



To: All Lamborghini Dealers and Service Points
Dealer Principals and After Sales Manager

From: After Sales Department

Pg: 8

Subject: Service Campaign ref.: L147.A-03.03
Accessory Drive Belt Pulleys

Date: 22/12/2003

Automobili
Lamborghini S.p.A.

Dear Lamborghini Dealer,
Service Campaigns are meant to maintain a high quality level of the product.
Therefore, we have enclosed the necessary instructions in order to carry out the above mentioned Service Campaign.
Please perform the indicated operations whenever one of vehicles listed below is at your dealership for service.

Description:

The Accessory Drive Belt could develop excessive wear because of pulley misalignment.

Vehicles involved:

Lamborghini Murciélago L147

- MY02 from VIN **ZA9BC10__2LA12026** to VIN **ZA9BC10__2LA12331**
- MY03 from VIN **ZA9BC10__3LA12332** to VIN **ZA9BC10__3LA12608**
- MY03 from VIN **ZHWBE16__3LA00610** to VIN **ZHWBE16__3LA00709**

Technical information:

The action refers to Murciélago having the chassis numbers listed above.

• **Solution A)**

Replacement of the Transmission Idle Pulley and the Drive Belt Tensioner Pulley with new components. Please proceed to replace the above mentioned pulleys as explained in the attached procedure : **L147.A-03.03.procedure** .

Via Modena,12
I-40019 Sant'Agata
Bolognese
Phone: +39 051 6817652
Fax: +39 051 6817738



- **Solution B)**

Replacement of the Transmission Idle Pulley, the Drive Belt Tensioner Pulley, and the Power Steering Pump in cases where the drive belt has broken. The power steering pump replacement, procedure **L147.A-06.03.procedure**, is needed in order to avoid any foreign material that may have become embedded in the power steering pump assembly.

Network information:

All Authorized Lamborghini Dealers and Service Points will be informed of this action.

Parts for vehicle – Solution A :

PN 0014004296	Drive belt	1 Each
PN 0012014994	Transmission Drive Pulley	1 Each
PN 0012014995	Drive Belt Tensioner Pulley	1 Each

Parts for vehicle – Solution B :

PN 0014004296	Drive belt	1 Each
PN 0012014994	Transmission Drive Pulley	1 Each
PN 0012014995	Drive Belt Tensioner Pulley	1 Each
PN 0040002374	Power Steering Pump	1 Each

Parts supply:

Lamborghini will send an initial supply to all authorized dealers. Additional parts can be requested utilizing normal spare parts ordering procedures.

Replaced material:

No need to return any parts.

Reimbursement:

Submission of a properly completed Warranty Claim with the following information:

- **For Solution A:**

Problem description:	Service Campaign L147.A-03.03
Cost code:	50
Component code:	17130
Problem code:	220
Labour code:	17108100
Time:	4.5 hours



- **For Solution B:**

Problem description:	Service Campaign L147.A-06.03
Cost code :	50
Component code:	17135
Problem code:	220
Labour code:	17108200
Time:	8.5 hours

For any further information you may need please contact your Area Manager.

Best regards,

A handwritten signature in black ink, appearing to read "Gamberini".

Giorgio Gamberini
After Sales Manager

A handwritten signature in black ink, appearing to read "Michele Capelli".

Michele Capelli
Service Manager



Procedure: L147.A-03.03

Operation: Replacement of the pulleys with the modified ones:

- new transmission idle pulley PN 0012014994
- new belt tensioner PN 0012014995

- 1.1** Before proceeding with the replacement of the pulleys, always please follow the applicable safety instructions. The procedure has to be carried out with a cold engine.

- 1.2** Disassemble the belt as described in the workshop manual, section 10, engine, disassemblies/assemblies, auxiliary drive belt.

The operation can be carried out without removing the engine. Please refer to picture 1

- Loose the alternator adjuster lock screw (4).
- Unscrew completely the lock nut (1) and the alternator adjuster (2) to give the alternator the maximum movement.
- Remove the drive belt tensioner (3) by means of a 15 mm wrench.
- Push on the belt tensioner (3), push the alternator towards the center of the engine and make the belt slide outside the alternator pulley; then push the alternator towards the outside.
- Slide the drive belt outside the power steering pump, the air conditioning system, the water pump and the engine pulleys and then remove the drive belt.

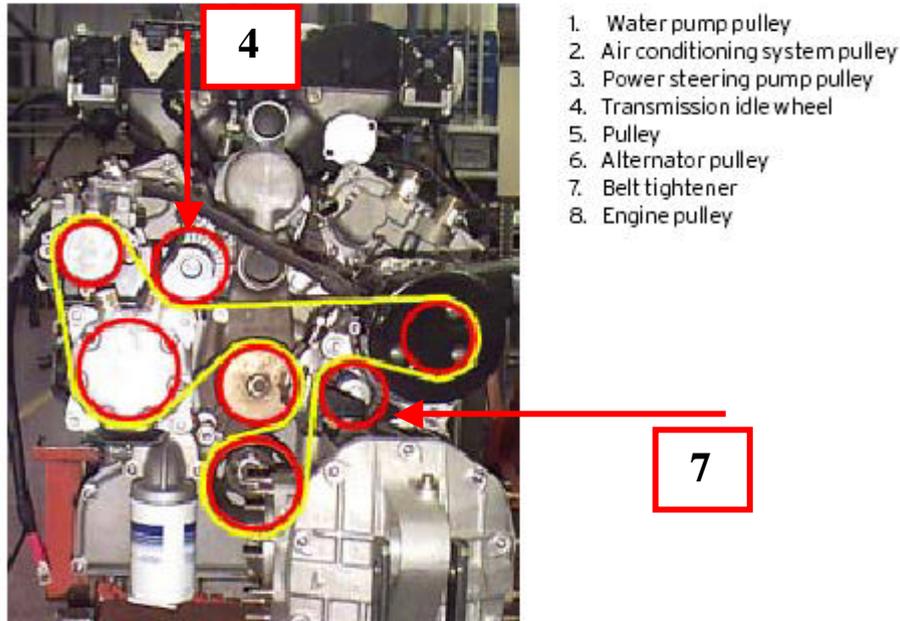
Picture 1





- 1.3 After removing the belt replace the transmission idle pulley PN 001237084 (see Picture 2, Ref. 4) with the new one PN 0012014994.

Picture 2



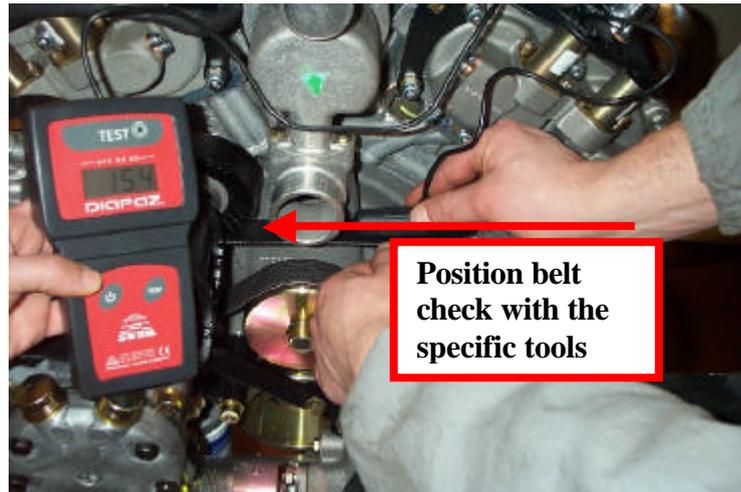
- 1.4 Disassemble the belt tensioner PN 0012007667 and assemble the new one PN 0012014995 (see Picture 2 Ref. 7).
- 1.5 If the vehicle has already been affected by a break of the auxiliary drive belt (see VIN), the replacement of the power steering pump is also required. **See procedure 2.1-2.3.** If not, proceed with 1.6.
- 1.6 Before installing the drive belt make the following checks:
- Make sure that the drive belt is in good condition; otherwise replace the drive belt (PN 0014004296).
 - Control the mileage of the car to make if the replacement of the belt is necessary as described in the maintenance schedule.
- 1.7 After that assemble the belt as described in the Workshop Manual, Section 10, Engine, disassemblies/assemblies, auxiliary belt, page 36:
- Slide the drive belt onto the power steering pump, air conditioning system, water pump and engine pulleys.
 - Move the alternator towards the center of the engine and slide the belt on the alternator pulley by pressing the belt tensioner.
 - Check for the belt correct positioning in the pulley grooves; the A/C compressor pulley has 5 grooves while the belt has only 4 ; the engine side groove of each pulley is to be left free.
 - Lock the belt tensioner.



1.8 Carry out the checks as specified:

- Make the belt vibrate by means of the belt tension check tool and operate on the adjuster screw until the belt resonance frequency reaches 155 Hz ± 5 Hz (see Picture 3).

Picture 3



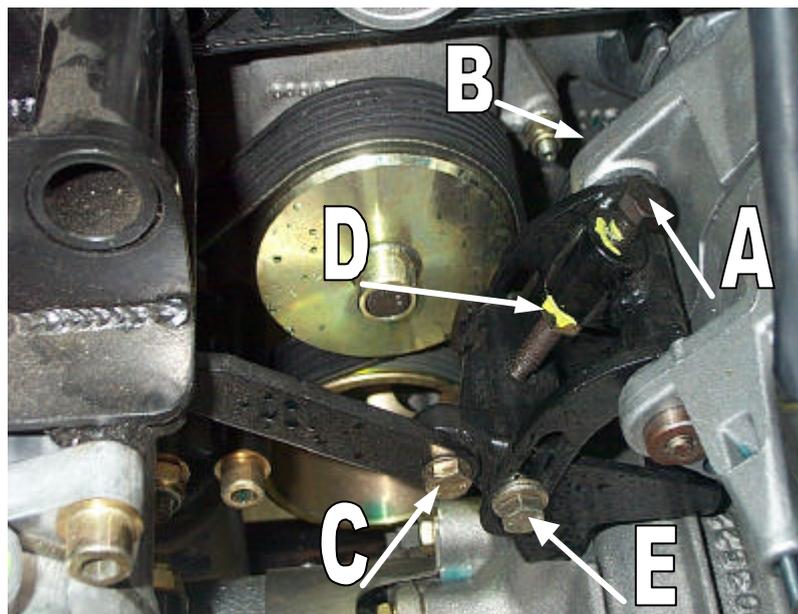
- Tighten the alternator adjuster mounting screw and the adjuster lock nut; lock the alternator mounting bolts.
- Run the engine at idle speed in order to run-in the new drive belt and then turn the engine off and let it cool.
- When the engine is cold, re-check the belt tension again and adjust if necessary.



1.9 Tighten the alternator support to the following tightening torques:

	Tightening Torques	
Rif.	Torque Nm. (ft.lbs.)	Toll %
B	23 (17)	5
C	23 (17)	5
D	23 (17)	5
E	23 (17)	5

Picture 4



1.10 When the replacement has been completed, please compile the Warranty Claim.



Procedure: L147.A-06.03

Operation: Power steering pump replacement PN 0040002374

2.1 Prerequisites: auxiliary drive belt must be removed, follow procedure from 1.1 to 1.4.

Disassemble the power steering pump as described in the Workshop Manual, Section 10, Engine, disassemblies/assemblies, power steering pump:

- Remove the hydraulic fluid pipes from the pump and plug them.
- Remove the 5 pump mounting bolts to the support frame and remove the pump and its pulley.
- Remove the pulley by removing the 3 attaching bolts.

2.2 Assemble the new power steering pump p/n 0040002374 as described in the Workshop Manual, Section 10, Engine, disassemblies/assemblies, power steering pump:

- Fasten the pump to the frame by means of the 5 bolts; tighten the 2 engine side bolts first.
- After the assembly, check the distance between the phase transformer cover and the power steering pulley, If the pump is positioned properly, there should be a clearance of 6-7 mm. An incorrect value can indicate either an improper assembly of the pulley or the power steering pump mounting bolts were tightened in the wrong sequence.
- Reconnect the hydraulic fluid pipes to the pump; the circuit is self-bleeding; activate the Lifting System or turn the steering wheel twice to carry out the bleeding after the installation of new drive belt as described in the procedure 1.6 – 1.10..