



Maserati Technical Bulletin

Date: July 15, 2019
Bulletin Number: MAS001916 – MTB -1912 -
Recall 386 – Air Bag Control Module
Replacement_US
Supersedes: N/A
Section: Compliance

MASERATI

Model Type: GranTurismo & GranCabrio (M145)

Model Years: 2015, 2016, 2017 and 2018

Subject: Vehicle Safety Recall Campaign 386, Air Bag Control Module replacement

NOTE: Some vehicles above may have been identified as not involved in this recall and therefore have been excluded from this recall.

NOTE: Before starting this procedure, you MUST read these instructions carefully and completely.

MASERATI SAFETY RECALL NOTIFICATION

PERFORM THE PROCEDURE OUTLINED IN THIS TECHNICAL BULLETIN ON ALL AFFECTED VEHICLES BEFORE CUSTOMER DELIVERY OR THE NEXT TIME THE CAR IS IN THE SHOP FOR MAINTENANCE OR REPAIRS.

Maserati dealers must ensure recalls are completed after having been notified by Maserati North America, Inc. (MNA) that a safety-related defect or noncompliance exists in any motor vehicle or item of replacement equipment in the dealer's possession at the time of notification. In MNA's case, this notification would typically be made by the issuance of a recall notification in the form of a Technical Bulletin.

Some of the involved vehicles may be in dealer new vehicle inventory. The National Traffic and Motor Vehicle Safety Act of 1966, as amended (or in the case of Canadian vehicles, Motor Vehicle Safety Act S.C. 1993, as amended), requires you to complete this recall service on these vehicles before retail delivery. This means that dealers cannot legally deliver new motor vehicles or new items of replacement equipment to consumers with an open recall.

Dealers should also consider this requirement to apply to used vehicle inventory and should perform this recall on vehicles in for service. This also pertains to vehicles in the Certified Pre-Owned program, and to items of replacement equipment.

Finally, MNA dealers should not sell or use parts that have been recalled by MNA. Please follow the specific instructions provided by MNA on the return or disposition of the parts.

Description of Vehicle Safety Recall 386

Maserati S.p.A. and MNA have determined that the above described vehicles were manufactured with an Air Bag Control Module (Fig.1) that may contain a voltage supply capacitor that was improperly manufactured. If the voltage supply capacitor fails, the air bag may inadvertently deploy or not deploy at all.

Out of an abundance of caution, Maserati has decided to initiate this Voluntary Safety Recall #386 to replace the Air Bag Control Module with a new Module.



Fig.1

This repair procedure will be performed free of charge to the customer.

Which Vehicles Are Affected

Please refer to the VIN List in ModisCS+ for the affected vehicles in the U.S. and Canada.

Vehicle Remedy Information

1. Check that the vehicle is included in this Recall Campaign, and that the repair has not been previously performed.
2. Replace the Air Bag Control Module as shown in:
Attachment "A" for Model Years 2015, 2016 and 2017 vehicles
Attachment "B" for Model Year 2018 vehicles
3. Initialization Procedures for New Airbag Control Modules.
Attachment "C" for all vehicle involved in this Safety Recall
4. The recall procedure is now complete.

Parts Needed For The Recall

For this Recall Campaign the Air Bag Control Module must be ordered with a "PHD" from the Maserati Parts Dept.

P/N: 319505 GranCabrio (Convertible vehicles)

P/N: 304783 GranTurismo (Coup vehicles)

OPERATING PROCEDURES

1. Disconnect the battery.
NOTE: Before disconnecting the battery, lower the front and rear door windows a few centimeters then set the "KIN" to the "OFF" position.
2. For 2015, 2016 and 2017 Model year vehicles, follow the procedures in Attachment "A" and Attachment "C".
For Model Year 2018 vehicles, follow the procedures in Attachment "B" and Attachment "C".

Entering A Warranty Claim

Warranty Information:

- Campaign Number.....386
- Cost Code.....24
- Defect Code.....063
- Component code.....7.00.003
- Labor Operation for Model Year 18.....7.00.003.9 (3.75h)
- Labor Operation for Model Years 16 and 17.....7.00.003.1 (1.65h)
- Component Part Number.....See parts section

Attachment "A"

2015, 2016 and 2017 Model Year vehicles

1. Disconnect the battery.
2. Remove the central fixing plate on the center console as shown below and in Section 09.51.084 of the Workshop Manual.
 - a. Remove the two pressure-fitted side panels (Fig.1 and Fig.2).



Fig.1



Fig.2

- b. Lift and remove the rubber base from both cup holders (Fig.3) and remove the 2 fastening screws (Fig.4)



Fig.3



Fig.4

- c. Remove the fastening screw above the power outlet (Fig.5).



Fig.5



Fig.6

- d. Working from the left side, push the gear selector display upward, unhook the electrical connector, remove the display unit, then remove the screw below it that secures the center console to the mounting bracket (Fig.6).

- e. Pull the knob off the gearshift lever (Fig.7)



Fig.7



Fig.8

- f. Lift the front panel on the center console, remove the electrical connectors then remove the panel (Fig.8).

3. Remove the center console side covering on both sides as shown below (Fig.9), and in Section 09.51.000 2 of the Workshop Manual.

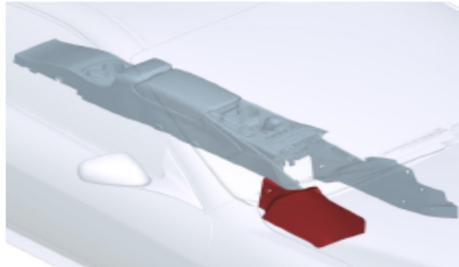


Fig.9

4. With the appropriate tools, remove the radio (Fig.10).



Fig.10



Fig.11

5. Remove (pull) the aesthetic moulding from the center of the dashboard (Fig.11).
6. Remove the screws from the center of the dashboard (Fig.12).



Fig.12



Fig.13

7. Open the glove compartment and remove the upper securing screws (Fig.13).
8. Remove the glove compartment side screws (Fig.14).



Fig.14



Fig.15

9. Lower the glove compartment and remove the housing side screws (Fig.15).

10. Remove the lower central dashboard screws (Fig.16).



Fig.16



Fig.17

11. Remove the 2 screws inside the radio compartment (Fig.17) then gently, pull back the central dashboard trim panel (Fig.18).



Fig.18

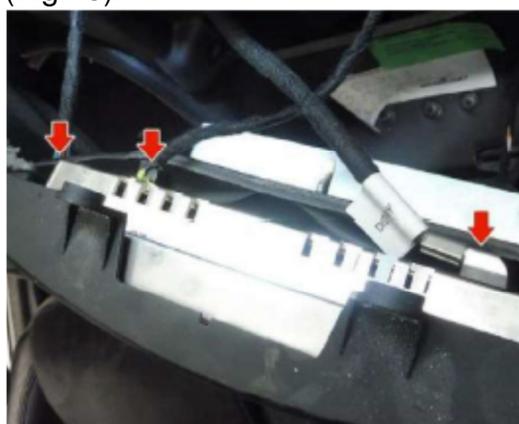


Fig.19

12. While supporting the central dashboard trim panel, disconnect the wire connectors (Fig.19 and Fig.20) and then remove the panel.

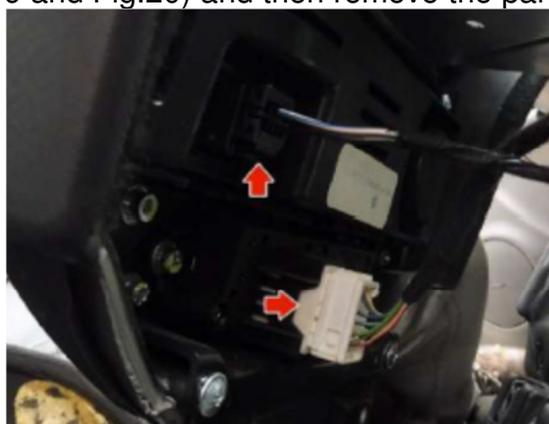


Fig.20

13. Working through area's A ,B and C (Fig.21), unhook the electrical connectors, unscrew the fastening nuts and remove the AIRBAG ECU (Fig.22).



Fig.21



Fig.22

14. Install the new airbag control module. Torque the securing fasteners to 10 N-m (7.4ft-lbf).
20. Reinstall all of the parts you have removed following the removal procedures in reverse order.
21. Perform a vehicle Proxy Alignment for the new Airbag ECU.
22. Perform the Airbag Control Module Initialization Procedure as described in Attachment "C".

Attachment “B”

2018 Model Year vehicles

1. Disconnect the battery.
2. Remove the center console as shown below and in Section 09.51.001 of the Workshop Manual.
 - a. Remove the rear seat cushions (bottoms) by removing the 2 securing bolts on each side (Fig.1) and then lifting up and out with the cushion (Fig.2).



Fig.1



Fig.2

- b. Remove the rear trim panel caps (Fig.3), remove the securing screws and then remove the trim panel (Fig.4).



Fig.3



Fig.4

c. Remove the screws from the cup holder trim panel (Fig.5)

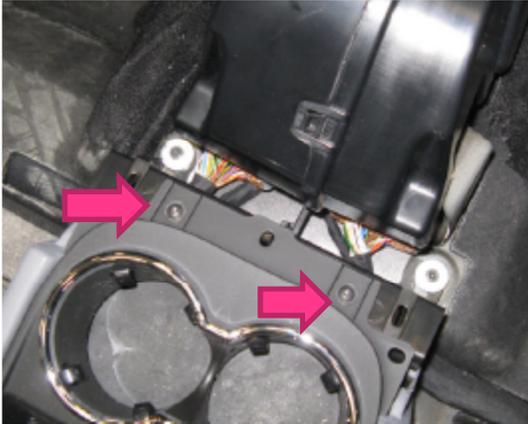


Fig.5

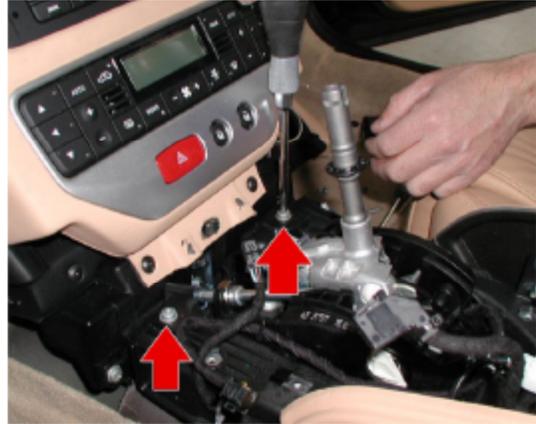


Fig.6

d. Remove the screws located on the front of the trim panel (Fig.6)

e. Remove the cover plate (Fig.7) on the rear of the trim panel. Remove the screws from underneath and from the bottom of the cup holders (Fig.8)



Fig.7

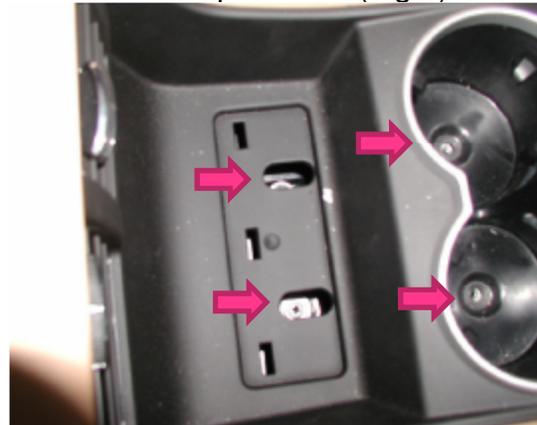


Fig.8

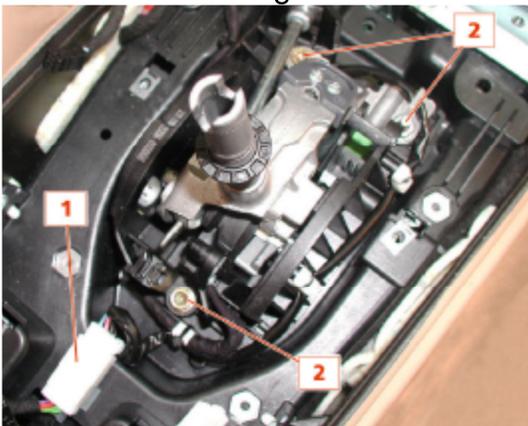


Fig.9



Fig.10

g. Unhook the wire connector (1) and remove the screws (2) from the shifter

(Fig.9). Move the lever over to the side (Fig.10).

- h. With the front seats fully forward, remove the center console caps and securing screws at the rear (Fig.11)



Fig.11



Fig.12

- i. Move the seats forward and remove the caps and securing screws from the center of the console (Fig.12).
- j. Remove the caps and screws then remove the carpet side panels (Fig.13).



Fig.13

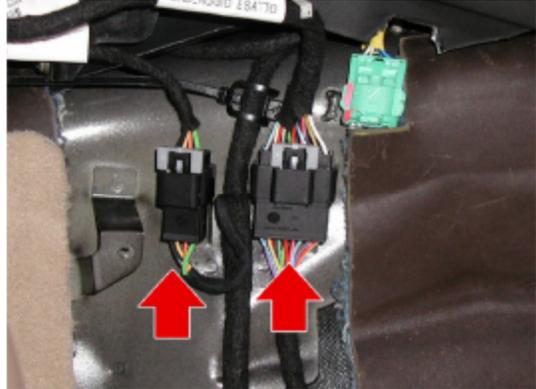


Fig.14

- k. Disconnect the 2 wire connectors (Fig.14) then remove the center console (Fig.15)



- Using a Teflon wedge, carefully remove the trim from the bottom of the MTC (Fig.16) and then remove the securing bolts (Fig.17)



Fig.16

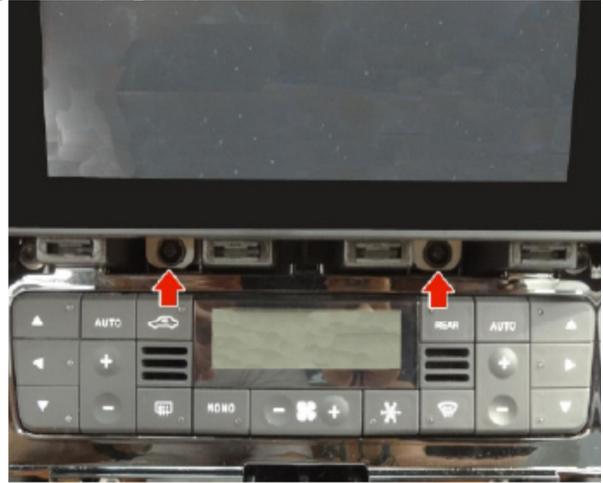


Fig.17

- Pull out the MTC (Fig.18) and disconnect the wire connectors (Fig.19)



Fig.18



Fig.19

- Remove the a/c control panel (Fig.20) and the wire connector (Fig.21)

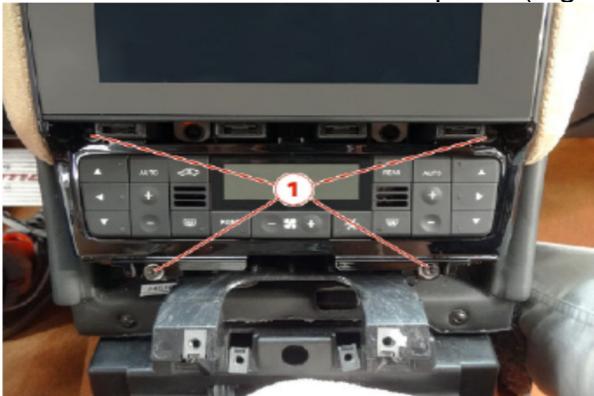


Fig.20



Fig.21

6. Remove (pull) the aesthetic moulding from the center of the dashboard (Fig.21).



Fig.21



Fig.22

7. Open the glove box and remove the securing screws (Fig.22).

8. Remove the glove box frame screws (Fig.23).



Fig.23

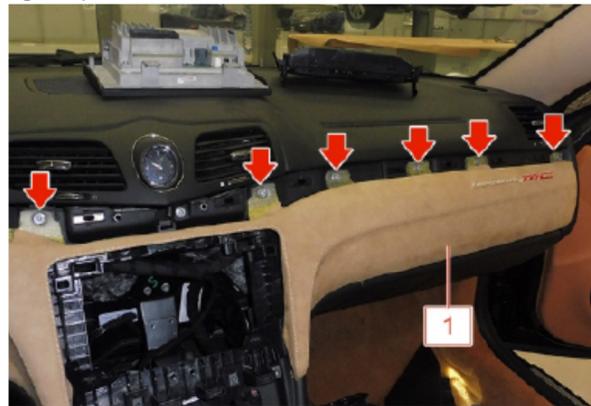


Fig.24

9. Remove the central dash trim panel (Fig.24)

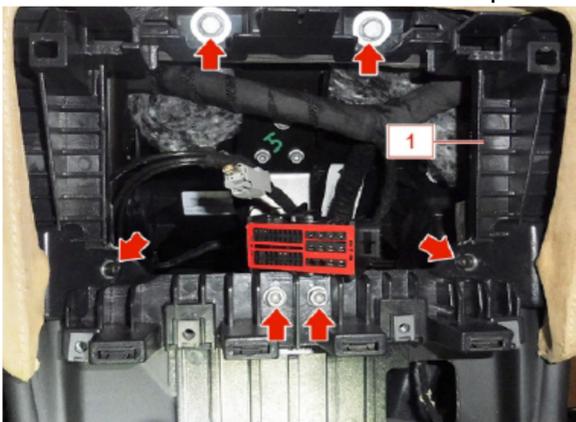


Fig.25



Fig.26

10. Remove the MTC mounting frame (Fig.25) and remove the bracket (Fig.26).

11. Remove the central dash lower support bracket (Fig.27)

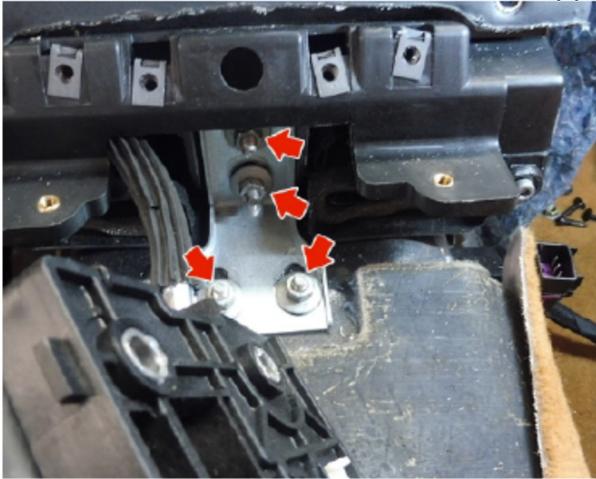


Fig.27



Fig.28

12. Slide the bracket mount over to the side to gain access to the air bag ecu mounting nuts as shown in Fig.28.

13. Remove the lower r/s mounting bolt (Fig.29).



Fig.29



Fig.30

14. Slide the r/s air duct union down away from the housing (Fig.30).

15. Slide the l/s air duct union down away from the housing (Fig.31).



Fig.31

16. Unlock the safety locks and disconnect the wire connectors from the air bag control unit (Fig.32).



Fig.32



Fig.33

17. Remove the lower mounting screws from the air bag control unit (Fig.33).
18. Remove the upper mounting nuts from the air bag control unit (Fig.33).
19. Install the new air bag control unit by following the instructions in reverse order.
20. Tighten the fastening screws to a torque of 10 N·m (7.4 ft·lbf)
21. Proceed to the Initialization procedures in Attachment "C" of this bulletin.

Attachment “C”

Initialization Procedures for Installing a New Airbag Module All Vehicles Involved in this Recall

IMPORTANT NOTE: A Proxy Alignment must be performed before beginning the below procedures.

1. When replacing the Airbag Node, it is necessary to carry out the initialization procedure listed below after performing a Proxy Alignment.
2. To perform the initialization procedure it is necessary to disconnect the driver side, passenger side and Side Airbag electric connections located under the front seats.
3. Remove the steering wheel airbag using special tool 900027310. There are two holes behind the steering wheel. Unclip the airbag using the special tool and then disconnect the electrical connectors from the airbag (Fig.1).



Fig.1



Fig.2

4. Disconnect the electric connector of the passenger side Airbag module (Fig.2).



Fig.3

5. Disconnect the electrical connections of the driver and passenger - Side Air Bag Modules located under the front seats (Fig.3).
6. Using the MDEVO, select the vehicle type; in the “CLASS” menu, select “SAFETY” and in the “SYSTEM” menu, select “NAB -AIR BAG NODE - TRW”.

7. Select "CYCLE" in the "TEST" menu.
8. The initialization cycle prompts you to check whether the wiring Compliance label is present or not, and then shows the initial conditions to which the vehicle must be at to continue. **Press the skip test button at the bottom of the screen.**
9. The diagnostic equipment performs the first test on the driver and passenger side airbag. During this phase, the diagnostic equipment must detect faults with both airbags since the connectors are disconnected.
10. Then you are prompted to connect the two connectors of the driver side airbag leaving the Secondary Lock open as shown in Fig.4.

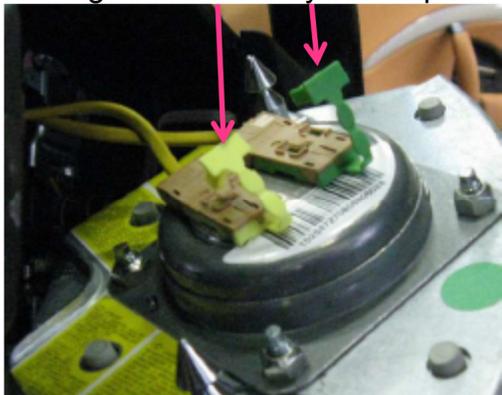


Fig.4

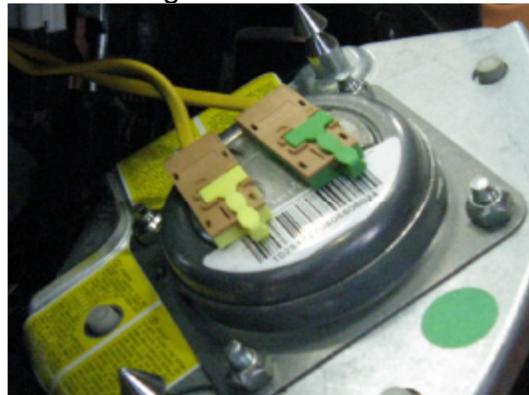


Fig.5

11. The system will now test the two lines of the driver side airbag.
12. If the test of line 1 is successful, you will be prompted to close the Yellow Line 1 Secondary Lock (the Yellow one in Fig's.4 and 5).
13. The same test will be performed on line 2, after which it will be necessary to close the Green Secondary Lock (the Green one in Fig's.4 and 5).
14. After the driver side Airbag diagnosis, reinstall the airbag onto the steering wheel.
15. The system will automatically move to the passenger airbag and it will prompt you to connect the dummy connector, Special Tool p/n: 900028133 (Fig.6) to the passenger airbag wire connector (Fig.7).



Fig.6



Fig.7

16. Once the test on line 1 of the passenger side airbag has been performed, the next screen will prompt you to remove the dummy connector p/n: 900028133 to continue testing Line 2 of the passenger side airbag.
17. Once diagnosis is completed, reconnect the passenger side airbag wiring connector. The system will then automatically start to diagnose the two side airbags: first the driver side and then the passenger side.
18. Next, the system checks for errors concerning the safety belts and the remaining modules.
19. The next screen shows the status of the detected buckle switches: red for not acceptable, green for acceptable status.
20. The check sequence starts from the driver's front side safety belt and then continues with the passenger's side safety belt. During these phases the system will prompt you to fasten the belts to the relevant buckles.
21. After the front belts, the system will try to perform the same diagnosis on the rear pre-tensioner modules. There are no rear pre-tensioners so press the "Skip Test" button on the bottom of the screen.
22. Next, the system checks the passenger side airbag occupant detection system and the airbag system failure warning light status.
23. When the display shows the message "ENDED CYCLE", the initialization procedure has been completed.
24. Restore the vehicle to its original condition by installing the previously removed components and reattaching all of the airbag connections.
25. View and print the report saved by the diagnostic equipment. This report is saved in the dedicated section called "DIAGNOSIS REPORT LIST" which includes all diagnosis operations performed on the vehicle, categorized by Date and Type of diagnosis on the vehicles control units.