

ToAll Lamborghini Dealers and Licensed Service PointFromCustomer Service DepartmentSubjectSoftware update of the Master engine ECU and Slave engine ECUGroup714.9.07Date29.09.2008Pages8

#### Subject

Software update of the Master engine ECU and Slave engine ECU.

Automobili Lamborghini S.p.A.

# Modello

All Gallardo LP 560 Model Year 09 from VIN 9LA6526 to VIN 9LA08105 inclusive.

<u>Attention</u>: As not all vehicles from this VIN range are affected, please carefully check on the Lamborghini Web-portal to verify the VIN-Information and if the vehicle is affected by this Service Campaign before the start of any updating.

# Information to the field

As a result of company's continuous product monitoring, Automobili Lamborghini S.p.A. has found that, in some vehicles, drivability during the downshifting with the select shift transmission might be uncomfortable after an intensive and sport use of the gearbox.

This rework action must be also performed on all vehicles in your stock.

# **Field solution**

Follow the workshop instructions in this document for updating the software of the Master engine ECU and Slave engine ECU.

# **Spare Parts**

None required.

Via Modena,12 I-40019 Sant'Agata Bolognese Tel +39 051 6817 652 Fax +39 051-6817 709

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



#### Warranty Claim data

The warranty reimbursement request for this rework action will be managed by the following standard Warranty Claim procedures.

| Campaign Code:         | L714-A.05.08                                 |
|------------------------|--|
| Campaign Description:  | Software update of the Master engine ECU and |
|                        | Slave engine ECU                             |
| Cost Code:             | 50   |
| <b>Component Code:</b> | CCA0508                                      |
| Trouble Code:          | 220  |
| Labour Code:           | CCA0508100                                   |
| Labour Time:           | 1,5 h  |

Remember to fill all data in the section "Service and Recall Campaign" in the Warranty booklet of the vehicle as shown below.

| Service/Service Richiamo/Rückruf<br>Service/Service Recail/Roppel<br>Servicio Llamada a Taller   | Service/Service Richiamo//Rückruf<br>Service/Service Recail/Ragel<br>Liamada a Taller  |
|--|--|
| Numero/Nummero   | Numero Nammer<br>Namero Namero ,   |
| Data/Datum/Date/Date/Fecha   | Data/Daturr/Date/Fecha   |
| Data riparazione/Reparaturdatum<br>Repair Data/Data de reparation<br>Pacha reparación  | Deta riserazioni/Reparaturdatum<br>Repair Data/Date de réparation  |
| Esequito dal Concessionario / Ausgaführt von der Vertragsweristatt / Done by the Dealer<br>Effectué par le concessionnaire / Effectuado por el Concesionario | Esequilo dal Concessionario / Auspelührt von der Vertragsverfsstatt / Done by the Dealer<br>Effectué par le concessionnaire / Efectuedo par el Concesionario |
| Firma / Unterschrift / Signature / Signature / Firma   | Firma / Unterschrift / Signature / Signature / Firma   |
| Service/Service Richiamo/Rückruf Service/Service Liamada a Taller  | Service/Service Recall/Repol<br>Service/Service Limedia Taller   |
| Numero/Nummer<br>Number/Numéro<br>Número   | Namero/Nummer<br>Namero  |
| Deta/Dotum/Date/Date/Fecha   | Data/Datum/Date/Date/Fecha   |
| Deta isoneoione/Reparaturdatum<br>Repair Data/Date do réparation   | Data riparazione/Reparaturdatum<br>Recuir Zata/Date de réparation<br>Fecha reparación  |
|  |  |



#### **Workshop instructions**

- **1.1** Before performing the software update of the Master engine ECU and Slave Engine ECU, is necessary to download from the Download section of Lamborghini Portal the new version LaRa\_AS\_5.2.0.147 of the software.
- **1.2** Please observe all safety precautions in order to prevent personal injury or damage to the vehicle.
- **1.3** Connect the vehicle to the battery charger in order to mantein a costant voltage supply during programming.
- **1.4** Connect the diagnostic PC at the vehicle using the Basic XS interface (p/n 66095011) with the black cable (p/n 69190206).
- **1.5** Turn the ignition key to the ON position; start the LaRa software and select the Gallardo Coupè LP560-4 MY09. Select the Analysis Mode button (1-Pict.1)



The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



| Pict.2   |  |
|--|--|
| CaRA - [After Sales]<br>Action Function View Options Help  |  |
|  | 🖹 🕖 🤃 01 ENGINE ELECTRONICS I  |
|  |  |
| 🗲 Main menu  |  |
|  | Select Address word  |
|  | 00 Airbag  |
| Automatic mode   | 01 Engine electronics 1  |
| Setup Configuration:   | 02 LOCAT CONTRACTOR OF CONTRAC |
| ECU Identification Read Fault Code Memory File:  | 08 HVAC  |
| Erase Fault Code Memory  | 09 ILM   |
| E-Gear   | 11 Engine electronics II   |
| Learn remote<br>Learn keys   | 16 SMLS  |
| Write to LIE<br>Documentation  | 17 Instrument cluster  |
| ECU check<br>Analysis mode   | 21 G.F.A.  |
|  | 25 Immobilizer   |
|  | 33 SCAR-1001 OBD II  |
|  | 45 Interior alarm  |
|  | 46 ZKE   |
|  | 54 Rear spoiler  |
|  | A A OK Cancel  |
|  |  |
|  |  |
| <u> </u>   |  |
|  |  |
| participation of the second se |  |
| 🔯 Stat.) 🖗 Sta   |  |
| Version 5.1 (Build 143) / 2.17   | Gallardo Coupè LP560-4 MY09 04.08.08 15:41:724   |

# **1.6** Select the 01 Engine Eletronics I ECU (1-Pict.2).

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.



1.7 Select from the File Type window (1-Pict.3) the SGO Data Container (\*.sgo) file; follow the routine C:\Program files\RA Consulting\LaRA\PRG\L140 MY09 ENGINE SGO. Select the folder (2-Pict.3) of File window and select the L140 MY09 ENGINE SGO folder (3-Pict.3). Select the EU folder (4-Pict.3) for all vehicles excluded the cars of USA and Canadian markets or select the USA folder (5-Pict.3) for vehicles of USA and Canadian markets.

| Pict.3  |   |
|---|---|
| G LaRA - [After Sales]<br>Action Election View Onlines  | Help  |
| € • € • €   | 1 ENGINE ELECTRONICS I  |
|   |   |
| 🔶 Main menu   | Analysis mode   |
| Automatic mode  | 32 - Flash programming  |
| Function menu<br>Setup<br>ECU Identification<br>Read Fault Code Memory<br>Ersse Fault Code Memory<br>E-Geer Snap<br>ECU-Check | File type:     SGO Data container (*.sgo)     Elapsed Time:     00:00:00       Configuration:     Configuration:     Configuration:     Configuration:     Configuration: |
| Learn remote<br>Laarn remote  |   |
|   | Select filename   |
|   | Cerca in: 📴 L140 MY09 EINGINE SGO 🕑 🔇 🎓 📼 -   |
|   |   |
|   | Nome file: 4009075520040.sgo / Apri   |
|   | Tipo file: SGO Data container (*.sgo)   |
|   |   |
| Version 5.2 (Build 147) / 2.22  | Age         Stat         Stop           Gallardo Coucê         LP560-4 MY09         10.09.08 12/14/361  |
| start 🖉 🖸 🔞   | Gaitardo Coupe LP560-4 MY09 10.09/08 17/14/35<br>🔊 " 💿 Posta in arrivo 😭 reflash - Messaggio 📄 L140 MY09 ENGI 🎲 LaRA - [After Sal 😰 💆 🕢 🐼 🎧 🚳 🐇 🔍 👔 17.14                 |



**1.8** Select the .sgo file as follows:

- 400907552 \_0040.sgo file (1-Pict.6) for all vehicles excluded the vehicles for the USA and Canadian markets;

-  $400907552\ \_0030.sgo.$  file. for the vehicles for the USA and Canadian markets.

| Punction View Options  | Help             |                            |                       |           | -  | <u>e</u> t   |
|--|------------------|----------------------------|-----------------------|-----------|--|--------------|
| ) 🕡 🖻 · 🗐  | 🐻 🖺 🔂 · 🛙        | ) 🕖 🔱                      | 01 ENGINE EL          | ECTRONICS | Ð  |              |
| R  |                  |                            |                       |           |  | 9            |
| Main menu. 2   |                  |                            | Analysis mode         |           |  |              |
| istic mode   | 4                |                            | 32 - Rash programming |           |  | ).           |
| unction menu<br>Setup<br>ECU Identification<br>Read Fault Code Memory<br>Erase Fault Code Memory | File type: SGO D | ata container (*.sgo).     | e D                   |           | Elapsed Time: 00:00<br>Remaining Time: 00:00 | 0:00<br>0:00 |
| E-Gear Snap<br>ECU-Check<br>Documentation<br>Learn remote  |                  |                            |                       |           |  |              |
|  | Select file      | ename                      | ?                     | ×         |  |              |
|  | Cerca in:        | 🔁 EU                       | 🔽 🧿 🥬 📴 🖽 -           |           |  |              |
| 1  | ☐ 400907         | 5520040.sgo                |                       |           |  |              |
|  | Nome file:       |                            | Apri                  |           |  |              |
|  | Tipo file:       | SGO Data container (*.sgo) | Annulla               |           |  |              |
|  |                  |                            |                       |           |  |              |

**1.9** Start up the communication pushing the icon (2-Pict.6) and push the Start button (3-Pict.6). Wait the complete software update of the Master ECU.



| G LaRA - [After Sales]  | r Hole |                                      | <b>.</b> . |
|---|--------|--------------------------------------|------------|
|   |        | 11 ENGINE ELECTRONICS II             |            |
| 🗲 Main menu   |        |                                      |            |
|   |        | 00 Airbag                            |            |
| Automatic mode<br>Function menu<br>Setup<br>ECU Mentification<br>Read Fault Code Memory |        | 02 E-Gear<br>03 ABS/ESP              |            |
| E-Gaar Snap<br>E-Gaar Snap<br>E-Gu-Check<br>Documentation<br>Learn remote               |        | 08 HVAC<br>09 ILM                    |            |
| <u>Ansiyi i mode</u>  |        | 16 SMLS<br>17 Instrument cluster     |            |
|   |        | 21 G.F.A.<br>25 Immobilizer          |            |
|   |        | 33 Scan-Tool OBD II<br>37 Navigation |            |
|   |        | 45 Interior alarm<br>46 ZKE          |            |
|   |        | 54 Rear spoiler 《<br>計 科 OK Cancel   |            |
|   |        |                                      |            |
| à   |        |                                      |            |
| 17185   | • Read |                                      |            |

**1.10** Perform the same operations described at the points 1.9, 1.10 and 1.11 for update the 11 Engine Eletronics II ECU (1-Pict.7).

- **1.11** Return at main menù, select the Automatic Mode button and erase all the errors present in the vehicle's ECU's (see also the workshop manual istructions 10 90 00).
- **1.12** Finally perform these adjustment:
  - Routine 60 adaptation throttle body;
  - Routine 142 and 144 adaptation of the tumble valves;
  - Routine 199 lambda test

(see also the workshop manual istructions 10 90 00).



Your Area Manager is at full disposal for further information.

Best regards

**Customer Service** 

The information and procedures published below are strictly confidential and intended exclusively for authorized operators and individuals. All copyrights are the property of Automobili Lamborghini S.p.A based on copyright law. The company reserves the right to make updates and modifications. The reprinting, reproduction, forwarding to unauthorized people and/or to third parties and partial or entire translation thereof are prohibited without written authorization from Automobili Lamborghini S.p.A.