

Toyota Integration Relay Failure

Integration Relay Failure Caused From Service Repair Model: Camry ASV50, AVV50 Aurion GSV50

This Technical service bulletin is to advise you of the fault, cause, remedy and counter measure for the potential failure of the integration relay.

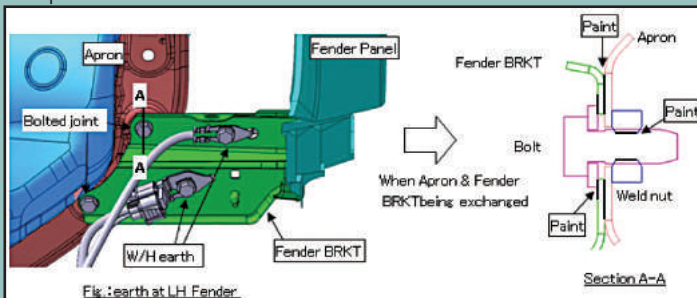
Fault

Customer complains of abnormal electrical system function, including one or more of the following concerns:

1. Headlights staying on.
2. Radiator fan always staying on.
3. Battery going flat.

Cause

Investigations initially found the integration relay had over heated and failed. Further investigations traced the cause of the overheating to a poor earth point to the integration relay. This poor earth was caused by paint between the fender bracket and apron, after body repairs had been carried out. Ref picture below.



NOTE: Such a failure after body repairs have been done is not a warranty item.

Remedy

Remove the apron and inspect mounting locations both front and back. The mounting areas should be free of paint, tape etc. The mounting areas should be bare metal.

The back of the bracket has captive nuts, ensure the threads in the nuts are free of paint.

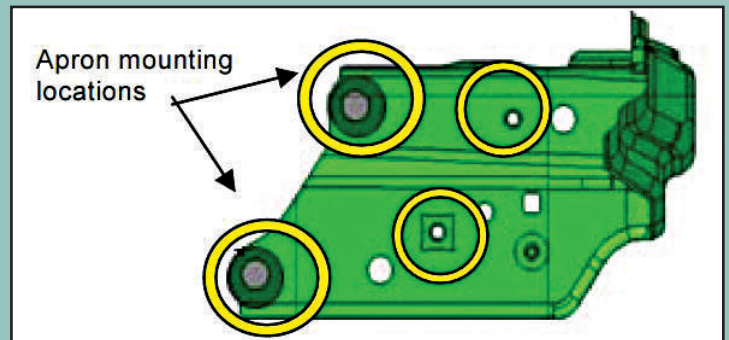
Ensure that the bracket surfaces where the earth bolt and washer make contact are cleaned back to bare metal to achieve a proper earth.

Circled areas are the critical bolt mounting areas. (see illustration top of next column)

Service Hint

Current vehicles feature high performance, low voltage, electronically controlled electrical systems which can be easily damaged if the specified repair procedures are not followed:

1. Turn off all electrical systems before any electrical work



including jump starting. This includes ignition switch, climate control, lights, audio etc.

2. Before performing any electrical work on electronic components, connectors, wiring, earth points or related systems, disconnect the cable from the negative battery terminal.

Note:

After turning the ignition switch off wait at least 90 seconds before disconnecting the negative battery terminal. This allows the SRS back-up power source to deactivate. Also if the vehicle is fitted with a navigation system this allows time for the navigation receiver to record various types of memories and settings.

Counter Measure

While this has not been an issue from factory. For the purpose of quality assurance, from the start of the new model production the L/H front side panel bracket and apron have been given additional masking added to keep the surface area free of paint.

