced (Fig 1). In several cases, it was found that the cause of the ECU damage was improper jump starting. Further investigation found that ECU damage may occur if the negative (ground) cable clamps are attached on or around the engine ECU or ECU mounting bracket (Fig 2).

**RECOMMENDATIONS**

To prevent this condition from occurring, it is recommended that the jumper cables be attached as described in the owner's manual. Below is an example of the correct jump start locations for 22 MY Highlander HV (Fig 3). Please consult the appropriate owners or repair manual to confirm the correct jump start location on other models.



- A** Exclusive jump starting terminal (your vehicle)
- B** Positive (+) battery terminal (second vehicle)
- C** Negative (-) battery terminal (second vehicle)
- D** Solid, stationary, unpainted metallic point away from the exclusive jump starting terminal and any moving parts as shown in the illustration

**LINK REFERENCES**

This Tech Tip does not contain any link references

