## Progress Reports for Recall# R15/070

20/12/2016

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<th>Period of Report</th>
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Make: HOLDEN
Model: COLORADO
Variant: RG & 7
Model years, from: 2014 to 2015

Short Description:

Date range: 4 SEPTEMBER 2013 - 21 JANUARY 2015
VIN ranges:
Invest Code: components
Veh. Code: off-road pass car

Defect: The Alternator B+ Cable (used to carry electric current from the Alternator to charge the vehicle battery) may have been assembled in contact with a steel bracket at the battery tray.

Consequences: Dynamic movements of the engine may cause the insulation on the cable to wear, resulting in a potential for an electrical arc to develop or fire.

Corrective action: Re-route the alternator electrical cable.

Was Rectification OK? ☑
O/S VIN List:
Product Safety Recalls Australia

GM Holden Ltd—RG Colorado & RG Colorado 7

PRA number: 2015/14657
Date published: 23rd April 2015

Product Information

Product description
2014 & 2015 RG Colorado Crew Cab, Single Cab, Space Cab, and RG Colorado 7 SUV

Identifying features
MY2014 to MY2015 Holden RG Colorado & RG Colorado 7
• Affected Build Range is from MMU145DK0EH600244 to MMU156FK0FH616228
• Affected Production Dates: 04 SEP 2013 to 21 JAN 2015

What are the defects?
The Alternator B+ Electrical Cable may have been assembled in contact with a steel bracket at the battery tray. Under certain driving conditions the insulation on the cable may wear, resulting in the potential for an electrical short circuit to develop between the cable and the bracket.

What are the hazards?
If the defect occurs, there is a risk that the cable insulation may melt or catch fire, which may pose a risk of injury to the vehicle occupant(s) and other road users.

Where the product was sold
• Nationally

Traders who sold this product
All Holden dealers nationally

Supplier
GM Holden Ltd

What should consumers do?
Holden will write to all affected customers to notify them of the required action.
L150233-ZPSR

July 22
2015

Alternator Cable Contacts Battery Tray - Stop Delivery and Safety Recall

STOP DELIVERY VEHICLE HOLD AND SAFETY RECALL

Update 22/07/15 - This bulletin supersedes all previous versions.

A new large “C” Clip P/No 52110461 is now available to replace the cable ties. Photos and steps have been updated to show the installation of the new C clip. Warranty contact information has been updated.

NOTE: Vehicles that have already been reworked using cable ties around the HVAC suction hose do NOT need to be reworked again.

The battery cable may contact a bracket on the battery tray which may result in damage to the cable and possible fire damage.

Holden is advising Dealers to carry out an inspection of the battery cable near the battery tray, adjust the tray bracket and apply retaining devised to the cable to ensure correct routing.

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Affected vehicles

<table>
<thead>
<tr>
<th>Model</th>
<th>Affected Vehicle Confirmation</th>
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</thead>
<tbody>
<tr>
<td>RG</td>
<td>Vehicles will progressively be flagged in GWM. Refer DL 29/15.</td>
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</table>

Customer Notification Information

Customer notification letters were sent on the 29/4/15

Parts Information

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<th>Part Number</th>
<th>Description</th>
<th>Qty</th>
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<tr>
<td>52100239</td>
<td>Small C Clip</td>
<td>1 (not needed for all vehicles)</td>
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<tr>
<td>52110461</td>
<td>Large C Clip</td>
<td>1 Order from HSPO</td>
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</table>

Special Tools Information

No special tools are required.
Rework Completion Information

All Reworked vehicles must have a "Vehicle Service History" label applied to the outer edge on the left-hand side of the glove box and identified by an 'X' in the A-4 co-ordinate specifically for the Alternator Cable Recall.

<table>
<thead>
<tr>
<th>Stock Number</th>
<th>Description</th>
<th>Quantity per Pack</th>
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<tbody>
<tr>
<td>SD 28177</td>
<td>Vehicle Service History Label</td>
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Warranty Transaction Information

<table>
<thead>
<tr>
<th>Warranty Claim Information</th>
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<tbody>
<tr>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>Labour Operation Code:</td>
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<tr>
<td>Base Labour Hours:</td>
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</table>

Parts Return Information

Parts replacement is not required unless the cable is damaged. Any cable that is replaced should be destroyed by cutting the cable in half. Parts should be retained after being destroyed until disposal is indicated on the scrapage report.

Holden Contact Information

General Rework Enquiries - TAC Plus Via Portal
Technical Enquiries – Refer DL WD 11-15 – Changes to Holden Warranty Structure
Warranty Enquiries – Refer DL WD 11-15 – Changes to Holden Warranty Structure
Appendix A – Draft Customer Letter

Safety Recall Campaign for your Holden Vehicle

Campaign No: L-150233-ZPSR
Description: RG Colorado & Colorado 7 – Alternator B+ Cable Routing
Date of Issue: 29th April, 2015

Dear Valued Customer,

The purpose of this letter is to notify you that Holden is initiating a vehicle safety recall on certain RG Colorado & Colorado 7. Your vehicle is included in this program and this letter outlines what action you will be required to take to ensure your vehicle is corrected.

Summary:

- At this time, you are not required to visit a Holden Dealership.

- The issue relates to the routing of an alternator electrical cable which will need to be inspected.

- Holden is currently procuring the parts for this recall. We expect these parts to be available beginning in June 2015 and will contact you when this occurs.

- In the interim, Holden requests that you read the information outlined below.

What is this program regarding?

An issue has been identified whereby an electrical cable attached to the alternator may contact a steel bracket on the battery tray.

Under certain driving conditions, the insulation on the cable may wear on the steel bracket, resulting in a potential short circuit between the cable and the bracket.

Should this short circuit develop, there is a very small risk that the cable insulation may experience melting or potentially catch fire.

What action is Holden taking?

Holden is now contacting all concerned customers to notify them of this recall program.

Holden is currently procuring the parts for this recall. We expect these parts to be available beginning in June 2015 and we will contact you when this occurs.
Will there be a charge?
Absolutely not. This recall program will ensure the correct operation of your vehicle and provide you with peace of mind. This work will be completed free of charge by your preferred Holden Dealer.

What work will take place on my vehicle?
Your Holden dealer will inspect the alternator cable, add retaining clips to retain the cable away from the bracket and adjust the bracket position.

In the unlikely event that the insulation layers of the alternator cable are found to exhibit a certain amount of wear, the alternator cable will be replaced free-of-charge.

Do you recommend I refrain from driving my vehicle?
No, the likelihood of this condition occurring is very low. If however, you do notice any abnormal changes in vehicle performance and / or the illumination of any warning lamps on the instrument cluster, please contact your Holden dealer at your earliest convenience.

How can I get in contact with my preferred Holden Dealer?
You can find contact information for all Holden Dealers on our website. Simply go to www.holden.com.au/dealerlocator and perform a search using our convenient locator tool.

I would like to speak to someone regarding this letter.
Should you have any further questions or concerns regarding this letter, please contact your nearest Holden Dealer or call Holden Customer Care on 1800 632 826.

Holden Customer Care is available from 8am to 7pm EST Monday to Friday, and 9am to 1pm EST Saturdays, except National Public Holidays.

At Holden, we truly want to ensure that your Holden vehicle performs to the highest possible standards. We thank you for your cooperation with this request.

Yours Sincerely,
Appendix B – Technical Procedure

1. Disconnect battery negative and positive terminals.
2. Remove the upper battery retainer by unscrewing the 3 bolts as shown by arrows (ref fig 1).

![Figure 1](image1)

3. Remove battery lower retainer by unscrewing the 1 bolt as shown in by arrow (ref fig 2).

![Figure 2](image2)

4. Carefully remove the battery from the vehicle.
5. Bend the battery tray bracket **FORWARD** by pushing toward the **front** of vehicle until bracket is touching the plastic battery tray (ref fig 3).
6. Check the alternator B+ cable for any signs of wear or damage to the convoluted tube and cable insulation, as per the examples in figure 4.

Figure 4

- If the harness appears damaged, inspect to determine if the copper strands are visible or not. If the copper strands are visible, order a replacement battery positive cable assembly and fit to the vehicle, observing the new routing outlined in the following steps.

- If the copper strands are not visible but damage is present on the insulation, then repair by wrapping with a good quality insulation tape then cover with a replacement section of convoluted tubing.

- If the harness is not damaged, go to step 7.

7. Inspect alternator B+ harness to see if there is a clip fitted attaching the alternator B+ harness to the injection harness as shown in figure 5. If the clip IS fitted proceed to step 16. If the clip is NOT fitted continue at step 8.

Check if clip is fitted

Figure 5
8. Now identify the large "C" clip that is used to attach the wiring harness to the HVAC suction pipe shown by arrow in (ref fig 6).

Figure 6
9. Starting at the top of the HVAC suction pipe foam sleeve, measure **downward 130mm** and mark this location with a paint marker (ref fig 7).

10. Slide the existing large "C" clip and harness to the 130mm location marked in step 9.
11. From the corner of the battery tray, measure rearward 45mm along the **injector wiring harness** and mark this point on the injector harness (ref fig 8), this is where the new small C clip will be fitted.
12. Affix the tie strap on the small C clip to the **injector harness** at the position previously marked in step 11 such that the "C" clip portion sits **above** the injector harness (ref fig 9).

Figure 9
13. Starting at the alternator B+ terminal, **measure 150mm** length along the alternator B+ cable and mark with a paint pen (ref fig10).
14. Insert the alternator B+ cable into the new small “C” clip at the paint marked location as shown in figure 11.

NOTE: Ensure there is clearance to the EGR hose clamp, as shown in figure 12.

15. Trim tie strap end, ensuring not to cut harness and not to leave any sharp edges.

![Figure 11](image1)
![Figure 12](image2)
16. Install new large C clip P/no 52110461 to the A/C suction pipe as low as possible (ref fig 13).

Clip P/No 52110461 fitted around the A/C Suction hose

Ensure the clip is installed correctly, this example shows the clip **NOT** clipped together correctly

Figure 13
17. Wrap the cable tie section of the C clip around the alternator harness (Ref Fig 14)
18. Adjust the alternator harness to ensure minimum 15mm clearance between harness and battery tray. Figure 15 shows no clearance, this is **NOT** acceptable.

![Figure 15](image)

This is too close - adjust harness to create 15mm clearance to tray before tightening cable ties.
19. Once the correct clearance is achieved, tighten the cable tie around the alternator harness, this will place the clip aprox 120mm down from the top of the foam sleeve, refer fig 16.
20. Ensure the clip is clipped together correctly and trim the excess length from the cable tie (ref fig 17).

21. Reinstall the battery to the vehicle and torque hold down bolts to 5 Nm.
22. Ensure that there is now **minimum 15mm clearance** between the following components, ref fig 18.
- Alternator B+ Cable and Battery Tray.
- Alternator B+ Cable to Steel Battery Tray Bracket Inboard edge.
- Alternator B+ Cable & EGR Hose Spring Clamp.

![Figure 18](image)

23. Apply a vehicle's history label and mark coordinate A-4.

**POST REWORK INSPECTION**

1. Ensure that all fasteners have been refitted and tensioned to the correct specifications as written in this procedure.
2. Verify all the minimum clearances between the Alternator B+ Cable branch to Battery Cover / Alternator B+ Cable to Battery Tray Bracket have been achieved.
3. Verify that the battery tray bracket (step 5) has been bent correctly and the edge is touching the plastic battery tray.
4. Inspect the general area of repair to ensure no additional contact conditions have been created between wiring harnesses and exposed metal components.
5. **Ensure the Independent Verification Checklist is completed.** This is a mandatory requirement for this recall. As stated in DL 33/15, Independent Verification Checklists may still be used on certain Field Actions, this is one where it is still required.
Appendix C – Mandatory Independent Verification Checklist

AN INDEPENDENT REPAIR INSPECTOR (WORKSHOP FOREMAN OR LEADING HAND) WHO DID NOT PARTICIPATE IN THE REPAIR MUST CONFIRM THE FOLLOWING:

**Mandatory – Attach to the RO**

ISOVIN: _______________ OR REG. No.: ____________

RO Number: ____________

Repairing Technicians Name: ________________________

Independent Inspectors Name: ________________________

Date: ________________

**Tick when verified**

☐ Verify the clearances between the Alternator B+ Cable branch to Battery Cover (minimum 15mm) and the Alternator B+ Cable to Battery Tray Bracket (minimum 15mm) have been achieved.

☐ Verify that the battery tray bracket (step 6) has been bent correctly and the edge is touching the plastic battery tray.

☐ Inspect the general area of repair to ensure no additional contact conditions have been created between wiring harnesses and exposed metal components.

Independent Inspectors Signature: ________________________

Ensure this completed Independent inspection CHECKLIST is attached to the RO.

As stated in DL 33/15, Independent Verification Checklists (IVC) may still be used on certain Field Actions. This IVC is mandatory for this recall.
Safety Recall Campaign for your Holden Vehicle

Campaign No: L-150233-ZPSR
Description: RG Colorado & Colorado 7 – Alternator B+ Cable Routing
Date of Issue: 22 June, 2015

Dear Valued Customer,

Previously we wrote to you regarding a recall related to the alternator cable on certain RG Colorado and Colorado 7 vehicles.

This letter is to advise that parts are now available to carry out this recall program on your vehicle. Please note, if this recall has already been completed on your vehicle, please disregard this letter.

What is this program regarding?
An issue has been identified whereby an electrical cable attached to the alternator may contact a steel bracket on the battery tray.

Under certain driving conditions, the insulation on the cable may wear on the steel bracket, resulting in a potential short circuit between the cable and the bracket.

Should this short circuit develop, there is a very small risk that the cable insulation may experience melting or potentially catch fire.

What action is Holden taking?
Holden is now contacting all concerned customers to remind them of this recall program and to request they now make a booking to have this recall completed. Upon presentation of your vehicle, your Holden Dealer will inspect the alternator cable, add retaining clips to retain the cable away from the bracket and adjust the bracket position.

In the unlikely event that the insulation layers of the alternator cable are found to exhibit a certain amount of wear, the alternator cable will be replaced.

Will there be a charge?
Absolutely not. This recall program will ensure the correct operation of your vehicle and provide you with peace of mind. This work will be completed free of charge by your preferred Holden Dealer.
Do you recommend I refrain from driving my vehicle?

No, the likelihood of this condition occurring is very low. If, however, you do notice any abnormal changes in vehicle performance and/or the illumination of any warning lamps on the instrument cluster, please contact your Holden dealer at your earliest convenience.

How can I get in contact with my preferred Holden Dealer?

You can find contact information for all Holden Dealers on our website. Simply go to www.holden.com.au/dealerlocator and perform a search using our convenient locator tool.

I would like to speak to someone regarding this letter.

Should you have any further questions or concerns regarding this letter, please contact your nearest Holden Dealer or call Holden Customer Care on 1800 632 826.

Holden Customer Care is available from 8am to 7pm EST Monday to Friday, and 9am to 1pm EST Saturdays, except National Public Holidays.

At Holden, we truly want to ensure that your Holden vehicle performs to the highest possible standards. We thank you for your cooperation with this request.

Yours Sincerely,

s47F
Good morning

Thank you for your email of 21 April advising GM Holden are conducting a safety related recall in Australia.

The Department of Infrastructure & Regional Development is monitoring this recall in consultation with the Consumer Affairs Division of the Treasury, within the context of the Federal Chamber of Automotive Industries Recall Code.

Therefore request you to provide this Office with the following information as it becomes available:

1. a copy of the service bulletin and any related instructions including the location and affixing of campaign label; and

2. a copy of the letter to be sent to vehicle owners informing them of the vehicle recall campaign;

3. a monthly progress report (by e-mail, fax or letter) by the 14th of each month identifying the recall, the target number of vehicles and the number inspected and/or rectified;

4. advice of any substantial change in the recall campaign or any advertising;

5. advice, including the date, if a second letter is sent to owners who have not responded to the first contact letter;

6. advice, including the date, if a request is made to registering authorities for current ownership details on those vehicles not presented in response to the second letter, to enable campaign re-initiation;

7. advice, including the date, of a subsequent letter (by certified mail) to owners identified in registration searches and;

8. advice, when appropriate of proposed termination of the recall together with the total number of rectified vehicles; the numbers of uncontactable and unco-operative owners; plus full details on remaining uncampaigned vehicles.

Regards
Recalls Officer
Vehicle Safety Standards
Department of Infrastructure and Regional Development
GPO Box 594 Canberra ACT 2601

recalls@infrastructure.gov.au

Think before you print
From: s47F
Sent: Tuesday, 21 April 2015 3:47 PM
To: Recalls
Subject: Holden Recall L150233 - Colorado Alternator Cable
Attachments: L-150233 DOIRD Notification.pdf

Good Afternoon,

Please see attached notification of a Holden recall.

s47F
Good Afternoon,

Please find attached a document informing the Department of Infrastructure and Regional Development of the Vehicle Safety Related Campaign L-150233.

Regards,
RE: SAFETY RELATED CAMPAIGN L-150233

Description of Defect:
The Alternator B+ Cable (used to carry electric current from the Alternator to charge the vehicle battery) may have been assembled in contact with a steel bracket at the battery tray.

Under certain driving conditions, dynamic movements of the engine may cause the insulation on the cable to wear, resulting in a potential for an electrical arc to develop between the cable and the bracket.

Consequence:
Should an arc of sufficient power develop, there is a risk that the cable insulation may experience melting or potentially catch fire, which may pose a risk of injury to the vehicle occupant(s) and other road users.

Vehicles Affected:
- MY2014 to MY2015 Holden RG Colorado & RG Colorado 7
  - Affected Build Range is from: MMU145DK0EH600244 to MMU156FK0FH616228
  - Affected Production Dates: 04 SEP 2013 to 21 JAN 2015

Total affected vehicle population: 26,254.
Campaign Action

Customers will be notified in writing to present their vehicle to a Holden dealership of their choice to have the routing of the Alternator B+ Cable inspected and rectified.

Owner Notification

In the week ending May 1st 2015, a notification letter will be sent to customers advising them that a safety recall has been announced.

Once the necessary replacement parts have been procured from the global supply chain, customers will receive a second letter inviting them to present their vehicle to a Holden dealership of their choice to have the Alternator B+ Cable inspected. General Motors is currently working through a parts delivery schedule and customers will be advised parts availability as soon as possible.

This recall will be advertised. In accordance with the FCAI “Code of Practice for the Conduct of an Automotive Safety Recall”.