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	Code	Description	D	M	G	Photo
47a	69190056	PC Can Interface (A)	●	●	●	
	69190193	PC Can Interface - USB (B)				
		Index C*				
47b		Out of the closet				
	900000126*	MY03-04 WIRING DIAGRAM CD ROM		●	●	
		Out of the closet				
47c						
	69190074	Lamborghini-Audi* OBD adaptor			●	
		Out of the closet				
		* allows to connect VAS tester to the vehicle				



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	Code	Description	D	M	G	Photo
48a	66095011	Diagnostics interface for LARA-AS connection (Basic XS) Out of the closet		●	●	
	66095012	Cable for LARA-AS diagnostics interface (My 08 and older models) color grey		●	●	
48b	69190206	Cable for LARA-AS diagnostics interface (mY 09) color black Out of the closet				
48c	69190063	Diagnostics PC Out of the closet		●	●	



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	Code	Description	D	M	G	Photo
49a	991000402	Laptop bag Out of the closet			●	
49b	66100019	Kit of diagnostic tools			●	
	66100020	Break Out Box (A)				
	66100021	Adaptecable LIE + Egear 52-pol. & 28-pol. (B)				
	66100022	Adaptecable 42-pol. (ABS) (C)				
	66100023	Frontpanel LIE + Egear (D)				
	66100024	Frontpanel ABS (E)				
	66100025	AIR BAG Simulator (F)				
	66100026	Case (G) - optional - Out of the closet				



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	Code	Description	D	M	G	Photo
50a	69190203	VAS 5054 interface Out of the closet			●	
50b	900000155	Kit DVD Off-line until MY08 Out of the closet	●	●	●	
50c	900000161	Kit VAS PC Software Out of the closet			●	



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Electrical system

D= Diablo M= Murcielago G= Gallardo

	Code	Description	D	M	G		Photo
51a	69190082	Battery charger Out of the closet	●	●	●		
51b	69190083	Tester Out of the closet	●	●	●		
51c	69190081	Wiring harness repair kit Out of the closet	●	●	●		



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	Code	Description	D	M	G	Photo
52a	3B0051530	Hi-fi/navigator extractor Out of the closet			●	
52b						
52c						

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**CAUTION!**

- **Always collect any oil, brake fluid or other fluids in special containers. To reduce the risk of intoxication or poisoning, never use empty food or drink containers. Someone could accidentally drink from them.**
- **To reduce the risk of fire, always store inflammable fluids away from fire hazards. Immediately collect and clean up any hazardous leaks. Adequately store or dispose of dirty rags.**

**Note**

Respect the environment and eco-system. Before emptying the oil sump, check how to correctly dispose of exhausted oil. Do not dispose of exhausted oil by pouring it on the ground, in the drainage system, rivers, ponds or lakes. Comply with the local waste disposal regulations.

Hazards**Coolant**

The coolant contains highly inflammable ethylene glycol. Ethylene glycol emits a completely transparent flame, impossible to see with the naked eye. A nearby ethylene glycol combustion cloud can only be discerned by the presence of an unusual heat source. It is forbidden to approach with: naked flames, hot surfaces, cigarettes and components that may produce sparks (e.g. electrical switches). Take care during topping up/filling procedures. Contact with hot parts (e.g. the engine, exhaust, etc.) can cause combustion.

Thoroughly wash with soap and water any skin that comes in contact with coolant. Wear protective gloves to avoid regular contact.

Exhausted engine oil

Long-term and repeated contact with exhausted engine oil can cause skin cancer. Thoroughly wash with soap and water any skin that comes in contact with exhausted engine oil. Wear protective gloves to avoid regular contact.

Brake fluid

Brake fluid can damage plastic, rubber or painted materials. Protect these parts from any contact. If they are exposed to brake fluid, clean immediately with a cloth.



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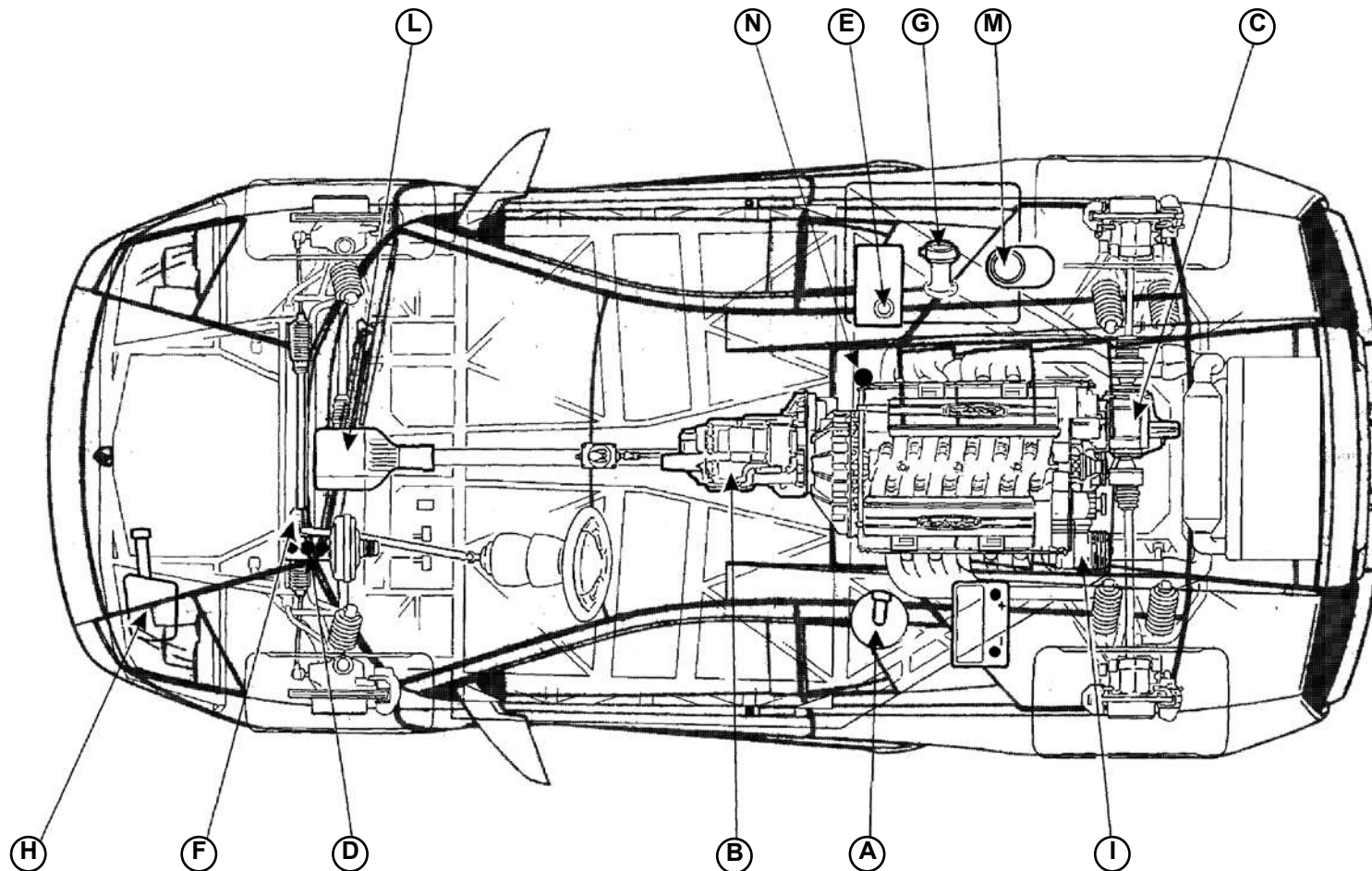
Ref	Items to be serviced	Quantity (liters)	Oil type	Specifications
A.	Engine	13.5 ± 0.5 with oil filter replacement	AGIP SINT 2000 EVOLUTION SAE 5W/40 (*) AGIP TECSINT CASTROL TXT Softec SAE 5W/40	API-SJ/CF
B.	Gearbox	3.5	AGIP ROTRA LSX SAE 75W/90	MIL-L 2105 D API GL4÷GL5 MIL-PRF 2105 E
C.	Rear differential	1.9	AGIP ROTRA LSX SAE 75W/90	MIL-L 2105 D API GL4÷GL5 MIL-PRF 2105 E
D.	Brake/clutch system	0.35	ATE TYP 200 DOT 4 Yellow-bernstein color	DOT 4 SAE J 1703
E.	Cooling system	15	AGIP ECOPERMANENT	BS 3151-B
F.	Steering box	0.12	SEMIFLUID GREASE	NLGI
G.	Fuel tank	100	Unleaded fuel 95 O.N.	
H.	Windshield washer reservoir	5	Mixture of water and screen washer fluid	
I.	Air conditioning	850 (g)	R134a ECOLOGICAL	
L.	Front differential	1	AGIP ROTRA LSX SAE 75W/90	MIL-L 2105 D API GL4÷GL5 MIL-L 2105 E
M.	Power steering/Lifting system	2.7	AGIP DEXRON II	
N.	□gear system circuit fluid	only for topping up	TUTELA CS Speed	
	Grease		AGIP GREASE 33 FD DROP POINT 240 °C	NLGI 3
O.	Air Conditioning system	75 (g)	Pag iso 100 average viscosity	AT41238

* Driving the car at the highest performances or in countries with very high ambient temperature requires the use of Agip 4T 20W/50 (Castrol GTX7 Dynatec SAE 5W/40).



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Engine

- Mid engine, longitudinal layout.
- L 537 12 V-cylinders (60°)
- Total displacement 6,496 cm³, bore 88 mm, stroke 89 mm
- Compression ratio 11 ± 0.2:1
- Maximum power 471 kW (640 HP) at 8,000 rpm
- Maximum torque 660 Nm (67.3 kgm) at 6,000 rpm
- Liquid cooling system with pressurized circuit and double radiator and air intakes with electronically-controlled opening
- Electronically controlled variable geometry intake system
- Timing with four overhead camshafts, four valves per cylinder, and electronic intake/exhaust variable valve timing
- Lubrication with dry pan

**CAUTION!**

- **Never start the engine in closed or confined environments where there is inadequate ventilation. Engine exhaust fumes contain carbon monoxide (CO). Carbon monoxide is colorless and odorless and can be fatal.**
- **Never leave the engine unattended while it is running. An unattended vehicle with the engine running represents a hazard and compromises the safety of the operators.**
- **The engine compartment of any vehicle is potentially hazardous. Before carrying out any work inside the engine compartment, switch off the engine, remove the ignition key and allow the engine to cool down. Contact with hot engine components can cause serious skin burns.**
- **If it is necessary to leave the engine running while servicing the components in the engine compartment, ensure none of the gears are engaged. Always ensure the gear lever is in the parking position “P” and the handbrake is firmly pulled. If this is not the case, any increase in engine revolutions could move the vehicle, even when the handbrake is pulled.**
- **California Proposition n. 65: Engine exhaust manifolds and some of their components, as well as other vehicle components, either contain or issue chemical substances, known to the State of California to cause cancer, birth defects and other reproductive harm. Furthermore, some fluids contained in vehicles, as well as other wear prevention products, contain or issue chemical products, known to the State of California to cause cancer, birth defects and other reproductive harm.**

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Gearbox

Six-speed gearbox

Standard gear ratios:

1st gear	1 : 3.091
2nd gear	1 : 2.105
3rd gear	1 : 1.565
4th gear	1 : 1.241
5th gear	1 : 1.065
6th gear	1 : 0.939

**Note**

The E□Gear ratios are the same as those for the manual gearbox.

Reverse gear 1 : 2.692

Gear ratio between countershaft and
differential input shaft 1 : 1.242

Differential
Rear differential 1 : 2.529
Front differential 1 : 2.933

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**Note**

The manual gearbox are the same as those for the E□Gear ratios.

Reverse gear	1 : 2.692
--------------	-----------

Gear ratio between countershaft and differential input shaft	1 : 1.242
---	-----------

Differential	
Rear differential	1 : 2.529
Front differential	1 : 2.933



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Chassis and body

High-strength tubular steel structure with carbon fiber structural parts

Carbon fiber body except for doors (steel)

Electronically-controlled rear spoiler

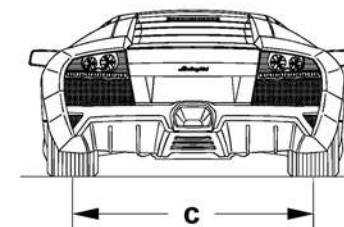
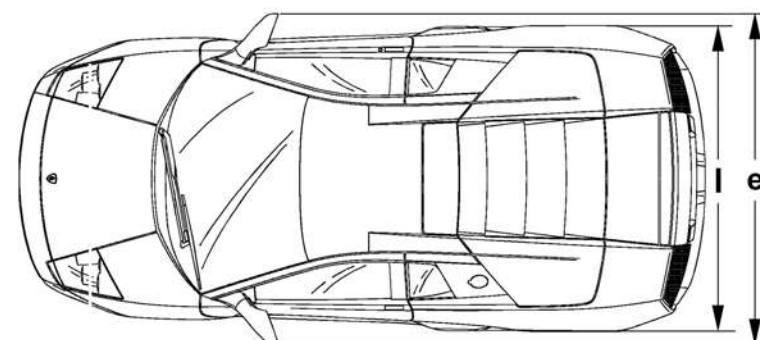
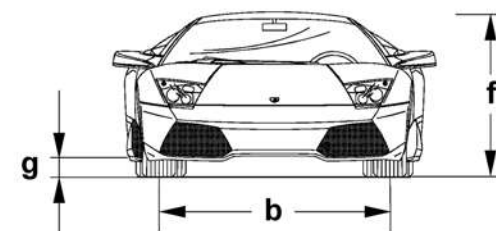
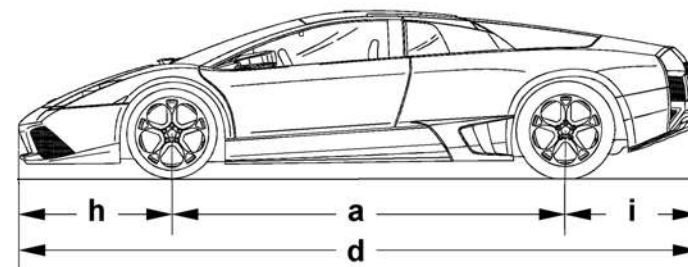
Electronically-controlled variable geometry radiator air intakes

Tank capacity 1,00 l

Reserve tank approx. 20 l

Dimensions and weight

Wheelbase	2,665 mm	(a)
Front track	1,635 mm	(b)
Rear track	1,695 mm	(c)
Total length	4,610 mm	(d)
Width:		
• with rear-view mirrors open	2,240 mm	(e)
• with rear-view mirrors closed	2,058 mm	(f)
Maximum height (vehicle empty)	1,135 mm	(f)
Minimum height (vehicle empty)	96 mm	(g)
Front overhang	1,035 mm	(h)
Rear overhang	910 mm	(i)
Dry weight	1,665 kg	
Seating capacity	2	
Front caster	6 degrees	





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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
1a	Tightening torque of Screw M6 on the phase transformer cover Mark the tightened screw with a yellow permanent marker A. screw	$10,5 \pm 5\%$	
1b	Tightening torque of Screw on the supports of the camshafts A. screw	$9 \pm 5\%$	
1c	Assembling the Valeo clutch mechanism Indicate that positions A-B-C have been tightened with a yellow permanent marker 1. partially tighten the 3 screws in position A until 1-2 mm high 2. completely tighten all the screws in groups of 3 x 120° according to the sequence B-A-C with a torque equal to 1.55 Kgm	$15,2 \pm 5\%$	
1d	Assembling the oil inlet/outlet union on the oil pan Use a yellow permanent marker to indicate it has been tightened A. tightening torque B. tightening torque	$90 \pm 3\%$ $45 \pm 0 / 0.5\%$	

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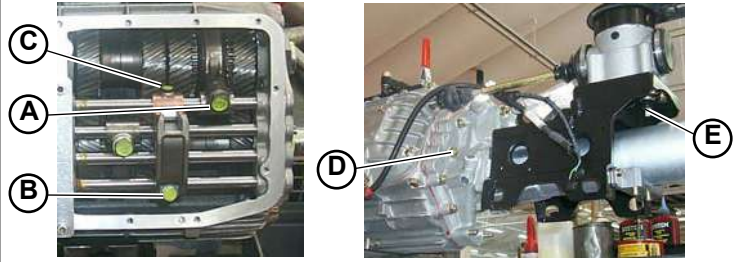
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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
2a	Tightening torque of the connecting rod bolts Add Molykote 1000 on the bolt threading and striking surface A. bolt	$30 \pm 60^\circ$	
2b	Tightening torque of the starter nuts A. nut	$65 \pm 5\%$	
2c	Tightening torque of the oil pump gear A. nut	$29 \pm 2\%$	
2d	Assembling the oil pump on the crankcase A. hexagonal screw (008100659) B. hexagonal socket head screw with corrugated washer (008700694)	$9 \pm 5\%$	



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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
3a	Tightening torque of forks on gearbox		
	A. fork screws	$64 \pm 3\%$	
	B. M8 tooth screws	$30 \pm 3\%$	
	C. M6 tooth screw	$14,5 \pm 3\%$	
	D. nuts on pump body	$25 \pm 3\%$	
	E. shift lever device screw	$29,4 \pm 3\%$	
3b	Tightening torque rear differential		
	A. Rear differential crown screw	$102 \pm 3\%$	
	B. nut on side flanges	$23 \pm 3\%$	
	C. screw on shaft hub	$100 \pm 3\%$	
3c	Tightening torque of silentbloc fixing nut to the shift lever device support		
	A. silentbloc fixing nut	$50 \pm 8\%$	
	B. front body support nuts	$25 \pm 3\%$	
3d	Tightening torque of the clutch housing to the gearbox		
	A. clutch housing fixing nut	$25 \pm 3\%$	



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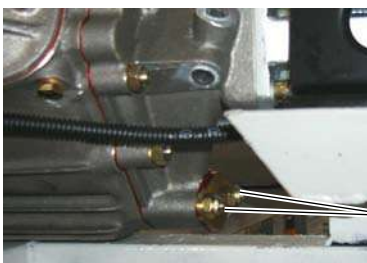
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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
4a	Tightening torque of the centring bushing and the oil gallery plug A. centring bushing screw B. oil gallery conical plug	$11 \pm 3\%$ $29,4 \pm 3\%$	
4b	Tightening torque of the oil plugs and oil vent protective metal sheet A. level and drain plug B. protective metal sheet screw	$45 \pm 3\%$ $8 \pm 3\%$	
4c	Tightening torque of gearbox cover A. gearbox cover screw	$9 \pm 3\%$	
4d	Tightening torque of transaxle pipe screws A. transaxle pipe screw at gearbox	$25 \pm 3\%$	



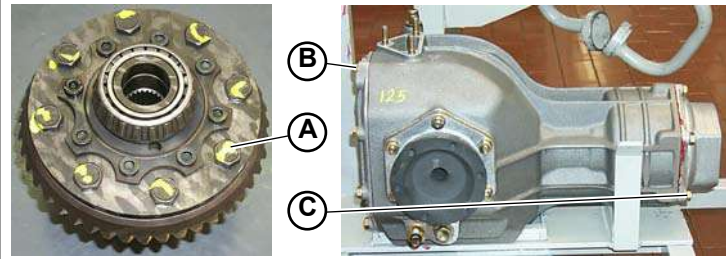
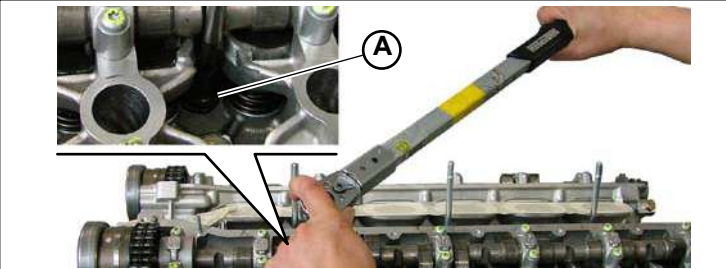
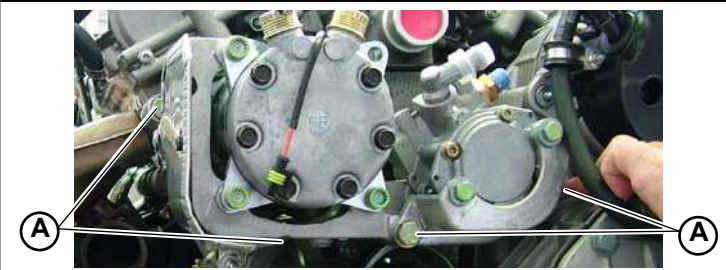
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5a	Tightening torque of rear differential housing fixing nuts A. Rear differential housing fixing nut. Post.	$60 \pm 3\%$	
5b	Cooling system sleeve clamps A. cooling sleeve clamp.	$5 \pm 3\%$	
5c	Tightening torque of nuts on flanged clutch bearing sleeve A. flanged sleeve nut	$9 \pm 3\%$	
5d	Tightening torque of gearbox oil filter fixing nuts A. gearbox oil filter nut	$25 \pm 3\%$	

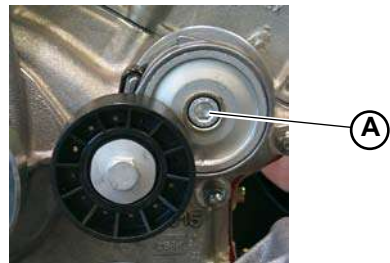
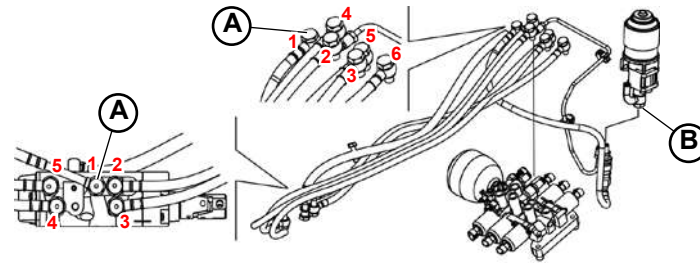
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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
6a	Tightening torque front differential		
	A. Front differential crown screw	$69 \pm 3\%$	
	B. screw on front differential cover	$25 \pm 3\%$	
	C. screw on the viscous coupling cover	$25 \pm 3\%$	
6b	Tightening torque of the head nuts Tighten the head fixing nuts with molikote	$40 - 70 - 95 \pm 5\%$	
6c	Assembling the A/C compressor		
6d	A. fixing nut	$56 \pm 5\%$	
	Assembling the power steering pump support frame, A/C compressor and alternator		
6d	A. screw	$45 \pm 5\%$	

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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
7a	Preassembling the water collection casing Mark the tightened screw with a yellow permanent marker A. screw	24 ± 5%	
7b	Assembling the guide pulley Mark the tightened screw with a yellow permanent marker A. screw	49 ± 5%	
7c	Preassembling the automatic tightener A. pulley screw	45 ± 5%	
7d	Assembling the Selespeed pipes A. Tightening torque of unions B. Tightening torque of unions	20-24 20-24	



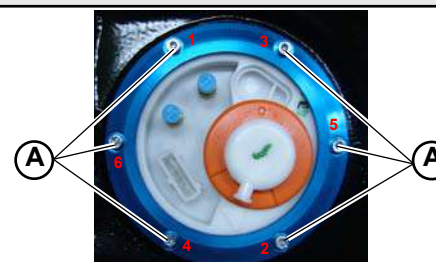
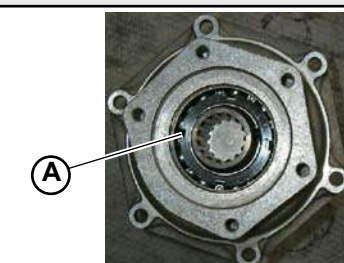
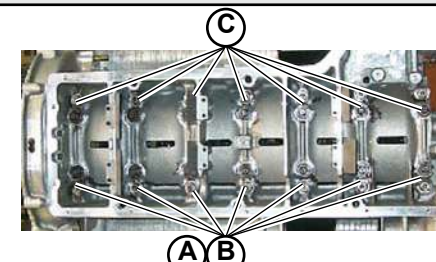
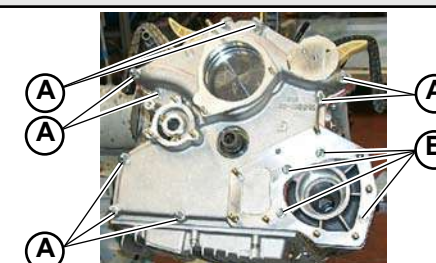
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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
8a	Assembling the control rod on the e-gear gearbox cover Mark the tightened screw with a yellow permanent marker A. fixing screw	$14,5 \pm 3\%$	
8b	Preassembling the e-gear disk pusher Mark the tightened screw with a yellow permanent marker A. screw (10456101)	$6 \pm 5\%$	
8c	Tightening torque of oil sensor A. Oil pressure sensor	$32 \pm 5\%$	
8d	Tightening torque of e-gear actuator screw Mark the tightened screw with a yellow permanent marker A. screw 8x35 mm (01024718) B. nut for screw (90226403)	38	

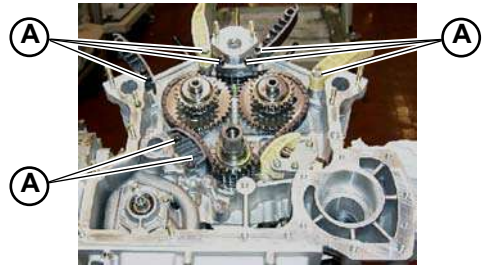
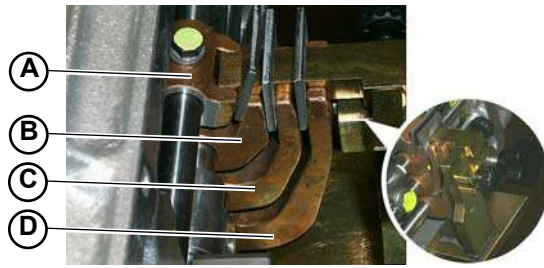
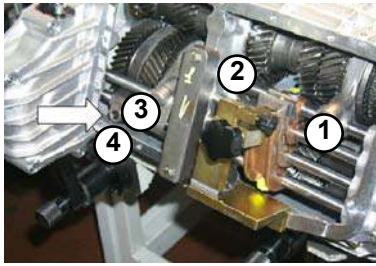
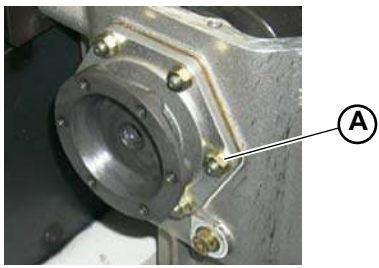
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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
9a	Assembling the fuel pump Before carrying out the final tightening procedure, position and assemble the screws (without fully tightening) according to the sequence outlined below:		
	A. Screw	$4 \pm 10\%$	
9b	Tightening torque of front differential pinion ring nut Mark the tightened screw with a yellow permanent marker	$245 \pm 5\%$	
9c	Tightening torque of engine crankcase A. Tightening torque of screw (first tightening torque) Ø 12 mm B. Tightening torque of screw (second and last tightening torque) Ø 12 mm C. Tightening torque of screw Ø 8 mm	$40 \pm 5\%$ $90 \pm 5\%$ $30 \pm 5\%$	
9d	Tightening torque of timing chain cover A. Tightening torque of screw B. Tightening torque of screw	$30 \pm 5\%$ $28 \pm 5\%$	

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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
10a	Assembling the timing chain shoes A. Tightening torque of screw	$30 \pm 5\%$	
	Assembling the e-gear gearbox pawls and forks Mark the tightened screw with a yellow permanent marker A. tooth B. tooth C. tooth D. tooth	$20 \pm 3\%$ $29,4 \pm 3\%$ $29,4 \pm 3\%$ $29,4 \pm 3\%$	
10c	Assembling the e-gear gearbox pawls and forks Mark the tightened screw with a yellow permanent marker After securing the screws to the teeth, tighten forks 1, 2 and 3 as follows: Using the tool, keep the teeth pressed down. Insert the screw in the fork but do not tighten. Using a marker, mark the stroke at one end first and then at the other end. Now tighten the fork in the middle of the two marks using the Atlas control unit. To tighten fork n. 4, keep the fork pressed down in the direction of the arrow so the clearance at the base of the fork is eliminated, then tighten.	$64 \pm 3\%$	
	Assembling the side flanges Use a yellow permanent marker to indicate it has been tightened A. nut	$25 \pm 5\%$	



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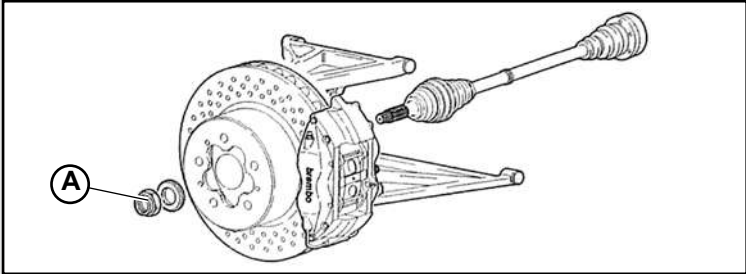
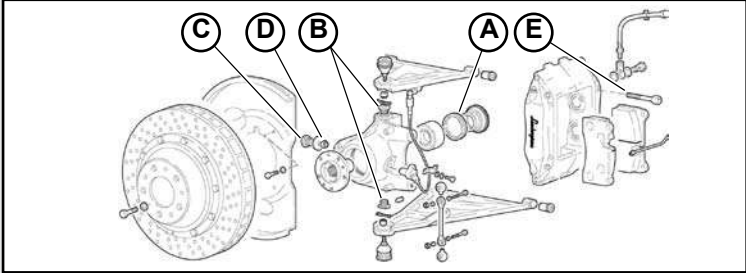
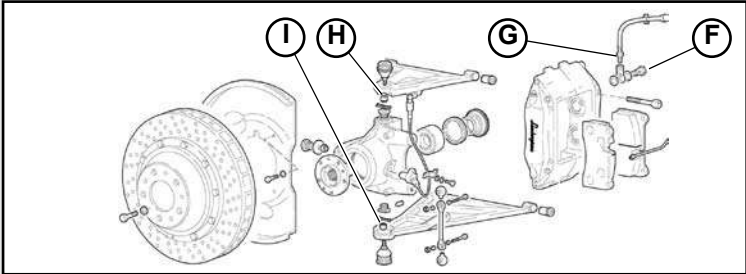
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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
11a	Power steering oil pump delivery recovery Use a yellow permanent marker to indicate it has been tightened A. tightening screw	24 ± 5%	
11b	Tightening torque of engine oil filter A. filter (001534857)	18 ± 5%	
11c	Tightening torque of gearbox oil pump A. tightening screw (008700614)	11 ± 5%	
11d	Tightening torque of support and actuator A. tightening screw (008400801 – 008100826)) B. tightening screw (008700879)	25 ± 3% 20 ± 3%	



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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
12a	Tightening torque of gear lever A. Tightening torque (0024007767)	10 ± 5%	
12b	Securing the suspension to the front axle shaft Once tightened, beat the nut (A) and apply yellow paint using the marker. A. Fixing nut	345 ± 5%	
12c	Pre-assembling the front suspension A. Tightening torque B. Tightening torque C. Tightening torque D. Tightening torque E. Tightening torque	490 175 ± 5% 62,5 ± 2,5% 44 115 ± 5%	
12d	Pre-assembling the front suspension F. Tightening torque G. Tightening torque H. Tightening torque I. Tightening torque	18,5 ± 1,5% 16 ± 2% 69 69	



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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
13a	Pre-assembling the rear suspension		
	A. Tightening torque B. Tightening torque C. Tightening torque D. Tightening torque E. Tightening torque	490 600 47,5 ± 2,5% 24 ± 1% 115 ± 5%	
13b	Pre-assembling the rear suspension		
	F. Tightening torque G. Tightening torque H. Tightening torque I. Tightening torque	16 ± 2% 88 140 ± 2% 140 ± 2%	
13c	Assembling the front right/left suspension Once tightened, apply yellow paint using the marker		
	A. Tightening torque B. Tightening torque	85 ± 5% 85 ± 5%	
13d	Assembling the rear right/left suspension Once tightened, apply yellow paint using the marker		
	A. Tightening torque B. Tightening torque	85 ± 5% 85 ± 5%	



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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
14a	Assembling the ABS control unit Once tightened, apply yellow paint to the nuts and bolts using the special marker A. Tightening torque B. Tightening torque C. Tightening torque D. Tightening torque E. Tightening torque F. Tightening torque	20 ± 2% 24 ± 2% 20 ± 2% 24 ± 2% 20 ± 2% 24 ± 2%	
14b	Assembling the ABS control unit Once tightened, apply yellow paint to the nuts and bolts using the special marker G. Tightening torque H. Tightening torque I. Tightening torque L. Tightening torque M. Tightening torque N. Tightening torque	20 ± 2% 24 ± 2% 20 ± 2% 24 ± 2% 20 ± 2% 24 ± 2%	
14c	Assembling the petrol pipes from the filters to the injector holder pipes Once tightened, apply yellow paint to the unions using the special marker A. Tightening torque of unions	25 ± 5%	
14d	Tightening torque of door striker plate A. Tightening torque of screws	8,5 ± 0,5%	



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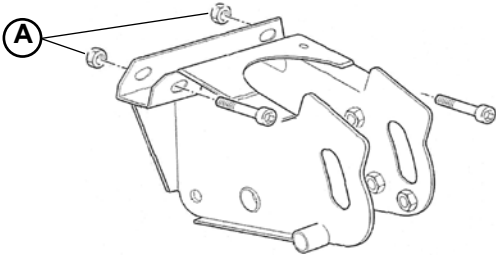
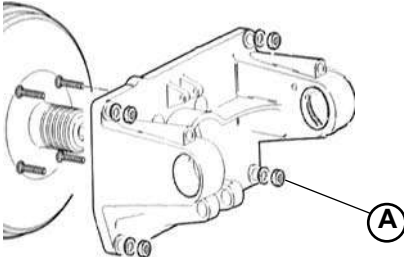
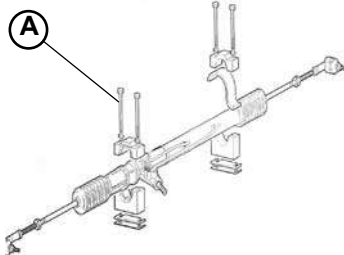
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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
15a	Check the tightening torque of the lifting system assembly A. Nut for oil manifold on the flow separator A. Nut for oil manifold on the valve unit A. Nut for pipe on the flow separator A. Nut for pipe on the valve unit	37 37 37 37	
15b	Assembling the driver airbag module A. Tightening torque of screw	$8 \pm 5\%$	
15c	Assembling the steering wheel in the car After tightening, mark with yellow paint A. Tightening torque	$50 \pm 5\%$	
15d	Assembling the seats Once tightened, apply yellow paint using the special marker A. Tightening torque of seats	$23 \pm 8\%$	



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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
16a	Assembling the steering column Once tightened, apply yellow paint to the nuts and bolts using the special marker A. Tightening torque of nuts	20 ± 5%	
16b	Assembling the pedal cluster Once tightened, apply yellow paint to the nuts and bolts using the special marker A. Tightening torque of nuts	20	
16c	Assembling the steering rack Once tightened, apply yellow paint to the screws using the special marker A. Tightening torque of screws	39 ± 5%	
16d	Power steering oil tank unions A. Tightening torque of union B. Tightening torque of union	37 ± 5% 37 ± 5%	



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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
17a	Assembling the passenger airbag module Once tightened, apply yellow paint to the nuts and bolts using the special marker A. Tightening torque of screws	 $8 \pm 8\%$	
17b	Assembling the steering column on the steering box Once tightened, apply yellow paint to the nuts and bolts using the special marker A. Tightening torque of screws	 27	
17c	Assembling the steering rack and the steering column shaft Once tightened, apply yellow paint to the nuts and bolts using the special marker A. Tightening torque of screws B. Tightening torque of screws	 $27 \pm 5\%$ $27 \pm 5\%$	
17d	Assembling the seatbelt support and buckle Once tightened, apply yellow paint to the nuts and bolts using the special marker A. Tightening torque of screws B. Tightening torque of screws	 $24,5 \pm 5\%$ $49 \pm 5\%$	



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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
18a	Assembling the seatbelts (seatbelt retractors) Once tightened, apply yellow paint to the nuts and bolts using the special marker A. Tightening torque of screws	49 ± 5%	
18b	Assembling the seatbelts Once tightened, apply yellow paint to the nuts and bolts using the special marker A. Tightening torque of screws	49 ± 5%	
18c	Assembling the windscreen wiper arm A. Tightening torque of nut (settling) B. Tightening torque of nut (fixing)	22 ± 5% 25 ± 5%	
18d	Securing the rear differential brackets A. Tightening torque of screw (008201416) B. Tightening torque of screw (008101430) C. Tightening torque of screw (008100862)	50 ± 8% 50 ± 8% 25 ± 8%	



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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
19a	Assembling the front axle shafts Once tightened, apply yellow paint to the nuts and bolts using the special marker A. Tightening torque of screws	 38 ± 5%	
19b	Pre-assembling the petrol tank A. Tightening torque B. Tightening torque C. Tightening torque D. Tightening torque E. Tightening torque	 4 ± 5% 5 ± 5% 25 ± 5% 45 ± 5% 35 ± 5%	
19c	Assembling the petrol filler on the right bumper A. Tightening torque of screws	 5 ± 5%	
19d	Pre-assembling the oil tank A. Tightening torque of union with filter (0015009734) B. Tightening torque of oil pipe union (001529610) C. Tightening torque of temperature sensor (07L919501A) D. Tightening torque of the plug (0015009735) E. Tightening torque of oil drain plug (400131737)	 90 ± 5% 75 ± 5% 15 ± 5% 40 ± 5% 40 ± 5%	



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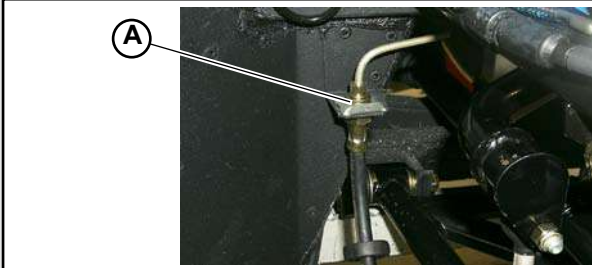
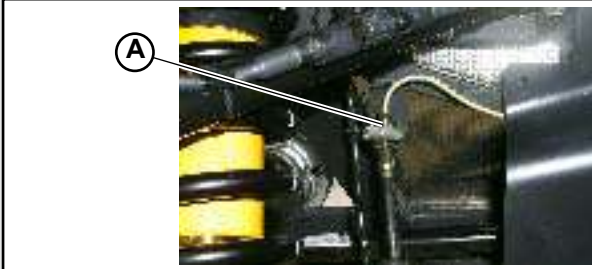
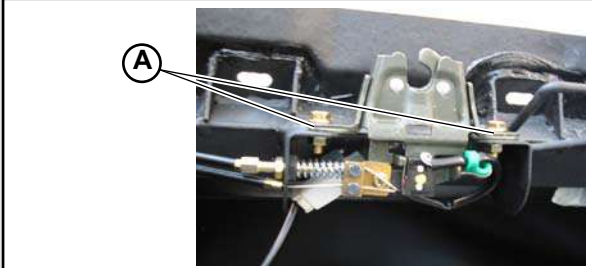
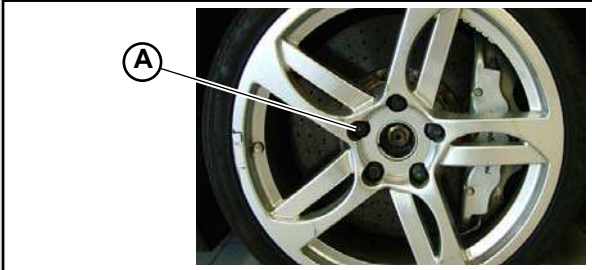
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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
20a	Assembling the mobile air vents A. Tightening torque of flanged screw (0087000700)	$10 \pm 5\%$	
20b	Phase transformer tightening A. Mounting screws dia 6 mm	$140 \pm 5\%$	
20c	Assembling the brake pipes A. Tightening torque of pipe unions	$16 \pm 5\%$	
20d	Connecting the flexible hoses from the ABS control unit to the pipes and clamping to the bracket on the chassis Once tightened, apply yellow paint to the nuts and bolts using the special marker A. Tightening torque of pipe unions	$16 \pm 5\%$	



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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
21a	Assembling the brake caliper hoses Once tightened, apply yellow paint using the special marker A. Tightening torque of pipe unions	16 ± 5%	
21b	Assembling the brake caliper hoses Once tightened, apply yellow paint using the special marker A. Tightening torque of pipe unions	16 ± 5%	
21c	Assembling the front bonnet lock A. Tightening torque of nut (008200614)	8 ± 5%	
21d	Tightening torque of wheel screws A. Tightening torque of the front and rear wheel bolts (WHT001162)	160 ± 5%	



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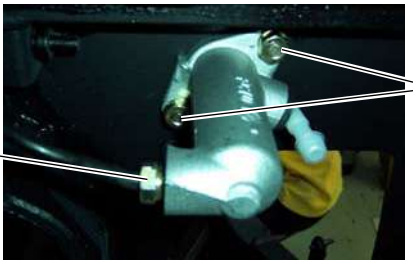
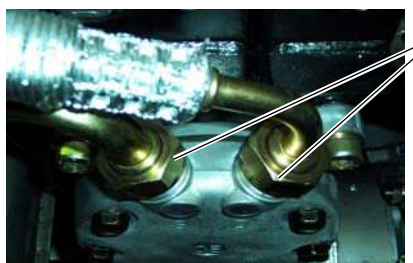
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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
22a	Assembling the accelerator pedal A. Tightening torque of nuts (008200824) on LEFT HAND drive cars B. Tightening torque of screws (008700811) on RIGHT HAND drive cars	20 ± 5% 20 ± 5%	
22b	Assembling the engine supports A. Tightening torque of screws (008101031) on the LEFT side B. Tightening torque of screws (008101031) on the RIGHT side	49 ± 5% 49 ± 5%	
22c	Assembling the petrol return pipe to the tank A. Tightening torque of union	19 ± 5%	
22d	Assembling the power steering pipes on the steering box A. Tightening torque of union B. Tightening torque of screw (400422269A) C. Tightening torque of union (004033458) D. Tightening torque of union (400422279A)	30 ± 5% 36 ± 5% 36 ± 5% 36 ± 5%	



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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
23a	Assembling the power brake on the pedal cluster support A. Tightening torque of screw $23 \pm 5\%$		
23b	Connecting the power brake pipe A. Tightening torque of clamp (008831117) $7 \pm 8\%$	$7 \pm 8\%$	
23c	Assembling the clutch pump and connecting the pipe FOR CARS WITH MANUAL GEAR CHANGE ONLY A. Tightening torque of nut M8 (008200801) $20 \pm 5\%$ B. Tightening torque of union $17 \pm 5\%$	$20 \pm 5\%$ $17 \pm 5\%$	
23d	Connecting the A/C pipes to the compressor A. Tightening torque of union $36,3 \pm 5\%$	$36,3 \pm 5\%$	



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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
24a	Connecting the power steering pipes to the pump A. Tightening torque of union	$37 \pm 5\%$	
24b	Assembling the hand brake lever A. Tightening torque of nut (N 01118312)	$8 \pm 5\%$	
24c	Assembling the oil tank on the chassis A. Tightening torque of bolts	$5 \pm 5\%$	
24d	Assembling the front anti-roll bar supports A. Tightening torque of bolts (008700683)	$10 \pm 5\%$	



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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
25a	Assembling the power brake vacuum tank on the bracket A. Tightening torque of M5 nuts (WHT000760)	$7 \pm 5\%$	
25b	Assembling the petrol filling sleeve on the tank A. Tightening torque of clamp $3 \pm 5\%$		
25c	Fixing the engine crankcase tot the chassis A. Tightening torque of screws (0041010185)	$80 \pm 5\%$	
25d	Assembling the rear anti-roll bar supports A. Tightening torque of bolts (008700683)	$10 \pm 5\%$	



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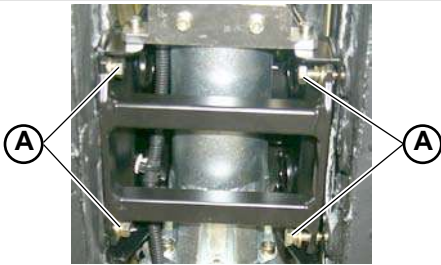
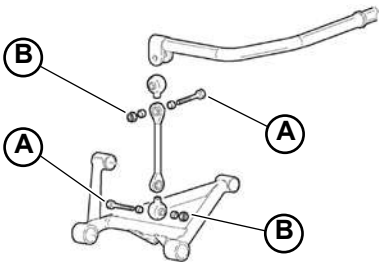
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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
26a	Connecting the vacuum pipes to the left/right supply manifold A. Tightening torque of clamp (008831117) RIGHT SIDE B. Tightening torque of clamp (008831117) LEFT SIDE	5 ± 8% 5 ± 8%	
26b	Connecting the oil pipes to the engine After tightening, mark with yellow paint A. Tightening torque of nut	90 ± 5%	
26c	Tightening torque of the front differential on the support After tightening, mark with yellow paint A. Tightening torque of nut	25 ± 5%	
26d	Connection and tightening torque of rear axle shafts Tighten the screws two at a time on the same washer A. 1. Pre-torque of screw 2. Tightening torque of screw (008701229)	15 ± 3% 88 ± 8%	



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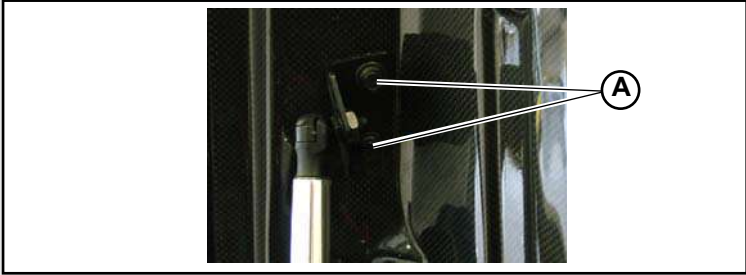
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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
27a	Connection and tightening torque of the lifting system pipes on the front shock absorbers After tightening, mark with yellow paint A. Tightening torque of union (WHT000861)	18 ± 5%	
27b	Assembling the clutch flexible hose A. Tightening torque of union 35 ± 8% B. Tightening torque of union nut (008201216)	17 ± 8%	
27c	Securing the gear lever device on the chassis After tightening, mark with yellow paint A. Tightening torque of screw M8x1,5x35 (008100862)	25 ± 5%	
27d	Connecting the tie rods to the rear suspensions A. Tightening torque of bolt B. Tightening torque of nut	25 ± 5% 25 ± 5%	



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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
28a	Securing the drive shaft to the front differential After tightening, mark with yellow paint A. Tightening torque of screw M8 (008700811)	25 ± 5%	
28b	Connecting the tie rods to the front suspensions A. Tightening torque of bolt B. Tightening torque of nut	25 ± 5% 25 ± 5%	
28c	Assembling the auxiliary belt pulley A. Tightening torque of bolts	145	
28d	Assembling the engine hood piston support plate A. Tightening torque of screw	12 ± 5%	



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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
29a	Assembling the engine hood A. Tightening torque of screw M6x12 (008700700)	10 ± 5%	
29b	Assembling the airbag control unit Once tightened, apply yellow paint to the nuts using the special marker A. Control unit fixing nuts	8 ± 8%	
29c	Pre-assembling the silencer cover hood A. Tightening torque of screw M6x12 (008700700) B. Tightening torque of screw M8x20 (008740833) C. Tightening torque of screw	10 ± 8% 12 ± 8% 12 ± 8%	
29d	Assembling the brake disk (standard & carboceramic) A. Tightening torque of the front brake bolts B. Tightening torque of rear brake bolts	25 25	



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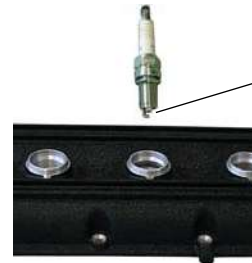
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	DESCRIPTION	TIGHTENING TORQUE (Nm)	PICTURE
30a	Tightening torque of the handbrake caliper A. 8 mm diameter bolt B. 10 mm diameter bolt	24 47,5	
30b	Tightening torque of brake calliper on the front and rear hubs A. 10 mm diameter fixing screws	115	
30c	Tightening torque of the flywheel A. 8 mm diameter bolt	40	
30d	Tightening torque of the main shaft and countershaft A. Ring nut	343	



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DESCRIPTION		TIGHTENING TORQUE (Nm)	PICTURE
31a	Tightening torque of the pipes on the oil radiator (lower and upper)		
	A. Pipes	55	
31b	Tightening the spark plugs on right and left heads		
	A. Spark plug tightening (101905619) - with the grease A. Spark plug tightening(101905602) - without the grease	18 ± 5% 15 ÷ 20	



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Electrical control

- Static ignition with single coils (one for each spark plug).
- Ignition order: 1-7-4-10-2-8-6-12-3-9-5-11 (Cylinder 1 is the first on the left when looking at the engine from the flywheel side).
- Lamborghini LIE sequential multipoint electronic injection.
- Emission control system using three-way catalytic converters and oxygen sensors.
- Electronic intake/exhaust variable valve timing (**linear**).
- Air supply system with four throttle bodies and two ETB control units.
- Electronic traction control system.



CAUTION!

- **Always disconnect the battery earth cable when working on the fuel supply system or the electrical system. Do not smoke or work near heaters or any other device that could be a fire hazard. The fluids contained inside the engine compartment can cause fires. Always ensure a fire extinguisher is within reach.**
- **Before charging the battery, always disconnect the earth cable.**
- **To disconnect the battery, first disconnect the negative cable (-) and then the positive (+).**
- **Do not carry out fast charges on the battery (jump starts using cables) for more than one minute and do not exceed the battery 16.5 Volts while the cables are connected. Wait at least one minute before repeating the procedure.**
- **While working on the battery, avoid short-circuiting the terminals with tools or other metal objects. This would cause the battery to overheat very quickly and therefore explode, damaging the electronic components.**
- **Always keep the battery out of reach of children.**
- **Do not attempt to charge a frozen or defrosted battery. Danger of explosion! Replace frozen batteries. A flat battery can freeze at 32°F (0°C).**
- **Do not use damaged batteries. Danger of explosion! Always replace damaged batteries.**
- **California Proposition no. 65: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Handle with care and then wash hands carefully.**



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- The vehicle described in this manual is equipped with a safety system (SRS) which, during certain types of impact, deploy the airbags by explosive devices. If handled improperly or without the due precautions, said devices could deploy accidentally and cause serious injury. To avoid personal injury or damage to the SRS systems, every test, disassembly, repair or disposal procedure carried out on the SRS systems shall be executed exclusively by qualified Lamborghini technicians.
- Do not use light indicators to carry out electrical tests on the SRS system. The SRS system may only be tested by qualified Lamborghini technicians who possess special equipment for vehicles: PC-DIAG (diagnosis software). SRS system components may only be electrically tested when installed on the vehicle.
- While driving a vehicle equipped with an SRS safety system, do not hold control devices in your hand or on your knees while the vehicle is in motion. Any objects located between the driver and the airbag can increase the risk of injury in case of an accident.



Important!

- Before doing any electric welding on vehicles equipped with ABS brakes, disconnect the battery earth cable and the connector from the ABS control module. Failure to disconnect the ground strap damages the ABS system.
- Before disconnecting the battery or removing the car hi-fi on vehicles equipped with a car hi-fi featuring an anti-theft system, ensure you possess the correct car hi-fi activation code. If an incorrect code is entered when the radio is connected, the radio could be shutdown and become unusable even if the correct code is entered at a later date.
- Only use electrical or pneumatic tools to loosen fixtures and threaded clamps. Do not use this type of tool to tighten fixtures, especially components made of light alloy. Always use a dynamometric wrench to tighten fixtures to the required torque.
- Ensure the engine is not running before connecting the battery. If this is not the case, the engine control unit (LIE) could be damaged.

Hazards

To avoid damage to the operator or vehicle, disconnect the battery before carrying out any maintenance/repair work by switching the battery disconnect control OFF. If it is necessary to work while the battery is connected, take the utmost care and adhere to the safety procedures included in the manual.



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USE	CONNECTION	VOLT	POWER [WATT]	QUANTITY
Low and high beam headlights	D2S (Bi-Xenon Hella)	85	35	2
Front running lights	W5W	12	5	2
Tail lights and brake lights	P21/5 W	12	21/5	2
Central brake light	Lamborghini p.n. 410945249A	12		1
Tail lights	W3W	12	3	4
Rear fog light and tail light	P21W	12	21	2
Reverse light	W5W	12	5	8
Front turn signals	H21W	12	21	2
License plate light	C5W	12	5	2
Side turn signals	W5W	12	5	2
Rear turn signals	WY5W	12	5	12
Fog lights	H3	12	55	2
Courtesy lights	Toshiba 12 V 6WX (xenon)*	12	6	2
Front luggage compartment light	W5W	12	5	1
Door light	T 1 1/2 (attacco W 2x4,6d)	12	1,2	2

* interchangeable with W5W



Note

Lamborghini recommends using Osram or Philips light bulbs.

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Scrapping

Lamborghini Automobili S.p.A. recommends the utmost care when scrapping and subsequently disposing of the various materials making up the car. Below is a list of materials that must be disposed of separately and in compliance with the laws in effect in the relative country:

- Battery
- Wheel balancing weights containing lead (that is, marked Pb)
- Catalytic converters
- Glass
- Tyres
- Components containing explosive charges (airbags)
- Fuel, engine oil, gearbox oil, coolant, antifreeze, brake fluid, air conditioning system fluid and any other fluids contained within the disused vehicle.
- Components containing mercury (where feasible): Low beam headlight bulbs, navigator display (colour displays only)
- Plastic components



During disposal, comply with the specific laws in force in the country of use.



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AIRBAG SCRAPPING

Disassembling the Driver airbag Inflator

Preliminary operations:

- Remove driver airbag (088003).

Driver disassemble:

- Take off the squib connector (A-Fig.1).



Don't cut the cable or brake the plug! Otherwise no activation of the short circuit!

- Unscrew the four flange nuts with a torque wrench or ratchet. (B-Fig.2).
- Detach the inflator from the airbag (C-Fig.3).
- Put the inflator into the inflator pallet immediately.

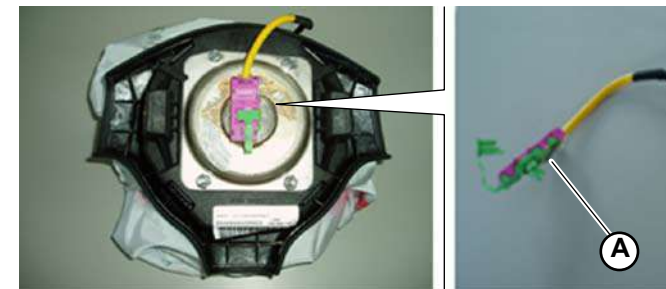


Fig.1

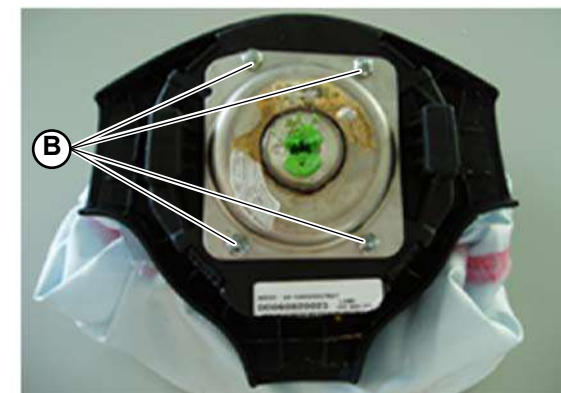


Fig.2

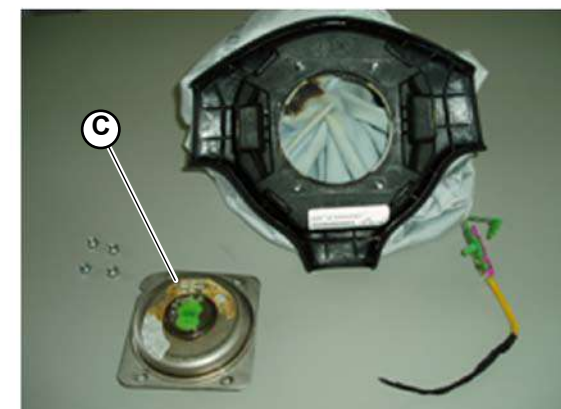


Fig.3



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Disassembling the Inflator from passenger's side airbag

Preliminary operations:

- Remove passenger's airbag module (088003).

Inflator disassemble:

1. Take off the two squib connectors.
2. Dismantle connectors from module (**A-Fig.4**).

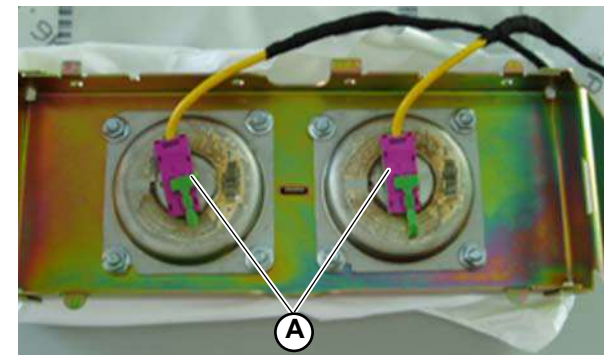


Fig.1

STOP Don't cut the cable or brake the plug! Otherwise no activation of the short circuit!

3. Unscrew the eight flange nuts with a torque wrench or ratchet (**B-Fig.5**).
4. Pull out the inflators (**C-Fig.6**).
5. Put the inflators into inflator pallets immediately.

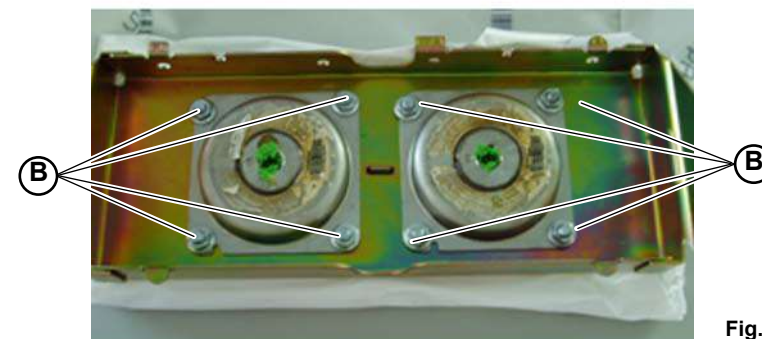


Fig.2



Fig.3



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WHEEL ALIGNMENT



The vehicle must be complete with all components: Mechanical, body, internal and external; without these the finished vehicle's weight would differ.

The vehicle must be positioned on the alignment bench with the tires inflated to the indicated pressure required for alignment.

Vehicle height from ground:

- The height above ground must be read at the four indicated positions (one for each wheel) by measuring the distance between the floor and the measurement areas on the chassis, respectively:
- For the front:** Distance from the ground to the lower edge of the chassis, measured at the front wheel axle.
- For the rear:** Distance from the ground to the lower edge of the chassis, measured at the rear wheel axle.

Table A

	Front	Rear
Vehicle height from ground (after road test) (mm.)	155±3	145±3
Caster (°)	+6° 00' ÷ +6° 30'	-
Toe-in per wheel (°)	0° 04' ÷ 0° 06'	0° 10' ÷ 0° 14'
Total toe-in* (°)	0° 08' ÷ 0° 12'	0° 20' ÷ 0° 28'
Camber (°)	-0° 40' ÷ -0° 50'	-0° 40' ÷ -0° 50'

* Note: Total toe-in indicates the toe-in angle generated by the toe-in of both wheels. The individual toe-in value is logically half the total value.

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Wheel alignment at customer service centers

The wheel alignment values in **table A** should be used on vehicles at customer service centers.



The fuel tank should be empty when carrying out wheel alignment.

Any variations in vehicle height due to a full fuel tank can be compensated for as stated in attached **table B**.

Table B

	Front	Rear
Vehicle height from ground with empty fuel tank (mm.)	155 ± 3	145 ± 3
Vehicle height from ground with full fuel tank (mm.)	152 ± 3	141 ± 3



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ACCESSORIES

D= Diablo M= Murcielago G= Gallardo

Code	Description	D	M	G	Photo
0048010349	Car cover kit			●	
0048016953	Car cover kit		●		
900000109	Interior leather cleaning kit			●	



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Code	Description	D	M	G	Photo
900000103	Adesivo "Next service"				



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Chassis number location



Engine serial number



Front differential serial number



Gearbox serial number



Rear differential serial number





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CHECKLIST

Order number	Service manager	Number plate	Registration date
Engine number	Gearbox number	Gearbox type	Km/MIs
VIN	Model	Model Year	Date
Mechanic's name	Delivery date	Car number	Type of job carried out

Description	i.o.	non i.o.	Repaired
On-board documentation	☐	☐	☐
Check whether this VIN is affected by any recall or service campaign to be performed	☐	☐	☐
Check the maintenance schedule to see if the car is due for a service or if any fluids need to be changed	☐	☐	☐
Check the exhaust gas expiry date and the M.O.T./service date	☐	☐	☐
	☐	☐	☐
Inside the vehicle	☐	☐	☐
Electric windows, folding mirrors and electric top check positioning	☐	☐	☐
Adjust the digital clock	☐	☐	☐
Check all switches, electrical devices, indicators and other elements function correctly	☐	☐	☐
Ensure the controls on the pushbutton panel are complete	☐	☐	☐
Check the interior compartment for any visual faults	☐	☐	☐
Ensure footboards are fixed securely	☐	☐	☐
	☐	☐	☐
	☐	☐	☐
i.o. = in order not i.o. = out of order Repaired = the problem has been cleared up	NOTES:		Date: Signature:



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CHECKLIST

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Engine number	Gearbox number	Gearbox type	Km/MIs
VIN	Model	Model Year	Date
Mechanic's name	Delivery date	Car number	Type of job carried out

Description	i.o.	non i.o.	Repaired
Outside the vehicle	☐	☐	☐
Check and/or replace the windscreen wiper blades (if agreed beforehand with the customer)	☐	☐	☐
Ensure the windscreen wipers, washing system, flap, headlamp wipers and nozzles function correctly	☐	☐	☐
Check the exterior for any visual faults	☐	☐	☐
Windscreen wiper blades: ensure the parked wiper position is correct. If the blades "scrape", check whether they are set at the correct angle	☐	☐	☐
	☐	☐	☐
Electrical system	☐	☐	☐
Front lights: ensure the side lights, low beams, high beams, fog lights, indicator lights, hazard lights and the luggage compartment light function correctly	☐	☐	☐
Check the height of the front headlamps and adjust if necessary	☐	☐	☐
Rear lights ensure the brake lights, rear lights, reversing lights, rear fog lights, number plate light, indicator lights and hazard lights function correctly	☐	☐	☐
Interior compartment lights: interior lights, reading lights, passenger glove box light, door clearance lights and puddle lights.	☐	☐	☐
Battery: check the charge status, the electrolyte level (top up with distilled water if necessary) and ensure the battery poles have not oxidised	☐	☐	☐
Diagnosis: read, if possible archive, and then delete any error codes	☐	☐	☐
	☐	☐	☐
i.o. = in order not i.o. = out of order Repaired = the problem has been cleared up	NOTES:		Date: Signature:



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CHECKLIST

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Engine number	Gearbox number	Gearbox type	Km/MIs
VIN	Model	Model Year	Date
Mechanic's name	Delivery date	Car number	Type of job carried out

Description	i.o.	non i.o.	Repaired
Engine compartment (rear)	☐	☐	☐
Engine and engine compartment: visually check for any leaks and/or faults	☐	☐	☐
Engine oil: check the oil level and top up if necessary	☐	☐	☐
Cooling system: check the antifreeze fluid and the coolant level. Antifreeze protection up to -25°C	☐	☐	☐
Brakes: maximum fluid level	☐	☐	☐
Lifting system: ensure the system functions correctly	☐	☐	☐
Gearbox: check the oil level and top up if necessary	☐	☐	☐
	☐	☐	☐
Luggage compartment (front)	☐	☐	☐
Windscreen washer system: check the fluid level and top up	☐	☐	☐
	☐	☐	☐
Lower part of the vehicle	☐	☐	☐
Engine, gearbox, differentials, steering, coupling covers: visual check to ensure there are no leaks and/or damage	☐	☐	☐
Brake system: visual check to ensure there are no leaks and/or damage	☐	☐	☐
i.o. = in order not i.o. = out of order Repaired = the problem has been cleared up	NOTES:		Date: Signature:



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CHECKLIST

Order number	Service manager	Number plate	Registration date
Engine number	Gearbox number	Gearbox type	Km/MIs
VIN	Model	Model Year	Date
Mechanic's name	Delivery date	Car number	Type of job carried out

Description	i.o.	non i.o.	Repaired
Steering tie rod heads: ensure the steering tie rod heads are properly secured and ensure the clearance is correct. Check the bellow seals	☐	☐	☐
Exhaust system: visual check to ensure there are no leaks and/or damage	☐	☐	☐
Underbody: visual check to ensure there is no damage and that the fixing devices and pipes have not become loose	☐	☐	☐
	☐	☐	☐
Wheels and tyres	☐	☐	☐
Wheel fixing screws: ensure the tightening torque is correct	☐	☐	☐
Front left tyre: check the pressure, check the condition of the tread and ensure the wear of the tread is even. Thickness in mm _____	☐	☐	☐
Front right tyre: check the pressure, check the condition of the tread and ensure the wear of the tread is even. Thickness in mm _____	☐	☐	☐
Rear left tyre: check the pressure, check the condition of the tread and ensure the wear of the tread is even. Thickness in mm _____	☐	☐	☐
Rear right tyre: check the pressure, check the condition of the tread and ensure the wear of the tread is even. Thickness in mm _____	☐	☐	☐
	☐	☐	☐
Final jobs	☐	☐	☐
Climate control system check the climate control system functions correctly	☐	☐	☐
Navigator (if present)/Radio: check the navigator and/or radio function correctly	☐	☐	☐
i.o. = in order not i.o. = out of order Repaired = the problem has been cleared up	NOTES:		Date:
			Signature:

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Order number	Service manager	Number plate	Registration date
Engine number	Gearbox number	Gearbox type	Km/MIs
VIN	Model	Model Year	Date
Mechanic's name	Delivery date	Car number	Type of job carried out

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VEHICLE CARE CHECKLIST DURING PERIODS OF DISUSE

IMMEDIATELY AFTER SWITCHING THE VEHICLE OFF

Description	OK
Park vehicle in the parking area slowly, carefully and keeping sufficient distance. Do not switch off the vehicle under trees, poles, etc.	☐
Remove any paper or other objects from the electric panel, seats and compartments.	☐
Remove the ignition key and place it on the passenger seat.	☐
Open all the air vents, turn the ventilator onto maximum.	☐
Lift the sun visors.	☐
Remove any dirt, snow or water from the vehicle (bottom of the car).	☐
Lock the windows, engine compartment and luggage compartment.	☐
With both manual gear and the automatic transmission place in 1st,	☐
Do not engage reverse gear! Do not apply the handbrake.	☐
If necessary re-position the floor protection mats.	☐
Check that the tyre inflation pressure is between 3.5 and 4.0 bar and if necessary inflate.	☐
Disconnect the clamp from the negative pole of the battery	☐
Install the windscreen wipers and the windscreen wiper guards for haulage.	☐
Check the voltage is in the resting condition. The voltage is in resting condition when: the engine has not been running for at least 2 h and no controls have been activated. If the battery has a voltage of less than 12.5 V recharge it immediately! If the battery has a voltage of more than 12.5 V it is not necessary to take any measures. Only use charging devices with established voltage (e.g. VAS 5095 see the specific technical information). The charging voltage cannot exceed 14.4 V!	☐
Do not remove the sheet used for transport before the vehicle is delivered to the client. Check for any damage and keep the protection on the seats.	☐
VIN Number Vehicle collection date Date of delivery to the client	NOTES:
Date:	
Signature:	

Please include date and signature

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Description		OK
Check if the vehicle is subject to erosion by harsh agents (e.g. Bird droppings, pollution) and clean if necessary.		
Check for any damage and keep the protection on the seat.		
VIN Number Vehicle collection date Date of delivery to the client	NOTES:	Date: Signature:

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Description	OK
Check the voltage in the resting condition The voltage is in resting condition when: the engine has not been running for at least 2 h and no controls have been activated. If the battery has a voltage of less than 12.5 V recharge it immediately! If the battery has a voltage of more than 12.5 V - it is not necessary to take any measures.	☐
Remove any signs of rust on the disk brakes. Connect the clamp to the negative pole of the battery. Drive approx 500 m in 2. (from 50 - 60 km/h), brake slightly several times. Then brake strongly 3 times with the vehicle at high speed complying with the speeding limit and in respect of saifty	☐
Check that the tyre inflation pressure is between 3.5 and 4.0 bar and if necessary inflate.	☐
Disconnect the clamp from the negative pole of the battery	☐
Maintenance and cleaning of the leather upholstery. Keep the leather upholstery clean to prevent the formation of mould. If any mould does develop, remove using the cleaning kit (code 00A096372017) (001200)	☐
	☐
	☐
	☐
	☐
	☐
	☐
	☐
	☐
	☐
	☐
	☐
	☐
VIN Number Vehicle collection date Date of delivery to the client	NOTES:
	Date: Signature:

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PRE-DELIVERY TESTS



The Lamborghini Dealer is obliged, before delivering the car to the customer, to carry out the checks and tunings listed below. Said operations must be carried out following the instructions of the Factory.

Description	OK	NO	Rectified
00 General information	☐	☐	☐
Check vehicle identification numbers are clearly legible	☐	☐	☐
Road-test the car	☐	☐	☐
Fill in the identification data forms and return a copy to Lamborghini as soon as possible	☐	☐	☐
Check that the car is supplied with Warranty and Scheduled Maintenance Plan Booklet, Owner's Manual and tool kit and emergency triangle	☐	☐	☐
	☐	☐	☐
01 Engine	☐	☐	☐
Check oil level	☐	☐	☐
Check coolant level	☐	☐	☐
Check belt tension	☐	☐	☐
Check for oil, water and fuel leaks	☐	☐	☐
Check clutch oil level	☐	☐	☐
	☐	☐	☐
03 Transmission	☐	☐	☐
Check oil level and proper operation of handbrake	☐	☐	☐
	☐	☐	☐
	☐	☐	☐
Check means: inspect and perform any necessary operations.	NOTE:		Date:
			Stamp and signature:



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Description	OK	NO	Rectified
04 Front axle, steering / 05 Rear axle	☐	☐	☐
Check steering box and steering linkage bolts and nuts torque	☐	☐	☐
Check power steering fluid level	☐	☐	☐
Check the tightening of the front and rear suspension retaning devices	☐	☐	☐
Check proper working of shock absorbers and front drive lifting system if present on the vehicle	☐	☐	☐
	☐	☐	☐
06 Wheels / Brakes	☐	☐	☐
Check brake oil level and handbrake proper operation	☐	☐	☐
Check tyre pressure	☐	☐	☐
Check wheel nut tightening	☐	☐	☐
	☐	☐	☐
08 Body	☐	☐	☐
Check safety belt fasteners for proper torque and operation	☐	☐	☐
	☐	☐	☐
09 Electrical equipment	☐	☐	☐
Check battery charge status	☐	☐	☐
Check lighting system, turn indicators, stop and warning lights	☐	☐	☐
Check headlight aiming	☐	☐	☐
Check ventilation system and air conditioning working	☐	☐	☐
Check windshield wiper and washer working	☐	☐	☐
Check means: inspect and perform any necessary operations.	NOTE:		Date:
			Stamp and signature:

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SCHEDULED MAINTENANCE PLAN 1.5 miles (x 1000) - 2,5 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	Check whether this VIN is affected by any recall or service campaign to be performed	☐	☐	☐
☐		☐	☐	☐
☐	01 Engine	☐	☐	☐
I	Injection system: lines and connections (012801)	☐	☐	☐
I - R**	Clutch wear check (for cars with e-gear) (014203)(109000)	☐	☐	☐
R	Engine oil and filter (minimum once per year) (011707)(011708)	☐	☐	☐
☐		☐	☐	☐
☐	06 Wheels, Brakes	☐	☐	☐
I	Brake discs and pads (061501)	☐	☐	☐
I	Brake pedal clearance and handbrake adjustment (060201)	☐	☐	☐
I	Brake and clutch fluid level (change every year) (061101)(061107)	☐	☐	☐
I	Tyres and rims: check the tyre tread, pressure and general condition (060101)	☐	☐	☐
☐		☐	☐	☐
☐	09 Electrical equipment	☐	☐	☐
I	Battery: connections and charge (091501)	☐	☐	☐
I-A	Engine accessory drive belt (090301)(090303)	☐	☐	☐
☐		☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date:
				Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.

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Type	Description	OK	NO	Rectified
	10 Diagnosi			
I	Fault memory enquiry using La-Ra and LDAS. Data printout ant troubleshooting in case of error codes (109000)(109114)			
I	Idle speed. (USA CANADA)			
I	ROAD TEST			
	After servicing, complete and stamp the space provided in the warranty booklet and complete the sticker (001200) to be applied onto the door ledge			

I = Inspection and any additional service if required
A = Adjustment
R = Replacement

NOTE:

Date:

Stamp and signature:

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.



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SCHEDULED MAINTENANCE PLAN 7.5 miles (x 1000) - 12 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	Check whether this VIN is affected by any recall or service campaign to be performed	☐	☐	☐
☐		☐	☐	☐
☐	01 Engine	☐	☐	☐
I - R**	Clutch wear check (for cars with e-gear) (014203)(109000)	☐	☐	☐
R	Engine oil and filter (minimum once per year) (011707)(011708)	☐	☐	☐
☐		☐	☐	☐
☐	02 Fuel tank, exhaust system, heating	☐	☐	☐
I	Air conditioning system (inspection at least every year) (026001)	☐	☐	☐
I	Air conditioning system dust filters (at least every two years) (026001)(026003)	☐	☐	☐
☐		☐	☐	☐
☐	03 Transmission	☐	☐	☐
I	Gearbox oil: check the level and clean the filter (top up the oil that leaked when cleaning the filter). (031504)	☐	☐	☐
I	Shift control support adjustment inspection (032301)	☐	☐	☐
☐		☐	☐	☐
☐	04 Front axle, steering / 05 Rear axle	☐	☐	☐
I	Steering components, joint protections and boots on the steering rack, steering levers and drive shafts (041901)	☐	☐	☐
I	Front and rear suspension articulated joints: visual inspection and check torque is correct (041101)(051101)	☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date: Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.



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SCHEDULED MAINTENANCE PLAN 7.5 miles (x 1000) - 12 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	06 Wheels, Brakes	☐	☐	☐
I	Brake discs and pads (061501)	☐	☐	☐
I	Braking system, pipes and calipers (060701)	☐	☐	☐
R	Brake and clutch fluid level (change every year) (061101)(061107)	☐	☐	☐
I	Tyres and rims: check the tyre tread, pressure and general condition (060101)	☐	☐	☐
☐		☐	☐	☐
☐	08 Body	☐	☐	☐
I	Safety belts: check of proper working conditions (086801)	☐	☐	☐
☐		☐	☐	☐
☐	09 Electrical equipment	☐	☐	☐
I	Battery: connections and charge (091501)	☐	☐	☐
I	Headlights aiming check (094101)(094102)	☐	☐	☐
☐		☐	☐	☐
☐	10 Diagnosi	☐	☐	☐
I	Fault memory enquiry using La-Ra and LDAS. Data printout and troubleshooting in case of error codes (109000)(109114)	☐	☐	☐
I	ROAD TEST	☐	☐	☐
☐	After servicing, complete and stamp the space provided in the warranty booklet and complete the sticker (001200) to be applied onto the door ledge	☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date: Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.



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SCHEDULED MAINTENANCE PLAN 15 miles (x 1000) - 24 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	Check whether this VIN is affected by any recall or service campaign to be performed	☐	☐	☐
☐		☐	☐	☐
☐	01 Engine	☐	☐	☐
R*	Air filter (013303)	☐	☐	☐
I	Check the coolant level and the degree of antifreeze protection in the cooling circuit (012101)	☐	☐	☐
I - R**	Clutch wear check (for cars with e-gear) (014203)(109000)	☐	☐	☐
I - A	Valve clearance (010302)	☐	☐	☐
R	Engine oil and filter (minimum once per year) (011707)(011708)	☐	☐	☐
☐		☐	☐	☐
☐	02 Fuel tank, exhaust system, heating	☐	☐	☐
I	Air conditioning system (inspection at least every year) (026001)	☐	☐	☐
R	Air conditioning system dust filters (at least every two years) (026001)(026003)	☐	☐	☐
☐		☐	☐	☐
☐	03 Transmission	☐	☐	☐
R	Gearbox rear and front differential oil (030107)(030108)	☐	☐	☐
I	Gearbox oil: check the level and clean the filter (top up the oil that leaked when cleaning the filter). (031504)	☐	☐	☐
I	Shift control support adjustment inspection (032301)	☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date:
				Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.



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SCHEDULED MAINTENANCE PLAN 15 miles (x 1000) - 24 Km (x 1000)

Type	Description	OK	NO	Rectified
I	Gearbox hydraulic fluid check and top-up e _{gear} (014201)	☐	☐	☐
		☐	☐	☐
	04 Front axle, steering / 05 Rear axle	☐	☐	☐
I	Steering components, joint protections and boots on the steering rack, steering levers and drive shafts (041901)	☐	☐	☐
I	Power steering fluid (042308)	☐	☐	☐
I	Front and rear suspension articulated joints: visual inspection and check torque is correct (041101)(051101)	☐	☐	☐
		☐	☐	☐
	06 Wheels, Brakes	☐	☐	☐
I	Brake discs and pads (061501)	☐	☐	☐
I	Braking system, pipes and calipers (060701)	☐	☐	☐
I	Brake pedal clearance and handbrake adjustment (060201)	☐	☐	☐
I	Brake and clutch fluid level (change every year) (061101)(061107)	☐	☐	☐
I	Tyres and rims: check the tyre tread, pressure and general condition (060101)	☐	☐	☐
		☐	☐	☐
	08 Body	☐	☐	☐
I	Door and hood hinges lubrication (080601)(082701)(083701)	☐	☐	☐
I	Safety belts: check of proper working conditions (086801)	☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date:
				Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.



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SCHEDULED MAINTENANCE PLAN 15 miles (x 1000) - 24 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	09 Electrical equipment	☐	☐	☐
R*	Spark plugs (090503)	☐	☐	☐
I	Battery: connections and charge (091501)	☐	☐	☐
I	Engine accessory drive belt (090301)(090303)	☐	☐	☐
I	Headlights aiming check (094101)(094102)	☐	☐	☐
I	Roll-over bar function test (applicable to the Roadster model only)	☐	☐	☐
☐		☐	☐	☐
☐	10 Diagnosi	☐	☐	☐
I	Fault memory enquiry using La-Ra and LDAS. Data printout and troubleshooting in case of error codes (109000)(109114)	☐	☐	☐
☐		☐	☐	☐
I	ROAD TEST	☐	☐	☐
☐		☐	☐	☐
☐	After servicing, complete and stamp the space provided in the warranty booklet and complete the sticker (001200) to be applied onto the door ledge	☐	☐	☐
☐		☐	☐	☐
☐		☐	☐	☐
☐		☐	☐	☐
☐		☐	☐	☐

I = Inspection and any additional service if required
A = Adjustment
R = Replacement

NOTE:

Date:

Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.



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SCHEDULED MAINTENANCE PLAN 22.5 miles (x 1000) - 36 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	Check whether this VIN is affected by any recall or service campaign to be performed	☐	☐	☐
☐		☐	☐	☐
☐	01 Engine	☐	☐	☐
I - R**	Clutch wear check (for cars with e-gear) (014203)(109000)	☐	☐	☐
R	Engine oil and filter (minimum once per year) (011707)(011708)	☐	☐	☐
☐		☐	☐	☐
☐	02 Fuel tank, exhaust system, heating	☐	☐	☐
I	Air conditioning system (inspection at least every year) (026001)	☐	☐	☐
I	Air conditioning system dust filters (at least every two years) (026001)(026003)	☐	☐	☐
☐		☐	☐	☐
☐	03 Transmission	☐	☐	☐
I	Shift control support adjustment inspection (032301)	☐	☐	☐
☐		☐	☐	☐
☐	04 Front axle, steering / 05 Rear axle	☐	☐	☐
I	Steering components, joint protections and boots on the steering rack, steering levers and drive shafts (041901)	☐	☐	☐
I	Front and rear suspension articulated joints: visual inspection and check torque is correct (041101)(051101)	☐	☐	☐
☐		☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date:
				Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.



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SCHEDULED MAINTENANCE PLAN 22.5 miles (x 1000) - 36 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	06 Wheels, Brakes	☐	☐	☐
I	Brake discs and pads (061501)	☐	☐	☐
I	Braking system, pipes and calipers (060701)	☐	☐	☐
R	Brake and clutch fluid level (change every year) (061101)(061107)	☐	☐	☐
I	Tyres and rims: check the tyre tread, pressure and general condition (060101)	☐	☐	☐
☐		☐	☐	☐
☐	08 Body	☐	☐	☐
I	Safety belts: check of proper working conditions (086801)	☐	☐	☐
☐		☐	☐	☐
☐	09 Electrical equipment	☐	☐	☐
I	Battery: connections and charge (091501)	☐	☐	☐
I	Headlights aiming check (094101)(094102)	☐	☐	☐
☐		☐	☐	☐
☐	10 Diagnosi	☐	☐	☐
I	Fault memory enquiry using La-Ra and LDAS. Data printout and troubleshooting in case of error codes (109000)(109114)	☐	☐	☐
I	ROAD TEST	☐	☐	☐
☐	After servicing, complete and stamp the space provided in the warranty booklet and complete the sticker (001200) to be applied onto the door ledge	☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date: Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.



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SCHEDULED MAINTENANCE PLAN 30 miles (x 1000) - 48 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	Check whether this VIN is affected by any recall or service campaign to be performed	☐	☐	☐
☐		☐	☐	☐
☐	01 Engine	☐	☐	☐
R	Fuel filters (012701)	☐	☐	☐
R	Air filter (013303)	☐	☐	☐
I	Injection system: lines and connections (012801)	☐	☐	☐
I	Check the coolant level and the degree of antifreeze protection in the cooling circuit (012101)	☐	☐	☐
I - R**	Clutch wear check (for cars with e-gear) (014203)(109000)	☐	☐	☐
I - A	Valve clearance (010302)	☐	☐	☐
I	Fuel evaporative emission control system (010302)	☐	☐	☐
I	Engine oil emission recirculation control system (011501)	☐	☐	☐
R	Engine oil and filter (minimum once per year) (011707)(011708)	☐	☐	☐
☐		☐	☐	☐
☐	02 Fuel tank, exhaust system, heating	☐	☐	☐
I	Air conditioning system (inspection at least every year) (026001)	☐	☐	☐
R	Air conditioning system dust filters (at least every two years) (026001)(026003)	☐	☐	☐
☐		☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date:
				Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.



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SCHEDULED MAINTENANCE PLAN 30 miles (x 1000) - 48 Km (x 1000)

Type	Description	OK	NO	Rectified
	03 Transmission			
R	Gearbox rear and front differential oil (030107)(030108)			
I	Gearbox oil: check the level and clean the filter (top up the oil that leaked when cleaning the filter). (031504)			
I	Shift control support adjustment inspection (032301)			
I	Gearbox hydraulic fluid check and top-up e _g gear (014201)			
	04 Front axle, steering / 05 Rear axle			
I	Steering components, joint protections and boots on the steering rack, steering levers and drive shafts (041901)			
I	Power steering fluid (042308)			
I	Front and rear suspension articulated joints: visual inspection and check torque is correct (041101)(051101)			
	06 Wheels, Brakes			
I	Brake discs and pads (061501)			
I	Braking system, pipes and calipers (060701)			
I	Brake pedal clearance and handbrake adjustment (060201)			
I	Brake and clutch fluid level (change every year) (061101)(061107)			
I	Tyres and rims: check the tyre tread, pressure and general condition (060101)			
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date:
				Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.



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SCHEDULED MAINTENANCE PLAN 30 miles (x 1000) - 48 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	08 Body	☐	☐	☐
I	Door and hood hinges lubrication (080601)(082701)(083701)	☐	☐	☐
I	Safety belts: check of proper working conditions (086801)	☐	☐	☐
☐		☐	☐	☐
☐	09 Electrical equipment	☐	☐	☐
R	Spark plugs (090503)	☐	☐	☐
I	Battery: connections and charge (091501)	☐	☐	☐
R	Engine accessory drive belt (090301)(090303)	☐	☐	☐
I	Headlights aiming check (094101)(094102)	☐	☐	☐
I	Roll-over bar function test (applicable to the Roadster model only)	☐	☐	☐
☐		☐	☐	☐
☐	10 Diagnosi	☐	☐	☐
I	Fault memory enquiry using La-Ra and LDAS. Data printout and troubleshooting in case of error codes (109000)(109114)	☐	☐	☐
I*	Idle speed. (  USA CANADA)	☐	☐	☐
I	ROAD TEST	☐	☐	☐
☐		☐	☐	☐
☐	After servicing, complete and stamp the space provided in the warranty booklet and complete the sticker (001200) to be applied onto the door ledge	☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date: Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.



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SCHEDULED MAINTENANCE PLAN 37.5 miles (x 1000) - 60 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	Check whether this VIN is affected by any recall or service campaign to be performed	☐	☐	☐
☐		☐	☐	☐
☐	01 Engine	☐	☐	☐
I - R**	Clutch wear check (for cars with e-gear) (014203)(109000)	☐	☐	☐
R	Engine oil and filter (minimum once per year) (011707)(011708)	☐	☐	☐
☐		☐	☐	☐
☐	02 Fuel tank, exhaust system, heating	☐	☐	☐
I	Air conditioning system (inspection at least every year) (026001)	☐	☐	☐
I	Air conditioning system dust filters (at least every two years) (026001)(026003)	☐	☐	☐
☐		☐	☐	☐
☐	03 Transmission	☐	☐	☐
I	Shift control support adjustment inspection (032301)	☐	☐	☐
☐		☐	☐	☐
☐	04 Front axle, steering / 05 Rear axle	☐	☐	☐
I	Steering components, joint protections and boots on the steering rack, steering levers and drive shafts (041901)	☐	☐	☐
I	Front and rear suspension articulated joints: visual inspection and check torque is correct (041101)(051101)	☐	☐	☐
☐		☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date:
				Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.



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SCHEDULED MAINTENANCE PLAN 37.5 miles (x 1000) - 60 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	06 Wheels, Brakes	☐	☐	☐
I	Brake discs and pads (061501)	☐	☐	☐
I	Braking system, pipes and calipers (060701)	☐	☐	☐
R	Brake and clutch fluid level (change every year) (061101)(061107)	☐	☐	☐
I	Tyres and rims: check the tyre tread, pressure and general condition (060101)	☐	☐	☐
☐		☐	☐	☐
☐	08 Body	☐	☐	☐
I	Safety belts: check of proper working conditions (086801)	☐	☐	☐
☐		☐	☐	☐
☐	09 Electrical equipment	☐	☐	☐
I	Battery: connections and charge (091501)	☐	☐	☐
I	Headlights aiming check (094101)(094102)	☐	☐	☐
☐		☐	☐	☐
☐	10 Diagnosi	☐	☐	☐
I	Fault memory enquiry using La-Ra and LDAS. Data printout and troubleshooting in case of error codes (109000)(109114)	☐	☐	☐
I	ROAD TEST	☐	☐	☐
☐	After servicing, complete and stamp the space provided in the warranty booklet and complete the sticker (001200) to be applied onto the door ledge	☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date: Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

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SCHEDULED MAINTENANCE PLAN 45 miles (x 1000) - 72 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	Check whether this VIN is affected by any recall or service campaign to be performed	☐	☐	☐
☐		☐	☐	☐
☐	01 Engine	☐	☐	☐
R*	Air filter (013303)	☐	☐	☐
I	Check the coolant level and the degree of antifreeze protection in the cooling circuit (012101)	☐	☐	☐
I - R**	Clutch wear check (for cars with e-gear) (014203)(109000)	☐	☐	☐
I - A	Valve clearance (010302)	☐	☐	☐
R	Engine oil and filter (minimum once per year) (011707)(011708)	☐	☐	☐
☐		☐	☐	☐
☐	02 Fuel tank, exhaust system, heating	☐	☐	☐
R	Oxygen sensor.	☐	☐	☐
R	Active charcoal trap.	☐	☐	☐
I	Air conditioning system (inspection at least every year) (026001)	☐	☐	☐
R	Air conditioning system dust filters (at least every two years) (026001)(026003)	☐	☐	☐
☐		☐	☐	☐
☐	03 Transmission	☐	☐	☐
R	Gearbox rear and front differential oil (030107)(030108)	☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date:
				Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.



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SCHEDULED MAINTENANCE PLAN 45 miles (x 1000) - 72 Km (x 1000)

Type	Description	OK	NO	Rectified
I	Gearbox oil: check the level and clean the filter (top up the oil that leaked when cleaning the filter). (031504)	☐	☐	☐
I	Shift control support adjustment inspection (032301)	☐	☐	☐
I	Gearbox hydraulic fluid check and top-up e-gear (014201)	☐	☐	☐
		☐	☐	☐
	04 Front axle, steering / 05 Rear axle	☐	☐	☐
I	Steering components, joint protections and boots on the steering rack, steering levers and drive shafts (041901)	☐	☐	☐
I	Power steering fluid (042308)	☐	☐	☐
I	Front and rear suspension articulated joints: visual inspection and check torque is correct (041101)(051101)	☐	☐	☐
		☐	☐	☐
	06 Wheels, Brakes	☐	☐	☐
I	Brake discs and pads (061501)	☐	☐	☐
I	Braking system, pipes and calipers (060701)	☐	☐	☐
I	Brake pedal clearance and handbrake adjustment (060201)	☐	☐	☐
I	Brake and clutch fluid level (change every year) (061101)(061107)	☐	☐	☐
I	Tyres and rims: check the tyre tread, pressure and general condition (060101)	☐	☐	☐
		☐	☐	☐
		☐	☐	☐

I = Inspection and any additional service if required
A = Adjustment
R = Replacement

NOTE:

Date:

Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.



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SCHEDULED MAINTENANCE PLAN 45 miles (x 1000) - 72 Km (x 1000)

Type	Description	OK	NO	Rectified
	08 Body			
I	Door and hood hinges lubrication (080601)(082701)(083701)			
I	Safety belts: check of proper working conditions (086801)			
	09 Electrical equipment			
R*	Spark plugs (090503)			
I	Battery: connections and charge (091501)			
I	Engine accessory drive belt (090301)(090303)			
I	Headlights aiming check (094101)(094102)			
I	Roll-over bar function test (applicable to the Roadster model only)			
	10 Diagnosi			
I	Fault memory enquiry using La-Ra and LDAS. Data printout and troubleshooting in case of error codes (109000)(109114)			
I	ROAD TEST			
	After servicing, complete and stamp the space provided in the warranty booklet and complete the sticker (001200) to be applied onto the door ledge			
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date:
				Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

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SCHEDULED MAINTENANCE PLAN 52.5 miles (x 1000) - 84 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	Check whether this VIN is affected by any recall or service campaign to be performed	☐	☐	☐
☐		☐	☐	☐
☐	01 Engine	☐	☐	☐
I - R**	Clutch wear check (for cars with e-gear) (014203)(109000)	☐	☐	☐
R	Engine oil and filter (minimum once per year) (011707)(011708)	☐	☐	☐
☐		☐	☐	☐
☐	02 Fuel tank, exhaust system, heating	☐	☐	☐
I	CO /HC concentration. (  USA CANADA)	☐	☐	☐
I	Air conditioning system (inspection at least every year) (026001)	☐	☐	☐
I	Air conditioning system dust filters (at least every two years) (026001)(026003)	☐	☐	☐
☐		☐	☐	☐
☐	03 Transmission	☐	☐	☐
I	Shift control support adjustment inspection (032301)	☐	☐	☐
☐		☐	☐	☐
☐	04 Front axle, steering / 05 Rear axle	☐	☐	☐
I	Steering components, joint protections and boots on the steering rack, steering levers and drive shafts (041901)	☐	☐	☐
I	Front and rear suspension articulated joints: visual inspection and check torque is correct (041101)(051101)	☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date: Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.



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SCHEDULED MAINTENANCE PLAN 52.5 miles (x 1000) - 84 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	06 Wheels, Brakes	☐	☐	☐
I	Brake discs and pads (061501)	☐	☐	☐
I	Braking system, pipes and calipers (060701)	☐	☐	☐
R	Brake and clutch fluid level (change every year) (061101)(061107)	☐	☐	☐
I	Tyres and rims: check the tyre tread, pressure and general condition (060101)	☐	☐	☐
☐		☐	☐	☐
☐	08 Body	☐	☐	☐
I	Safety belts: check of proper working conditions (086801)	☐	☐	☐
☐		☐	☐	☐
☐	09 Electrical equipment	☐	☐	☐
I	Battery: connections and charge (091501)	☐	☐	☐
I	Headlights aiming check (094101)(094102)	☐	☐	☐
☐		☐	☐	☐
☐	10 Diagnosi	☐	☐	☐
I	Fault memory enquiry using La-Ra and LDAS. Data printout and troubleshooting in case of error codes (109000)(109114)	☐	☐	☐
I	Crankcase emission control system. (  USA CANADA)	☐	☐	☐
☐		☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date: Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.

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Type	Description	OK	NO	Rectified
I	ROAD TEST			
	After servicing, complete and stamp the space provided in the warranty booklet and complete the sticker (001200) to be applied onto the door ledge			

I = Inspection and any additional service if required
A = Adjustment
R = Replacement

NOTE:

Date:

Stamp and signature:

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.



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SCHEDULED MAINTENANCE PLAN 60 miles (x 1000) - 96 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	Check whether this VIN is affected by any recall or service campaign to be performed	☐	☐	☐
☐		☐	☐	☐
☐	01 Engine	☐	☐	☐
R	Fuel filters (012701)	☐	☐	☐
R	Air filter (013303)	☐	☐	☐
I	Injection system: lines and connections (012801)	☐	☐	☐
I	Check the coolant level and the degree of antifreeze protection in the cooling circuit (012101)	☐	☐	☐
I - R**	Clutch wear check (for cars with e-gear) (014203)(109000)	☐	☐	☐
I - A	Valve clearance (010302)	☐	☐	☐
I	Fuel evaporative emission control system (010302)	☐	☐	☐
I	Engine oil emission recirculation control system (011501)	☐	☐	☐
R	Engine oil and filter (minimum once per year) (011707)(011708)	☐	☐	☐
☐		☐	☐	☐
☐	02 Fuel tank, exhaust system, heating	☐	☐	☐
I	Air conditioning system (inspection at least every year) (026001)	☐	☐	☐
R	Air conditioning system dust filters (at least every two years) (026001)(026003)	☐	☐	☐
☐		☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date:
				Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

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SCHEDULED MAINTENANCE PLAN 60 miles (x 1000) - 96 Km (x 1000)

Type	Description	OK	NO	Rectified
	03 Transmission			
R	Gearbox rear and front differential oil (030107)(030108)			
I	Gearbox oil: check the level and clean the filter (top up the oil that leaked when cleaning the filter). (031504)			
I	Shift control support adjustment inspection (032301)			
I	Gearbox hydraulic fluid check and top-up e _g gear (014201)			
	04 Front axle, steering / 05 Rear axle			
I	Steering components, joint protections and boots on the steering rack, steering levers and drive shafts (041901)			
I	Power steering fluid (042308)			
I	Front and rear suspension articulated joints: visual inspection and check torque is correct (041101)(051101)			
	06 Wheels, Brakes			
I	Brake discs and pads (061501)			
I	Braking system, pipes and calipers (060701)			
I	Brake pedal clearance and handbrake adjustment (060201)			
I	Brake and clutch fluid level (change every year) (061101)(061107)			
I	Tyres and rims: check the tyre tread, pressure and general condition (060101)			
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date:
				Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.



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SCHEDULED MAINTENANCE PLAN 60 miles (x 1000) - 96 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	08 Body	☐	☐	☐
I	Door and hood hinges lubrication (080601)(082701)(083701)	☐	☐	☐
I	Safety belts: check of proper working conditions (086801)	☐	☐	☐
☐		☐	☐	☐
☐	09 Electrical equipment	☐	☐	☐
R	Spark plugs (090503)	☐	☐	☐
I	Battery: connections and charge (091501)	☐	☐	☐
R	Engine accessory drive belt (090301)(090303)	☐	☐	☐
I	Headlights aiming check (094101)(094102)	☐	☐	☐
I	Roll-over bar function test (applicable to the Roadster model only)	☐	☐	☐
☐		☐	☐	☐
☐	10 Diagnosi	☐	☐	☐
I	Fault memory enquiry using La-Ra and LDAS. Data printout and troubleshooting in case of error codes (109000)(109114)	☐	☐	☐
I*	Idle speed. (  USA CANADA)	☐	☐	☐
I	ROAD TEST	☐	☐	☐
☐		☐	☐	☐
☐	After servicing, complete and stamp the space provided in the warranty booklet and complete the sticker (001200) to be applied onto the door ledge	☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date: Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

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SCHEDULED MAINTENANCE PLAN 67.5 miles (x 1000) - 108 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	Check whether this VIN is affected by any recall or service campaign to be performed	☐	☐	☐
☐		☐	☐	☐
☐	01 Engine	☐	☐	☐
I - R**	Clutch wear check (for cars with e-gear) (014203)(109000)	☐	☐	☐
R	Engine oil and filter (minimum once per year) (011707)(011708)	☐	☐	☐
☐		☐	☐	☐
☐	02 Fuel tank, exhaust system, heating	☐	☐	☐
I	Air conditioning system (inspection at least every year) (026001)	☐	☐	☐
I	Air conditioning system dust filters (at least every two years) (026001)(026003)	☐	☐	☐
☐		☐	☐	☐
☐	03 Transmission	☐	☐	☐
I	Shift control support adjustment inspection (032301)	☐	☐	☐
☐		☐	☐	☐
☐	04 Front axle, steering / 05 Rear axle	☐	☐	☐
I	Steering components, joint protections and boots on the steering rack, steering levers and drive shafts (041901)	☐	☐	☐
I	Front and rear suspension articulated joints: visual inspection and check torque is correct (041101)(051101)	☐	☐	☐
☐		☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date:
				Stamp and signature:

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SCHEDULED MAINTENANCE PLAN 67.5 miles (x 1000) - 108 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	06 Wheels, Brakes	☐	☐	☐
I	Brake discs and pads (061501)	☐	☐	☐
I	Braking system, pipes and calipers (060701)	☐	☐	☐
R	Brake and clutch fluid level (change every year) (061101)(061107)	☐	☐	☐
I	Tyres and rims: check the tyre tread, pressure and general condition (060101)	☐	☐	☐
☐		☐	☐	☐
☐	08 Body	☐	☐	☐
I	Safety belts: check of proper working conditions (086801)	☐	☐	☐
☐		☐	☐	☐
☐	09 Electrical equipment	☐	☐	☐
I	Battery: connections and charge (091501)	☐	☐	☐
I	Headlights aiming check (094101)(094102)	☐	☐	☐
☐		☐	☐	☐
☐	10 Diagnosi	☐	☐	☐
I	Fault memory enquiry using La-Ra and LDAS. Data printout and troubleshooting in case of error codes (109000)(109114)	☐	☐	☐
I	ROAD TEST	☐	☐	☐
☐	After servicing, complete and stamp the space provided in the warranty booklet and complete the sticker (001200) to be applied onto the door ledge	☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date: Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.

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Type	Description	OK	NO	Rectified
I = Inspection and any additional service if required A = Adjustment R = Replacement	NOTE:	Date:	Stamp and signature:	

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.



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SCHEDULED MAINTENANCE PLAN 75 miles (x 1000) - 120 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	Check whether this VIN is affected by any recall or service campaign to be performed	☐	☐	☐
☐		☐	☐	☐
☐	01 Engine	☐	☐	☐
R*	Air filter (013303)	☐	☐	☐
I	Check the coolant level and the degree of antifreeze protection in the cooling circuit (012101)	☐	☐	☐
I - R**	Clutch wear check (for cars with e-gear) (014203)(109000)	☐	☐	☐
I - A	Valve clearance (010302)	☐	☐	☐
R	Engine oil and filter (minimum once per year) (011707)(011708)	☐	☐	☐
☐		☐	☐	☐
☐	02 Fuel tank, exhaust system, heating	☐	☐	☐
I	Air conditioning system (inspection at least every year) (026001)	☐	☐	☐
R	Air conditioning system dust filters (at least every two years) (026001)(026003)	☐	☐	☐
☐		☐	☐	☐
☐	03 Transmission	☐	☐	☐
R	Gearbox rear and front differential oil (030107)(030108)	☐	☐	☐
I	Gearbox oil: check the level and clean the filter (top up the oil that leaked when cleaning the filter). (031504)	☐	☐	☐
I	Shift control support adjustment inspection (032301)	☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date:
				Stamp and signature:

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SCHEDULED MAINTENANCE PLAN 75 miles (x 1000) - 120 Km (x 1000)

Type	Description	OK	NO	Rectified
I	Gearbox hydraulic fluid check and top-up e _{gear} (014201)	☐	☐	☐
		☐	☐	☐
	04 Front axle, steering / 05 Rear axle	☐	☐	☐
I	Steering components, joint protections and boots on the steering rack, steering levers and drive shafts (041901)	☐	☐	☐
I	Power steering fluid (042308)	☐	☐	☐
I	Front and rear suspension articulated joints: visual inspection and check torque is correct (041101)(051101)	☐	☐	☐
		☐	☐	☐
	06 Wheels, Brakes	☐	☐	☐
I	Brake discs and pads (061501)	☐	☐	☐
I	Braking system, pipes and calipers (060701)	☐	☐	☐
I	Brake pedal clearance and handbrake adjustment (060201)	☐	☐	☐
I	Brake and clutch fluid level (change every year) (061101)(061107)	☐	☐	☐
I	Tyres and rims: check the tyre tread, pressure and general condition (060101)	☐	☐	☐
		☐	☐	☐
	08 Body	☐	☐	☐
I	Door and hood hinges lubrication (080601)(082701)(083701)	☐	☐	☐
I	Safety belts: check of proper working conditions (086801)	☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date:
				Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

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SCHEDULED MAINTENANCE PLAN 75 miles (x 1000) - 120 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	09 Electrical equipment	☐	☐	☐
R*	Spark plugs (090503)	☐	☐	☐
I	Battery: connections and charge (091501)	☐	☐	☐
I	Engine accessory drive belt (090301)(090303)	☐	☐	☐
I	Headlights aiming check (094101)(094102)	☐	☐	☐
I	Roll-over bar function test (applicable to the Roadster model only)	☐	☐	☐
☐		☐	☐	☐
☐	10 Diagnosi	☐	☐	☐
I	Fault memory enquiry using La-Ra and LDAS. Data printout and troubleshooting in case of error codes (109000)(109114)	☐	☐	☐
☐		☐	☐	☐
I	ROAD TEST	☐	☐	☐
☐		☐	☐	☐
☐	After servicing, complete and stamp the space provided in the warranty booklet and complete the sticker (001200) to be applied onto the door ledge	☐	☐	☐
☐		☐	☐	☐
☐		☐	☐	☐
☐		☐	☐	☐
☐		☐	☐	☐

I = Inspection and any additional service if required
A = Adjustment
R = Replacement

NOTE:

Date:

Stamp and signature:

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USA
CANADA



SCHEDULED MAINTENANCE PLAN 82.5 miles (x 1000) - 132 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	Check whether this VIN is affected by any recall or service campaign to be performed	☐	☐	☐
☐		☐	☐	☐
☐	01 Engine	☐	☐	☐
I - R**	Clutch wear check (for cars with e-gear) (014203)(109000)	☐	☐	☐
R	Engine oil and filter (minimum once per year) (011707)(011708)	☐	☐	☐
☐		☐	☐	☐
☐	02 Fuel tank, exhaust system, heating	☐	☐	☐
I	Air conditioning system (inspection at least every year) (026001)	☐	☐	☐
I	Air conditioning system dust filters (at least every two years) (026001)(026003)	☐	☐	☐
☐		☐	☐	☐
☐	03 Transmission	☐	☐	☐
I	Shift control support adjustment inspection (032301)	☐	☐	☐
☐		☐	☐	☐
☐	04 Front axle, steering / 05 Rear axle	☐	☐	☐
I	Steering components, joint protections and boots on the steering rack, steering levers and drive shafts (041901)	☐	☐	☐
I	Front and rear suspension articulated joints: visual inspection and check torque is correct (041101)(051101)	☐	☐	☐
☐		☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date:
				Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

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USA
CANADA



SCHEDULED MAINTENANCE PLAN 82.5 miles (x 1000) - 132 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	06 Wheels, Brakes	☐	☐	☐
I	Brake discs and pads (061501)	☐	☐	☐
I	Braking system, pipes and calipers (060701)	☐	☐	☐
R	Brake and clutch fluid level (change every year) (061101)(061107)	☐	☐	☐
I	Tyres and rims: check the tyre tread, pressure and general condition (060101)	☐	☐	☐
☐		☐	☐	☐
☐	08 Body	☐	☐	☐
I	Safety belts: check of proper working conditions (086801)	☐	☐	☐
☐		☐	☐	☐
☐	09 Electrical equipment	☐	☐	☐
I	Battery: connections and charge (091501)	☐	☐	☐
I	Headlights aiming check (094101)(094102)	☐	☐	☐
☐		☐	☐	☐
☐	10 Diagnosi	☐	☐	☐
I	Fault memory enquiry using La-Ra and LDAS. Data printout and troubleshooting in case of error codes (109000)(109114)	☐	☐	☐
I	ROAD TEST	☐	☐	☐
☐	After servicing, complete and stamp the space provided in the warranty booklet and complete the sticker (001200) to be applied onto the door ledge	☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date: Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

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USA
CANADA



SCHEDULED MAINTENANCE PLAN 90 miles (x 1000) - 144 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	Check whether this VIN is affected by any recall or service campaign to be performed	☐	☐	☐
☐		☐	☐	☐
☐	01 Engine	☐	☐	☐
R	Fuel filters (012701)	☐	☐	☐
R	Air filter (013303)	☐	☐	☐
I	Injection system: lines and connections (012801)	☐	☐	☐
I	Check the coolant level and the degree of antifreeze protection in the cooling circuit (012101)	☐	☐	☐
I - R**	Clutch wear check (for cars with e-gear) (014203)(109000)	☐	☐	☐
I - A	Valve clearance (010302)	☐	☐	☐
I	Fuel evaporative emission control system (010302)	☐	☐	☐
I	Engine oil emission recirculation control system (011501)	☐	☐	☐
R	Engine oil and filter (minimum once per year) (011707)(011708)	☐	☐	☐
☐		☐	☐	☐
☐	02 Fuel tank, exhaust system, heating	☐	☐	☐
I	Air conditioning system (inspection at least every year) (026001)	☐	☐	☐
R	Air conditioning system dust filters (at least every two years) (026001)(026003)	☐	☐	☐
☐		☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date: Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.

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SCHEDULED MAINTENANCE PLAN 90 miles (x 1000) - 144 Km (x 1000)

Type	Description	OK	NO	Rectified
	03 Transmission			
R	Gearbox rear and front differential oil (030107)(030108)			
I	Gearbox oil: check the level and clean the filter (top up the oil that leaked when cleaning the filter). (031504)			
I	Shift control support adjustment inspection (032301)			
I	Gearbox hydraulic fluid check and top-up e _g gear (014201)			
	04 Front axle, steering / 05 Rear axle			
I	Steering components, joint protections and boots on the steering rack, steering levers and drive shafts (041901)			
I	Power steering fluid (042308)			
I	Front and rear suspension articulated joints: visual inspection and check torque is correct (041101)(051101)			
	06 Wheels, Brakes			
I	Brake discs and pads (061501)			
I	Braking system, pipes and calipers (060701)			
I	Brake pedal clearance and handbrake adjustment (060201)			
I	Brake and clutch fluid level (change every year) (061101)(061107)			
I	Tyres and rims: check the tyre tread, pressure and general condition (060101)			
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date:
				Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

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SCHEDULED MAINTENANCE PLAN 90 miles (x 1000) - 144 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	08 Body	☐	☐	☐
I	Door and hood hinges lubrication (080601)(082701)(083701)	☐	☐	☐
I	Safety belts: check of proper working conditions (086801)	☐	☐	☐
☐		☐	☐	☐
☐	09 Electrical equipment	☐	☐	☐
R	Spark plugs (090503)	☐	☐	☐
I	Battery: connections and charge (091501)	☐	☐	☐
R	Engine accessory drive belt (090301)(090303)	☐	☐	☐
I	Headlights aiming check (094101)(094102)	☐	☐	☐
I	Roll-over bar function test (applicable to the Roadster model only)	☐	☐	☐
☐		☐	☐	☐
☐	10 Diagnosi	☐	☐	☐
I	Fault memory enquiry using La-Ra and LDAS. Data printout and troubleshooting in case of error codes (109000)(109114)	☐	☐	☐
☐		☐	☐	☐
I	ROAD TEST	☐	☐	☐
☐		☐	☐	☐
☐	After servicing, complete and stamp the space provided in the warranty booklet and complete the sticker (001200) to be applied onto the door ledge	☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date: Stamp and signature:

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SCHEDULED MAINTENANCE PLAN 97.5 miles (x 1000) - 156 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	Check whether this VIN is affected by any recall or service campaign to be performed	☐	☐	☐
☐		☐	☐	☐
☐	01 Engine	☐	☐	☐
I - R**	Clutch wear check (for cars with e-gear) (014203)(109000)	☐	☐	☐
R	Engine oil and filter (minimum once per year) (011707)(011708)	☐	☐	☐
☐		☐	☐	☐
☐	02 Fuel tank, exhaust system, heating	☐	☐	☐
I	Air conditioning system (inspection at least every year) (026001)	☐	☐	☐
I	Air conditioning system dust filters (at least every two years) (026001)(026003)	☐	☐	☐
☐		☐	☐	☐
☐	03 Transmission	☐	☐	☐
I	Shift control support adjustment inspection (032301)	☐	☐	☐
☐		☐	☐	☐
☐	04 Front axle, steering / 05 Rear axle	☐	☐	☐
I	Steering components, joint protections and boots on the steering rack, steering levers and drive shafts (041901)	☐	☐	☐
I	Front and rear suspension articulated joints: visual inspection and check torque is correct (041101)(051101)	☐	☐	☐
☐		☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date:
				Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

** Use the diagnostic tool to check the condition of the disks. Replace the clutch if the wear exceeds the value indicated in the workshop manual.

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SCHEDULED MAINTENANCE PLAN 97.5 miles (x 1000) - 156 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	06 Wheels, Brakes	☐	☐	☐
I	Brake discs and pads (061501)	☐	☐	☐
I	Braking system, pipes and calipers (060701)	☐	☐	☐
R	Brake and clutch fluid level (change every year) (061101)(061107)	☐	☐	☐
I	Tyres and rims: check the tyre tread, pressure and general condition (060101)	☐	☐	☐
☐		☐	☐	☐
☐	08 Body	☐	☐	☐
I	Safety belts: check of proper working conditions (086801)	☐	☐	☐
☐		☐	☐	☐
☐	09 Electrical equipment	☐	☐	☐
I	Battery: connections and charge (091501)	☐	☐	☐
I	Headlights aiming check (094101)(094102)	☐	☐	☐
☐		☐	☐	☐
☐	10 Diagnosi	☐	☐	☐
I	Fault memory enquiry using La-Ra and LDAS. Data printout and troubleshooting in case of error codes (109000)(109114)	☐	☐	☐
I	ROAD TEST	☐	☐	☐
☐	After servicing, complete and stamp the space provided in the warranty booklet and complete the sticker (001200) to be applied onto the door ledge	☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date: Stamp and signature:

* Though not strictly necessary, these operations are recommended if the car has been often driven on dusty roads or in difficult road traffic condition. If these operations are not carried out during the warranty period, the warranty will NOT lapse.

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SCHEDULED MAINTENANCE PLAN 105 miles (x 1000) - 168 Km (x 1000)

Type	Description	OK	NO	Rectified
☐	Check whether this VIN is affected by any recall or service campaign to be performed	☐	☐	☐
☐		☐	☐	☐
☐	01 Engine	☐	☐	☐
R*	Air filter (013303)	☐	☐	☐
I	Check the coolant level and the degree of antifreeze protection in the cooling circuit (012101)	☐	☐	☐
I - R**	Clutch wear check (for cars with e-gear) (014203)(109000)	☐	☐	☐
I - A	Valve clearance (010302)	☐	☐	☐
R	Engine oil and filter (minimum once per year) (011707)(011708)	☐	☐	☐
☐		☐	☐	☐
☐	02 Fuel tank, exhaust system, heating	☐	☐	☐
I	CO /HC concentration.	☐	☐	☐
I	Air conditioning system (inspection at least every year) (026001)	☐	☐	☐
R	Air conditioning system dust filters (at least every two years) (026001)(026003)	☐	☐	☐
☐		☐	☐	☐
☐	03 Transmission	☐	☐	☐
R	Gearbox rear and front differential oil (030107)(030108)	☐	☐	☐
I	Gearbox oil: check the level and clean the filter (top up the oil that leaked when cleaning the filter). (031504)	☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date:
				Stamp and signature:

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SCHEDULED MAINTENANCE PLAN 105 miles (x 1000) - 168 Km (x 1000)

Type	Description	OK	NO	Rectified
I	Shift control support adjustment inspection (032301)	☐	☐	☐
I	Gearbox hydraulic fluid check and top-up e _g gear (014201)	☐	☐	☐
		☐	☐	☐
	04 Front axle, steering / 05 Rear axle	☐	☐	☐
I	Steering components, joint protections and boots on the steering rack, steering levers and drive shafts (041901)	☐	☐	☐
I	Power steering fluid (042308)	☐	☐	☐
I	Front and rear suspension articulated joints: visual inspection and check torque is correct (041101)(051101)	☐	☐	☐
		☐	☐	☐
	06 Wheels, Brakes	☐	☐	☐
I	Brake discs and pads (061501)	☐	☐	☐
I	Braking system, pipes and calipers (060701)	☐	☐	☐
I	Brake pedal clearance and handbrake adjustment (060201)	☐	☐	☐
I	Brake and clutch fluid level (change every year) (061101)(061107)	☐	☐	☐
I	Tyres and rims: check the tyre tread, pressure and general condition (060101)	☐	☐	☐
		☐	☐	☐
	08 Body	☐	☐	☐
I	Door and hood hinges lubrication (080601)(082701)(083701)	☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date: Stamp and signature:

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SCHEDULED MAINTENANCE PLAN 105 miles (x 1000) - 168 Km (x 1000)

Type	Description	OK	NO	Rectified
I	Safety belts: check of proper working conditions (086801)	☐	☐	☐
		☐	☐	☐
	09 Electrical equipment	☐	☐	☐
R*	Spark plugs (090503)	☐	☐	☐
I	Battery: connections and charge (091501)	☐	☐	☐
I	Engine accessory drive belt (090301)(090303)	☐	☐	☐
I	Headlights aiming check (094101)(094102)	☐	☐	☐
I	Roll-over bar function test (applicable to the Roadster model only)	☐	☐	☐
		☐	☐	☐
	10 Diagnosi	☐	☐	☐
I	Fault memory enquiry using La-Ra and LDAS. Data printout and troubleshooting in case of error codes (109000)(109114)	☐	☐	☐
I	Idle speed.	☐	☐	☐
I	Crankcase emission control system.	☐	☐	☐
		☐	☐	☐
I	ROAD TEST	☐	☐	☐
		☐	☐	☐
	After servicing, complete and stamp the space provided in the warranty booklet and complete the sticker (001200) to be applied onto the door ledge	☐	☐	☐
I = Inspection and any additional service if required A = Adjustment R = Replacement		NOTE:		Date:
				Stamp and signature:

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Engine

When working on vehicles equipped with LIE engine control system, the following rules must be observed:

- Never start up the engine when the electrical connection terminals are badly connected or loosened on the battery terminals;
- Do not use a fast battery charger to start the engine;
- Never disconnect the battery from the electrical system when the engine is running;



CAUTION!

To carry out the fast charging, first disconnect the battery from the electrical system.

- If the vehicle goes into a drying oven at a temperature over 80°C after varnishing, the system control units must be disassembled and removed from the vehicle;
- Do not connect/disconnect the control unit multiple connector with the ignition switch in "ON" position;
- Disconnect the LIE, PMC, GFA and ETB control unit connectors before carrying out any electrical welding on the vehicle;
- Always disconnect the LIE small connector before disconnecting the big one. When connecting again, connect the big connector before connecting the small one;
- Disconnect all the electronic control units and in particular the LIE, GFA and ETB control units.



The LIE engine control system is self-adaptive, and therefore no adjustment of the mixture strength at idle is required.



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Otto cycle 4-intake-stroke engine, 12 V cylinders at 60°, 4-valve timing system for each cylinder, double chain-controlled double overhead camshaft, intake and exhaust phase transformers, indirect MPI injection (one injector per cylinder), static electronic ignition (one coil per cylinder), variable length duct and throttle bodies controlled by its control units, liquid cooling system with double radiator, dry pan lubrication with double pump controlled by independent chain and oil radiator, gas emissions recycling system, six in two in one exhaust system with catalyst and exhaust noise control system.

Aluminium alloy and H+T silicon "open deck" type crankcase with wet inserted liners.

The cylinder heads are aluminium alloy and H+T silicon, with bronze valve guides and cast iron valve seats.

Cr Mo H+T steel crankshaft, working surfaces are hardened by gaseous nitriding. The main bearings are smooth. The main bearing caps are integrated in a block structure to give maximum stiffness.



Each time the crankshaft is undersized, it is most important to restore the surface hardness by special heat treatment.

Steel alloy cylinder liners with Nikasil-treated internal surfaces. This treatment ensures a very high surface hardness.



This type of liners cannot be lapped.

Steel connecting rods with modular head, smooth bearings at big and small ends.

Pressed light alloy pistons with three rings (two seals and one oil ring).



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The timing system consists of two overhead camshafts for each cylinder bank, controlled by double chains with phase transformer on intake and exhaust shafts. Motion is transmitted directly from the crankshaft to two gear wheels by means of a double chain. Each of these gear wheels in its turn controls the two camshafts of each head by means of double chains.

The chain tension is ensured by hydraulic chain tighteners that operate with the lubrication circuit oil.

Timing system (Fig.1)

1. Engine oil pump chain
2. Cylinder bank 7-12 timing chain
3. Cylinder bank 7-12 timing chain tightener
4. Cylinder bank 1-6 timing chain
5. Cylinder bank 1-6 timing chain tightener
6. Lower chain
7. Lower chain tightener
8. Engine oil pump chain tightener

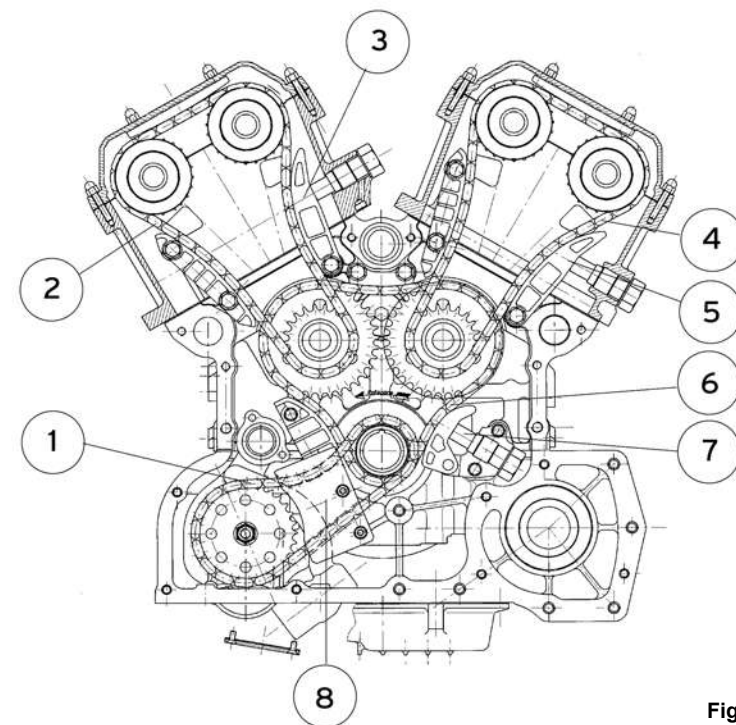


Fig.1



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The engine rotation is counterclockwise (as seen from the timing side).

The engine cylinder banks are defined as right and left hand as seen from the flywheel side.

The No. 1 cylinder is the first of the left hand cylinder bank near the flywheel, the numbering continues following a "U" towards the right hand cylinder bank.

1. Engine flywheel side
2. Timing side
3. Direction of rotation (counterclockwise from timing side)
4. Travel direction

LH = Left hand cylinder bank (cylinder bank 1-6)

RH = Right hand cylinder bank (cylinder bank 7-12)

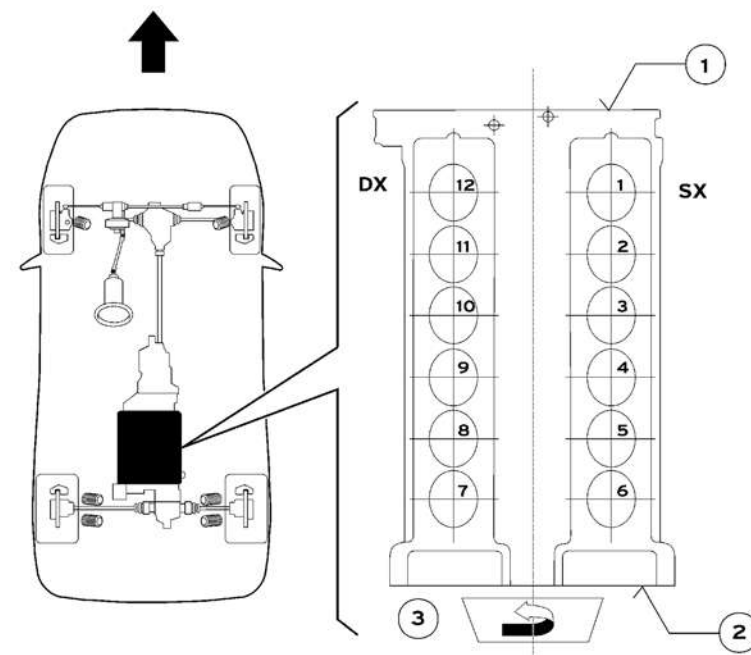


Fig.2



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Engine disassembly



This operation requires a car lift and a hoist with a rocking lever and 4 chains to sling the engine, to be fixed on the exhaust manifold hooks.

The engine-drive assembly can be removed from the rear part of the vehicle, once it has been correctly slung by means of a hoist and once all the mechanical elements, wiring harnesses, pipes and hoses which connect it to the chassis-body have been disconnected.

Preliminary Operations

- Remove completely the battery disconnect knob in order to be absolutely sure of the battery disconnection.
- Drain the air conditioning system by means of the collection/filling-up system connected to the specific port.
- Empty the engine water system and disconnect the pipes between the radiator and engine.

Engine disassembly

1. Remove the engine hood shock absorber lower mounts and remove the engine hood **(082703)**.
2. Remove the side panels and the silencer safety grid **(025103)**.
3. Remove upper part of both air filter intake boxes and disconnect the air intake pipes mounting clamps from the DBW **(013303)**.
4. Remove the rear finish grid taking care of the license plate lights **(081303 - 094303)**.
5. Disconnect the engine hood lock connectors and remove the lock **(082703)**.
6. Disassemble the engine hood **(082703)**.
7. Remove the silencer heat-proof covering **(025103)**.
8. Remove the engine compartment central panel **(081303)**.
9. Disconnect the vacuum pipes from the left and right heads.
10. Remove the upper panel.
11. Remove completely the driver side intake box.
12. Remove the fuel pipes to the injection rails and the return pipes to the tank **(012803)**.
13. Remove the oil breather pipes from the engine oil tank.
14. Remove the driver side ignition connector.
15. Remove the brake booster and NCS vacuum pipes (if present).
16. Disconnect the passenger side VIS/VES solenoid valve pipes.
17. Disconnect the driver side canister pipes.
18. Disconnect the breather pipe from the expansion tank.



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Under the vehicle

19. Drain and collect the engine oil removing the proper plug from under the oil tank (about 9 liters) **(011707)**.
20. Drain completely the oil (about 2 liters) from the oil pan removing the proper drain plug **(011707)**.
21. Disconnect the inlet and outlet pipe from the oil pan **(011703)**.
22. Unscrew the clamps and lower the exhaust terminals by keeping them a safe way **(025103)**.
23. From inside the vehicle, remove the panel and the gearshift on the tunnel **(086803)**.
24. Remove the lower front drive cross member elements **(052103)**.
25. Remove the silencer mounting devices **(025103)**.
26. Remove the front drive mounting bolts **(030103)**.
27. Remove the ground plaited cable on the left side of the engine.
28. Remove the rear axle shaft screws (6 per side) and disconnect the rear axle shafts **(050103)**.
29. Separate the shaft from the front differential **(052103)**.
30. Unscrew the two engine side 24-mm mounting bolts.
31. Disconnect the cable (positive) from the starter **(091103)**.
32. Separate the clutch oil pipe and plug its end: arrange the pipe so that it can cause no trouble.
33. Remove the axle shafts from the rear differential.
34. Support the gearbox by means of a specific lifting device by inserting a wooden piece **(A-Fig.1)** and lever by means of a crowbar to move the engine towards the rear part in order to disconnect the front differential from the drive pipe.
35. Remove the silencer mounting devices **(025103)**.

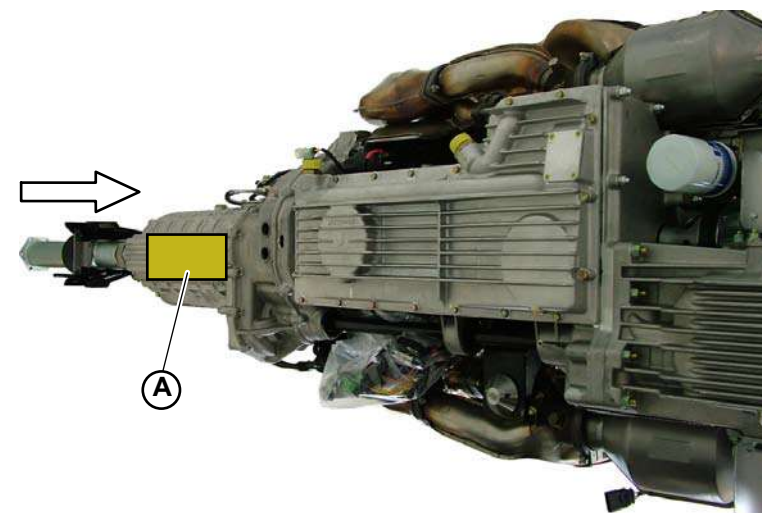


Fig.1



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36. Lower the car.
37. Remove the silencer loosening the lower mounting devices (not the bolts with bolts) **(025103)**.
38. Loose the rear stabilizer bar and move it backwards **(051103)**.
39. Remove the canister-head 1-6 pipe.
40. Disconnect the ground cables from the head 7-12.
41. Disconnect the (white) connector from the engine flywheel.
42. Disconnect the alternator cables **(090303)**.
43. Disconnect the injection (side) and the ignition (front) cables.
44. Disconnect the catalyst temperature sensors and the thermocouple and oxygen sensor cables **(025303)**.
45. Disconnect the knock sensor (4) wiring harness, the phase transformers (2) **(019003)** and the MAPS (2).
46. Remove the crossbar.
47. Remove the power steering pipes **(042303)**.
48. Remove the two silencer hood brackets.
49. Remove the air conditioning system compressor pipes **(026003)**.
50. Lift the vehicle on the car lift 20 cm from the ground.
51. Fix the four engine extraction frame hooks to the engine side eyes and lift the whole engine-drive assembly very carefully directing it by hand to prevent it from knocking any vehicle part.
52. Arrange the engine-drive assembly on a proper support.



Fig.2



**IF THERE IS AN E-GEAR, NEVER DISCONNECT THE OIL PIPES (LEAVE THE OIL PAN CONNECTED TO THE GEAR).
DISCONNECT ALL OF THE E-GEAR WIRES.**



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Engine assembly

STOP This operation requires a car lift and a hoist with a rocking lever and 4 chains to sling the engine, to be fixed on the exhaust manifold hooks.

1. Lift the vehicle on the car lift 20 cm from the ground.
2. Fix the four engine extraction frame to the engine side eyes and lift the whole engine-drive assembly very carefully directing it by hand to prevent it from hurting any vehicle part.
3. After the engine-drive assembly has been inserted, let the vehicle down the car lift.
4. Connect the air conditioning system compressor pipes **(026005)**.
5. Insert the two silencer hood brackets.
6. Insert the power steering pipes **(042305)**.
7. Connect the lower water pipe between the engine and radiator.
8. Fix the crossbar.
9. Connect the knock sensor (4) wiring harness, the phase transformers (2) **(019005)** and the MAPS (2).
10. Connect the catalyst temperature sensors **(025405)** and the thermocouple and oxygen sensor cables **(025305)**.
11. Connect the injection (side) and the ignition (front) cables.
12. Connect the alternator cables **(090305)**.
13. Connect the (white) connector to the engine flywheel.
14. Connect the ground cables from the head 7-12.
15. Insert the canister-head 1-6 pipe.
16. Fix the rear stabilizer bar and move it forwards **(051105)**.
17. Assemble the silencer tightening the rear mounting devices (not the bolts with springs) **(025105)**.
18. Lift the vehicle on the car lift.
19. Reattach the silencer mounting devices **(025105)**.

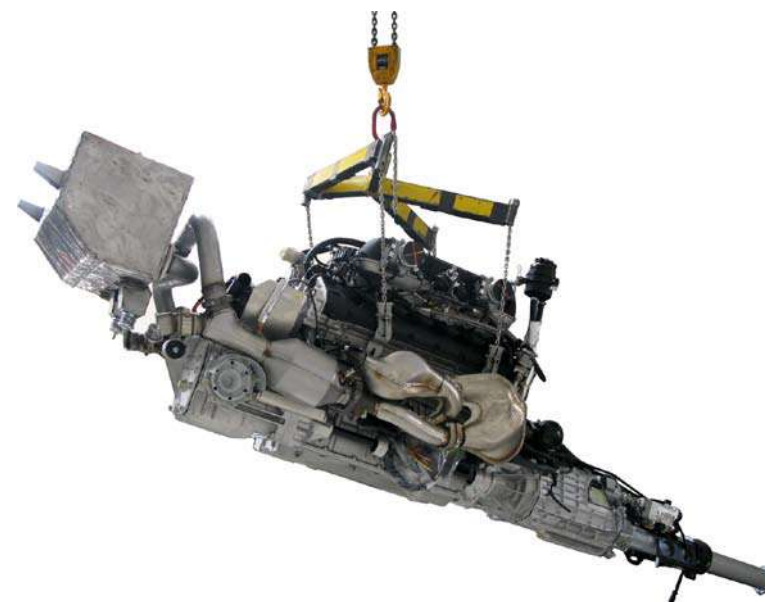


Fig.1



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Under the vehicle

20. Support the gearbox by means of a specific lifting device by inserting a wooden piece (**A-Fig.2**) and lever by means of a crowbar to move the engine towards the rear part in order to disconnect the front differential from the drive pipe.
21. Move the axle shafts toward the rear differential.
22. Remove the end of the clutch oil pipe and reconnect it.
23. Connect the cable (positive) of the starter (091105).
24. Screw the two engine side 24-mm mounting bolts.
25. Secure the shaft to the front differential (**052105**).
26. Reposition the rear axle shaft screws (6 per side) and connect the rear axle shafts (**050105**).
27. Reposition the ground plaited cable on the left side of the engine.
28. Secure the front drive mounting bolts (**030105**).
29. Connect the silencer mounting devices (**025105**).
30. Assemble the lower front drive cross member elements (**052105**).
31. From inside the vehicle assemble the panel and the gearshift on the tunnel (**086805**).
32. Tighten the clamps while protecting the exhaust terminals (**025105**).
33. Connect the inlet and outlet pipe from the oil pan (**011705**).
34. Fill the oil pan completely (about 2 liters) (**011708**).
35. Fill engine oil tank (about 9 liters) (**011708**).

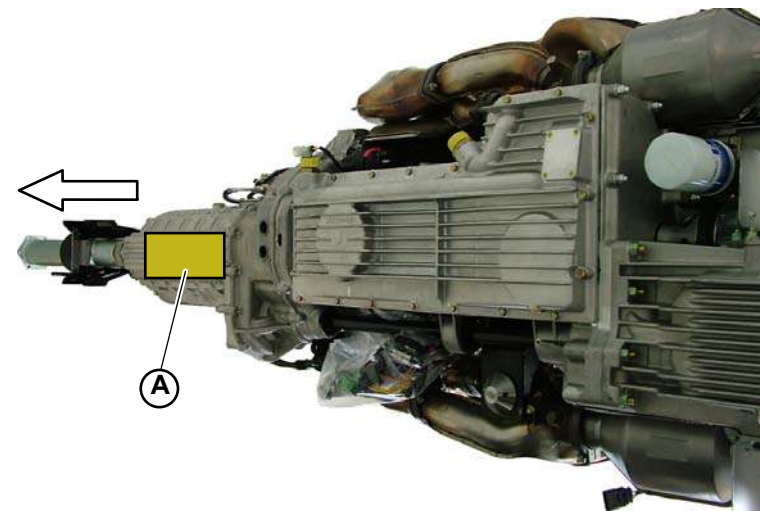


Fig.2

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36. Lower the car.
37. Connect the breather pipe from the water runnel.
38. Connect the upper water pipe between the engine and radiator.
39. Connect the driver side canister pipes.
40. Connect the passenger side VIS/VES solenoid valve pipes.
41. Position the brake booster and NCS vacuum pipes (if present).
42. Secure the driver side ignition connector.
43. Secure the oil breather pipes from the engine oil tank.
44. Secure the fuel pipes to the injection rails and the return pipes to the tank **(012805)**.
45. Reposition the driver side intake box **(013305)**.
46. Secure the upper panel.
47. Connect the vacuum pipes to the left and right heads.
48. Secure the engine compartment central panel **(081305)**.
49. Position the silencer heat-proof covering **(025105)**.
50. Assemble the engine hood lock **(082705)** and reattach the connectors.
51. Secure the rear finish grid taking care of the license plate lights **(081305 - 094305)**.
52. Assemble upper part of both air filter intake boxes and connect the air intake pipes mounting clamps **(013305)** to the DBW.
53. Assemble the side panels and the silencer safety grid **(025105)**.
54. Assemble the engine hood shock absorber lower mounts and reposition the engine hood **(082705)**.



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RECONNECT ALL OF THE E-GEAR WIRES.**

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**Engine overhaul**

- Fasten the crankcase on a turning support so that easy access to the different engine parts is guaranteed.
- Always tighten in compliance with the indicated tightening torque values and the given instructions.
- Before tightening screws and nuts, make sure that the threads and the seats are clean and covered with a thin film of engine oil.
- Remove.
- Clean thoroughly the crankcase and all the removed parts.



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Auxiliary belt

4-race type auxiliary belt.

The path is shown in the figure (**Fig.1**).

The belt tension is ensured by means of a self-adjusting mechanic-type tightener.

- A. Water pump pulley
- B. Air conditioning system pulley
- C. Alternator pulley
- D. Automatic belt tightener
- E. Engine pulley

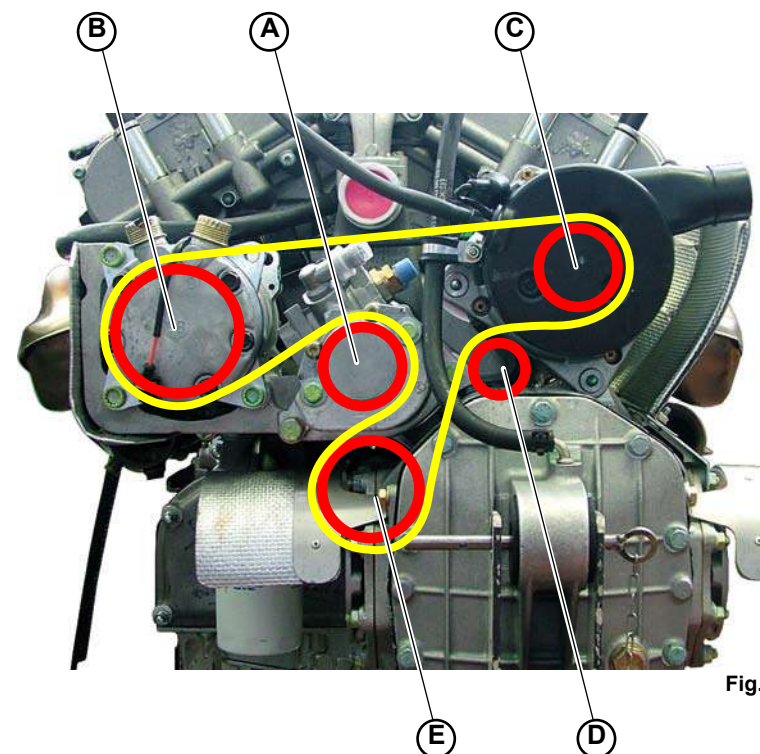


Fig.1



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Auxiliary belt disassembly

NOTE
The auxiliary belt disassembly/assembly is possible when the power train is on board; in that case, protect the parts under the pump by means of a cloth.

Preliminary operations

- Disassemble the silencer safety grid (025103).

Pump disassembly

- Remove the delivery (A-Fig.1) and intake pipe mounting clamps on the water pump and remove the pipes (B-Fig.1).

NOTE
Position a container under the vehicle to collect the coolant.

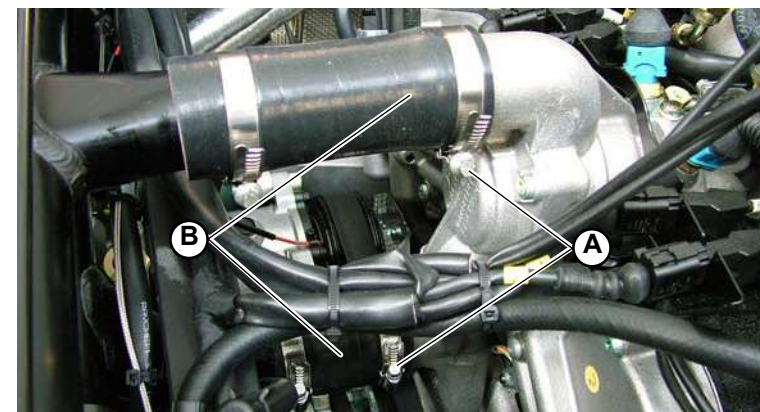


Fig.1

- Remove the rear cross member, unscrewing the 4 screws (C-Fig.2) of the two inner sides.

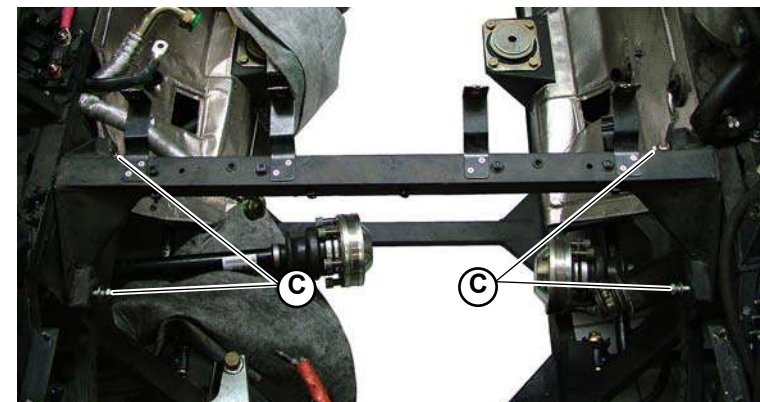


Fig.2



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3. Unscrew the 2 bolts (D-Fig.3) and the screw (E-Fig.3) and remove the heat-proof panel (F-Fig.3).

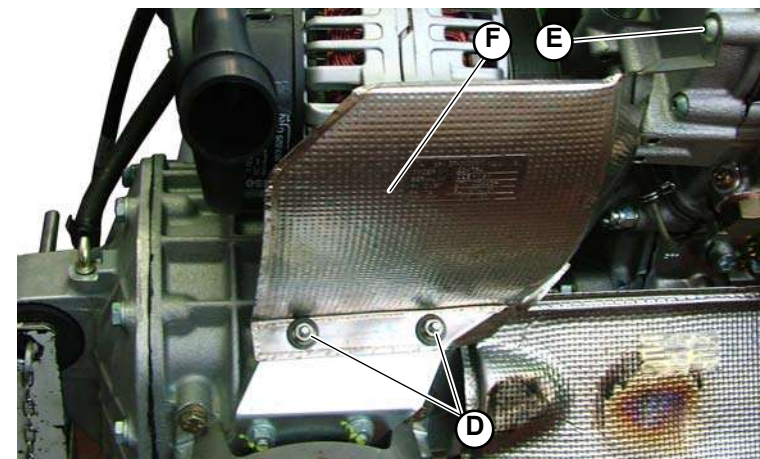


Fig.3

4. Unscrew the bolt that secures the alternator (G-Fig.4).



Fig.4



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5. Remove the belt tensioner (**E-Fig.5**) by means of a 15 mm wrench.

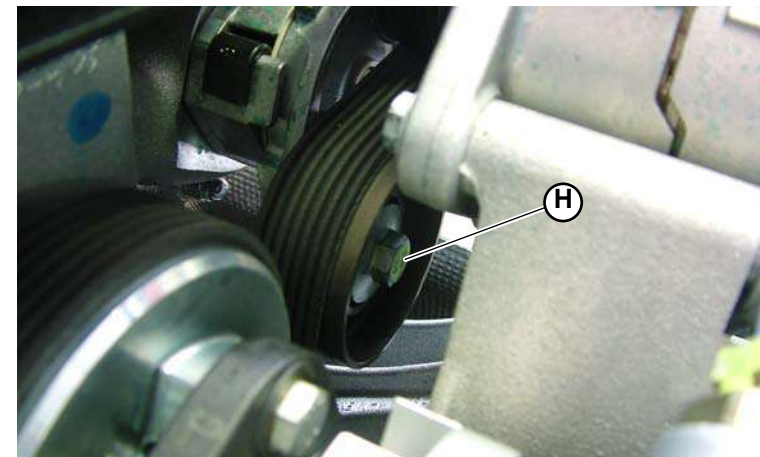


Fig.5

6. Push on the belt tensioner (**H-Fig.5/6**), push the alternator towards the center of the engine and make the belt (**I-Fig.6**) slide outside the alternator pulley; then push the alternator (**L-Fig.6**) towards the outside.
7. Make the belt slide outside the air conditioning system (**M-Fig.6**), the water pump and the engine (**N-Fig.6**) pulleys and then remove the belt.

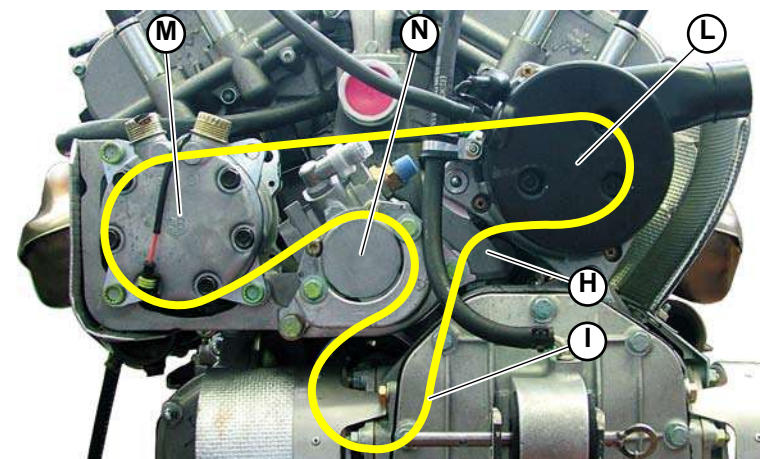


Fig.6



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Auxiliary belt assembly

1. Make the auxiliary belt (**A-Fig.1**) slide on the air conditioning system (**B-Fig.1**), water pump (**C-Fig.1**) and engine pulleys.
2. Move the alternator (**D-Fig.1**) towards the center of the engine and make the belt slide on the alternator pulley by pressing the belt tensioner (**E-Fig.1/2**).

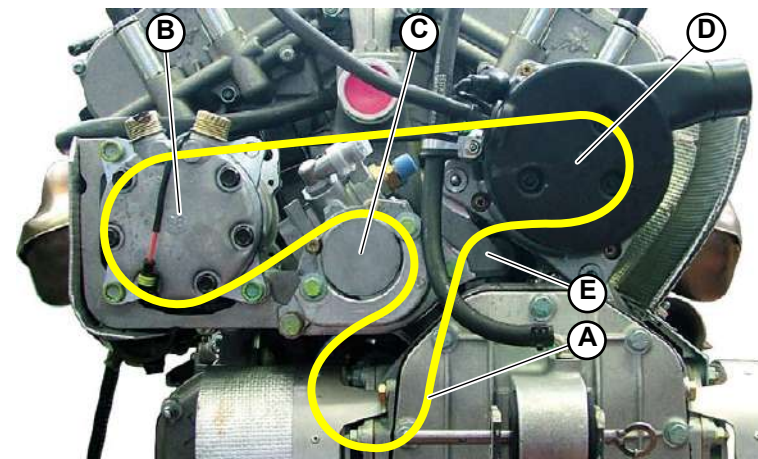


Fig.1

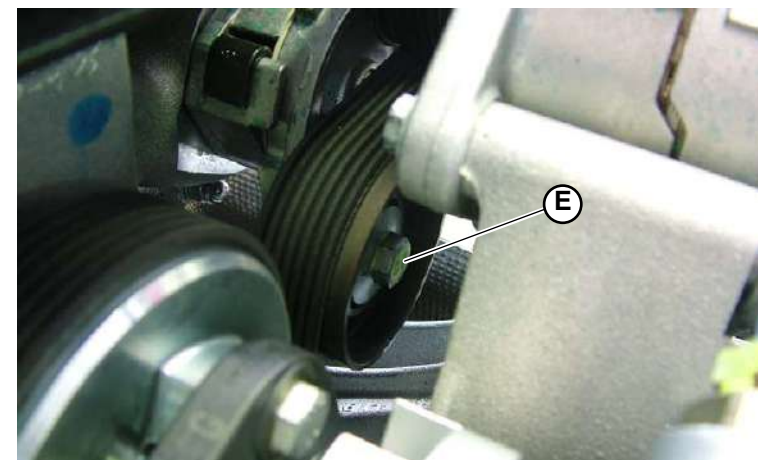


Fig.2



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3. Check for the belt correct positioning in the pulley races.

STOP Unlike the other pulleys, the A/C compressor pulley has 5 races while the belt has 4 races; THE ENGINE SIDE RACE IS TO BE LEFT FREE (Fig.3).

4. Lock the belt tensioner.

5. Tighten the bolt that secures the alternator (F-Fig.4).

6. Secure the heat-proof panel (G-Fig.5) tightening the 2 bolts (H-Fig.5) and the screw (I-Fig.5).

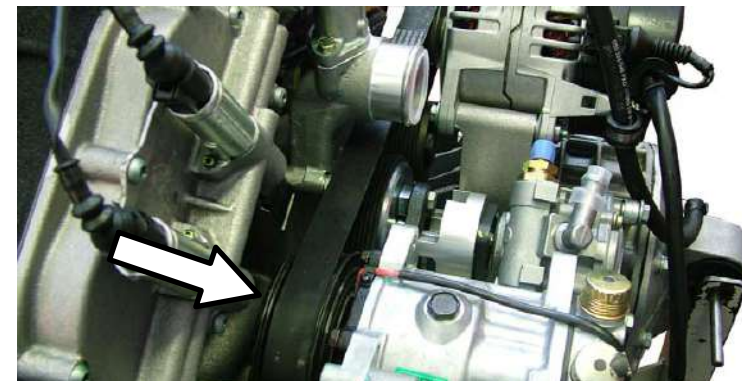


Fig.3

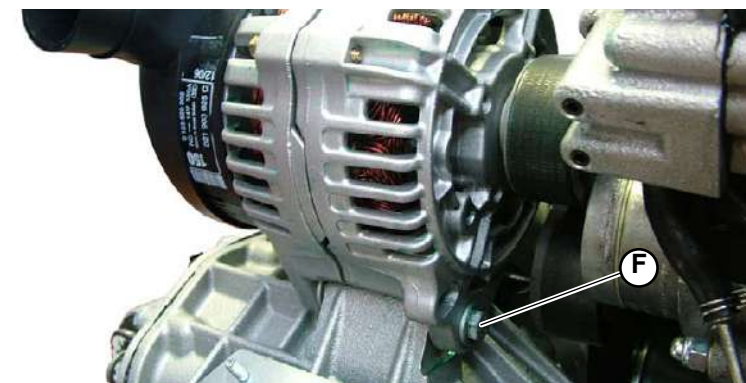


Fig.4

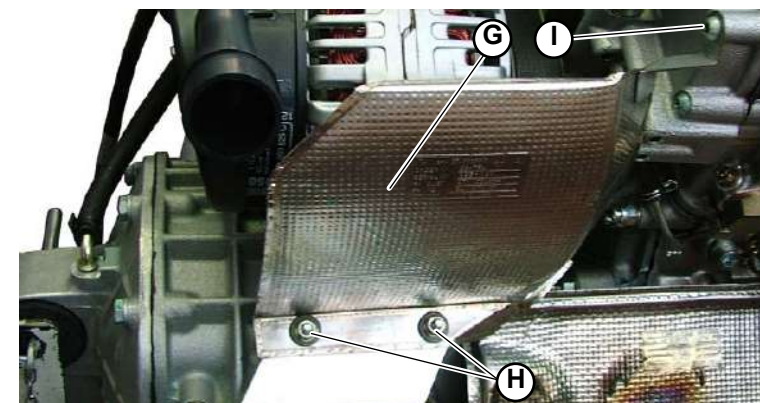


Fig.5



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7. Assemble the rear cross member, tightening the 4 screws (**L-Fig.6**) onto the two inner sides.

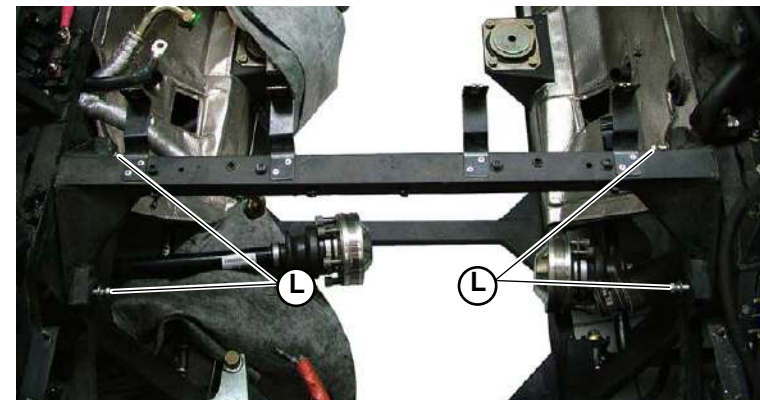


Fig.6

8. Reconnect the water pump delivery and intake pipes (**M-Fig.7**), securing them with the clamps (**N-Fig.7**).



NOTE

Top up the engine coolant (**022107**).

- Assemble the silencer safety grid (**025105**).

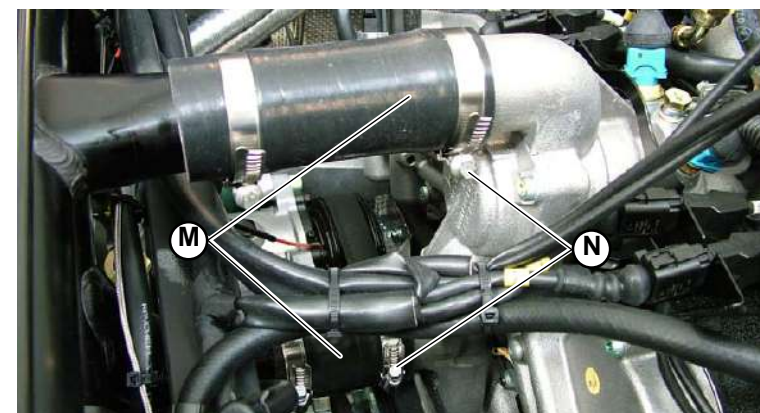
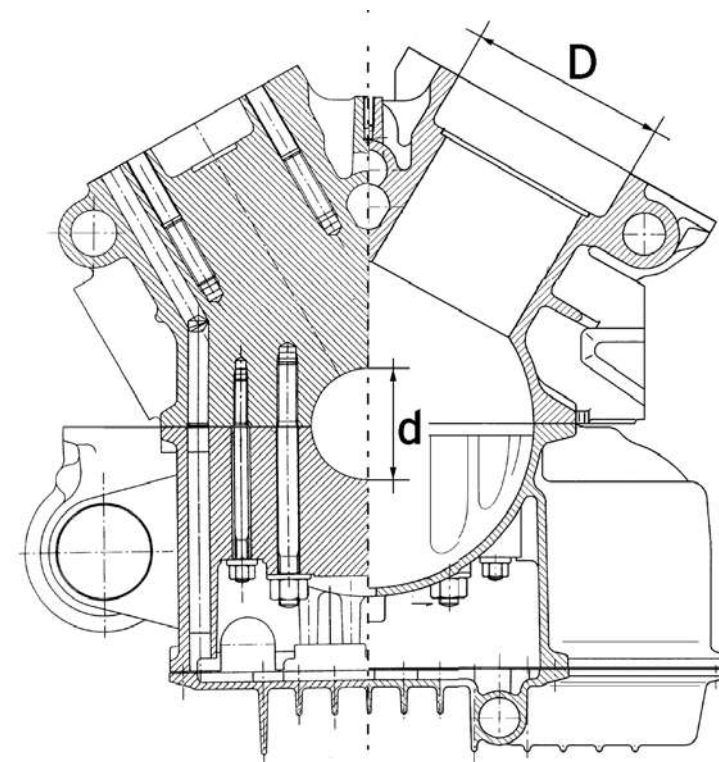


Fig.7

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Main journal seat diameter	d	66,675 ÷ 66,688
Seat diameter	D	92,000 ÷ 92,035

**Fig.1**



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The present section contains the following disassembly sequences:

- A. Head cover and head cover gaske disassembly
- B. Head and head gaske disassembly



A. Head cover and head cover gaske disassembly

Prerequisites

- Intake system removed (012903).

Disassembly

1. Remove the ignition coil (A-Fig.1).



NOTE

During the coil removal, take care not to damage them; always check after removal that the coil has its inner spark plug side contact clip and that the protection aluminium sheet is correctly positioned on the mark.
In order to prevent any dirt from entering into the cylinders, the spark plugs MUST NOT BE REMOVED.

2. Remove the phase transformer cover (011603).
3. Unscrew the 17 head cover screws (B-Fig.2) and remove the cover (C-Fig.2).
4. Remove the head cover gasket (D-Fig.3).



Fig.1

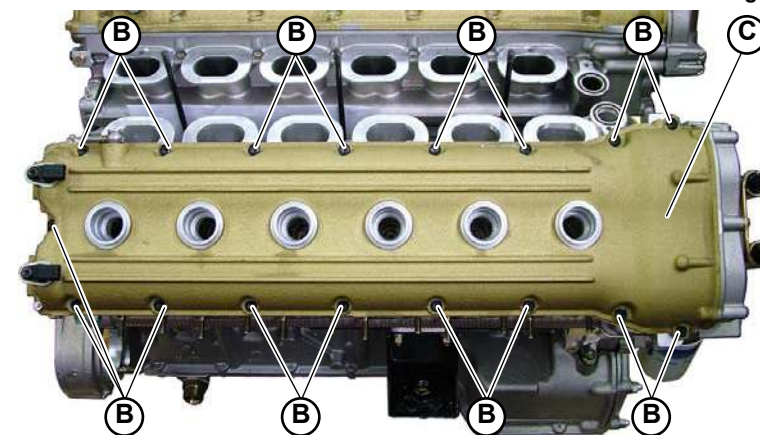


Fig.2

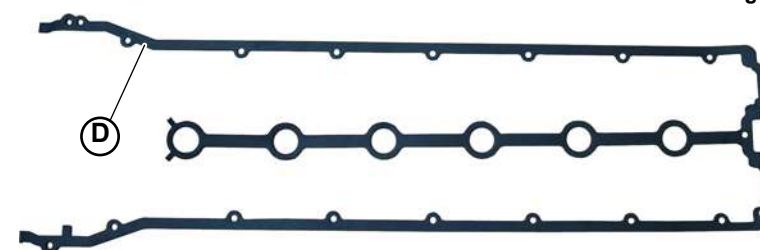


Fig.3



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B. Head and head gaske disassembly



NOTE

The head disassembly is possible only when the power train is removed.

Prerequisites

- Intake system removed (012903).
- Head cover removed (Point A).
- Power steering pump and air conditioning system compressor frame (cylinder bank 7-12) removed.
- Alternator (cylinder bank 1-6) removed (090303).

Disassembly

1. Remove the head outlet water pipe flanges (A-Fig.4).
2. Remove the head outlet water container with the thermostatic valve body (B-Fig.5).
3. Remove the exhaust manifold (025103).
4. Loosen the mounting screws (C-Fig.6) of the variable valve timing mechanisms, holding the camshafts in place with a 26 mm wrench.

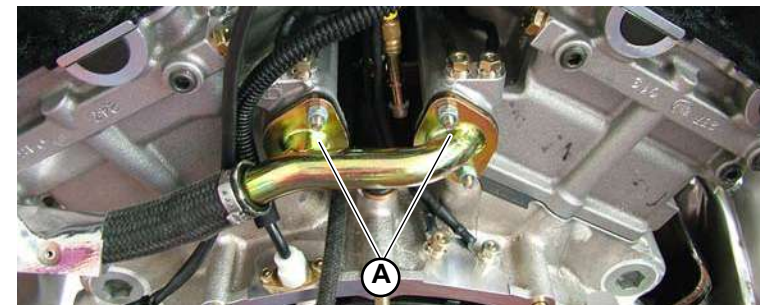


Fig.4



Fig.5



Fig.6



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5. Remove the upper timing chain hydraulic tightener (**D-Fig.7**).

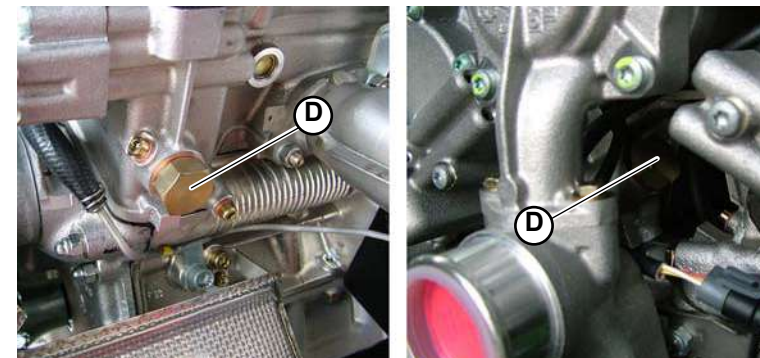


Fig.7

6. Remove the plug (**E-Fig.8**) and the locking screw (**F-Fig.8**) under the upper chain tightener shoe.

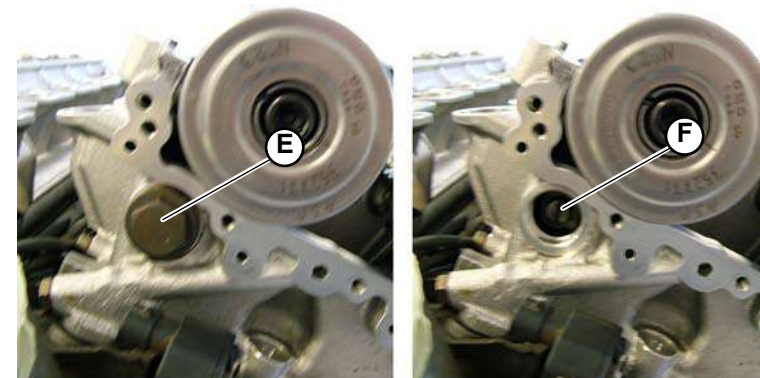


Fig.8

7. Unscrew the camshaft phase transformers (**G-Fig.9**); the backward movement of the two phase transformers must be the same, in order not to damage the upper timing chain.
8. Remove the two phase transformers and fix the upper timing chain properly (**H-Fig.9**).

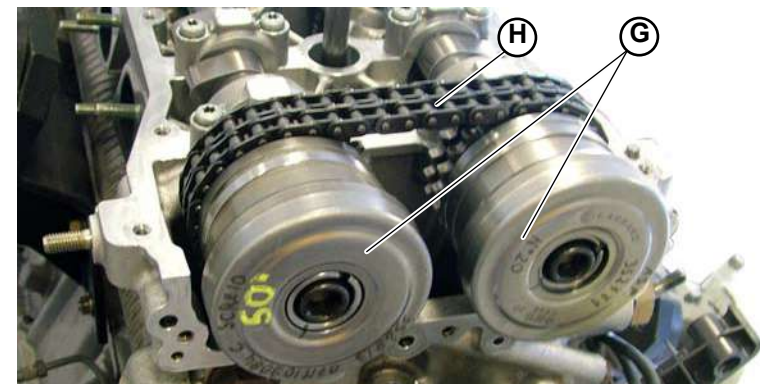


Fig.9



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9. Unscrew the bolt (I-**Fig.10**).
10. Unscrew the mounting nuts and remove the head (**Fig.10**).

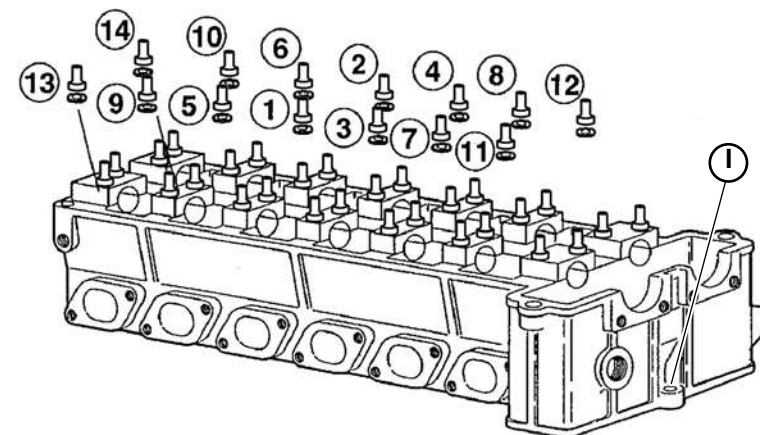


Fig.10

11. Remove the head gasket (**L-Fig.11**).
12. Remove the head oil passage O-ring (**M-Fig.11**).

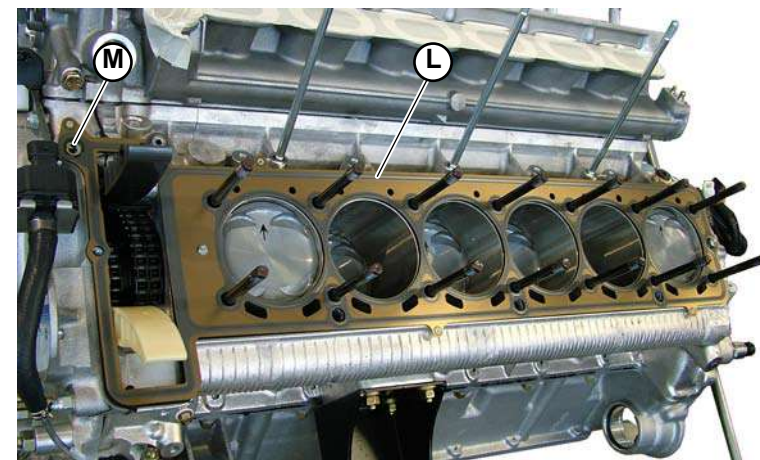


Fig.11



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The present section contains the following assembly sequences:

- A. Head cover and head cover gaske assembly
- B. Head and head gaske assembly



A. Head cover and head cover gaske assembly

1. Position the head cover gasket (**A-Fig.1**).
2. Position the head cover (**B-Fig.2**) and tighten the 17 screws (**C-Fig.2**) as necessary.
3. Assemble the phase transformer cover (**019005**).
4. Assemble the ignition coil (**D-Fig.4**).

i NOTE
During the coil removal, take care not to damage them; always check that the coil has its inner spark plug side contact clip and that the protection aluminium sheet is correctly positioned on the mark.
In order to prevent any dirt from entering into the cylinders, the spark plugs MUST NOT BE REMOVED.

- Assemble the intake system (**012905**).

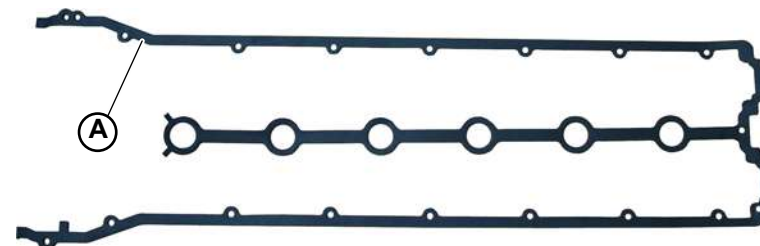


Fig.1

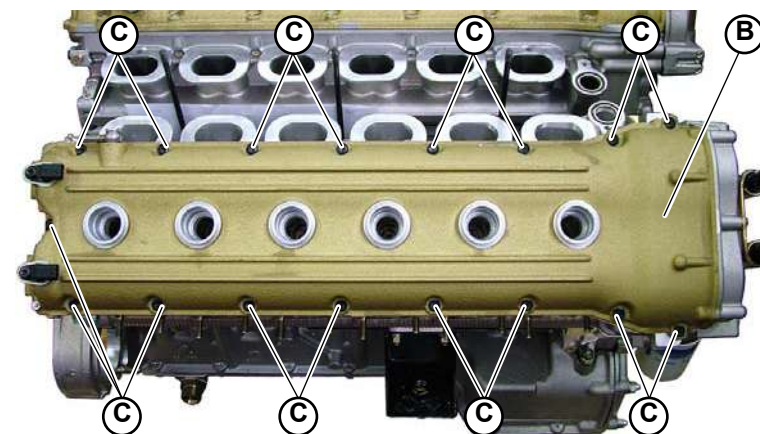


Fig.2



Fig.3



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B. Head and head gaske assembly

1. Position the new head gasket (**A-Fig.4**) taking care to carry out the step in an absolutely clean area (clean and degreased surfaces).
2. Install a new head oil flow O-ring (**B-Fig.4**).
3. Position the head taking care of recovering the upper timing chain.
4. Tighten the bolt (**C-Fig.5**).
5. Tighten the head nuts to the prescribed torque by means of Molycote 1000 and following the tightening sequence shown in the figure (**Fig.5**).

Head nuts; Tightening Torque (000800-6b).



NOTE

Tighten the nuts using the special tool (**000200**) (**Fig.6**).

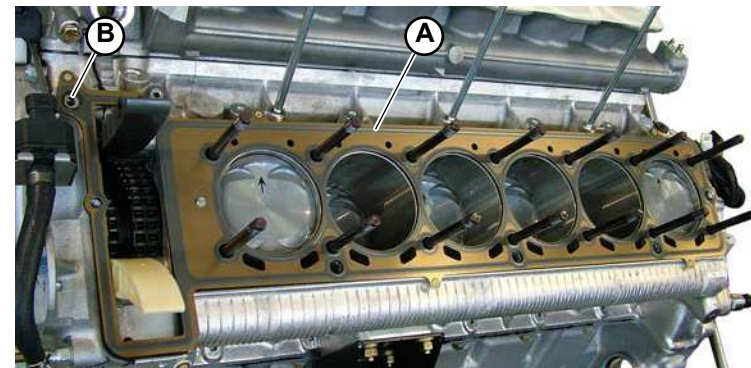


Fig.4

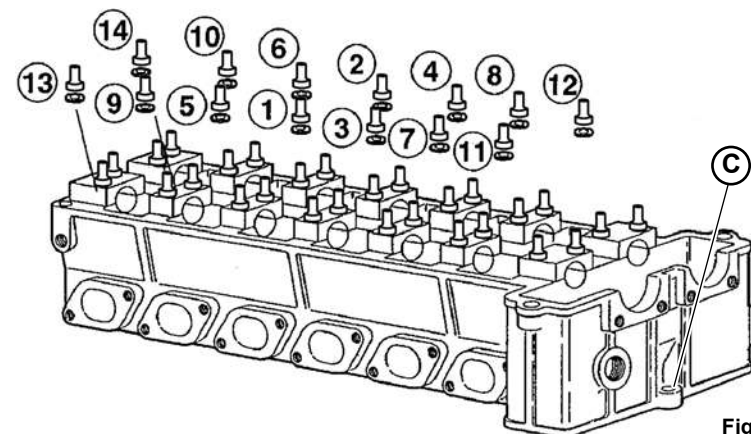


Fig.5



Fig.6



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6. Install the two phase transformers (**D-Fig.7**) with the chain (**E-Fig.7**) fitted on the camshafts.
7. Screw the two variable valve timing mechanisms onto relative camshafts without tightening them completely.
8. Move the side shoe, lock it by means of the screw (**F-Fig.8**) and then fit the plug (**G-Fig.8**).

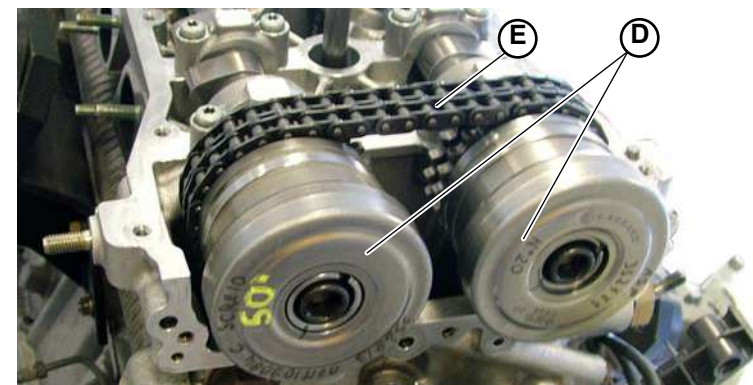


Fig.7

9. Install the hydraulic tightener with its washer (**H-Fig.9**).

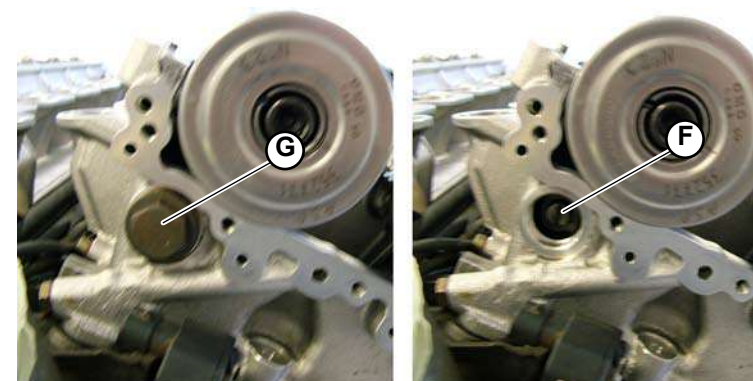


Fig.8

10. Proceed with the timing setting (**010902**).
11. Tighten the two variable valve timing mechanisms (**D-Fig.7**) completely and check the timing again (**010902**).
Screw attachment; **Tightening Torque (000800-20b)**.
12. Install the new O-rings and the head outlet water container with the thermostatic valve body (**I-Fig.10**).

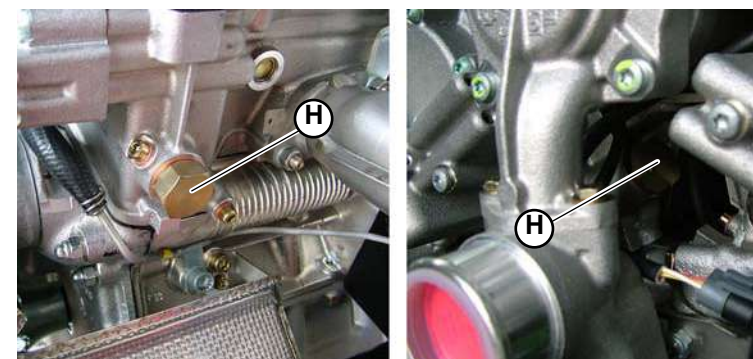


Fig.9



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13. Reinstall the exhaust manifold (025105).

14. Assemble the head outlet water pipe flanges (L-Fig.11).

15. Degrease and clean the cover and the head seats.

16. Verify the centering pin correct position.

- Assemble the alternator (cylinder bank 1-6) (090305).
- Assemble the power steering pump and air conditioning system compressor frame (cylinder bank 7-12).
- Assemble the head cover (Point A).
- Assemble the phase transformer cover (011605).
- Assemble the intake system (012905).



Fig.10



Fig.11



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Head overhaul



Before carrying out this procedure, disassemble the engine head and then continue on a work bench.

Preliminary operations

- Extract the two camshafts (**A-Fig.1**) (**010903**).
- Remove the tappets, the thickness and the valve unit from their housings (**010903**) and place them in the correct order on the workbench (**B-Fig.1**) so it is possible to re-establish their original positions when they are reassembled.
- Remove the plugs (**C-Fig.2**) so it is possible to access and clean all the ducts.

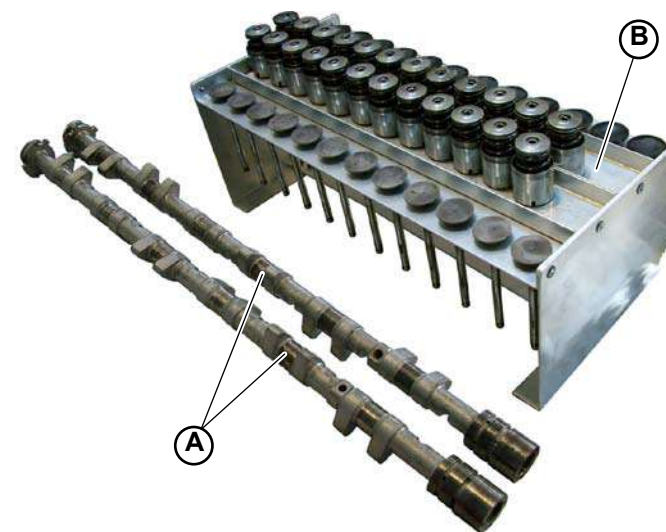


Fig.1



Fig.2



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Cleaning

1. Rub all the head support surfaces with a scouring pad (**A-Fig.3**).
2. Clean the exhausts (**B-Fig.3**) using the scraper tool.
To clean, access from the external part of the exhausts as indicated by the arrow.
3. Rub the cap with a scouring pad (**C-Fig.4**) and clean using a grease remover.
Clean (including the valve housings) using a scouring pad and grease remover (**D-Fig.4**).

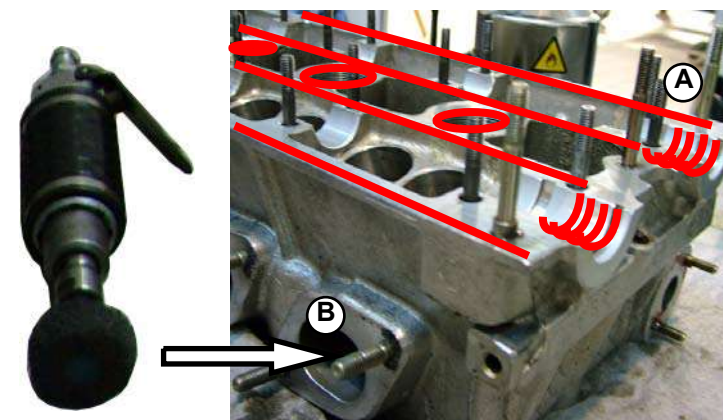


Fig.3

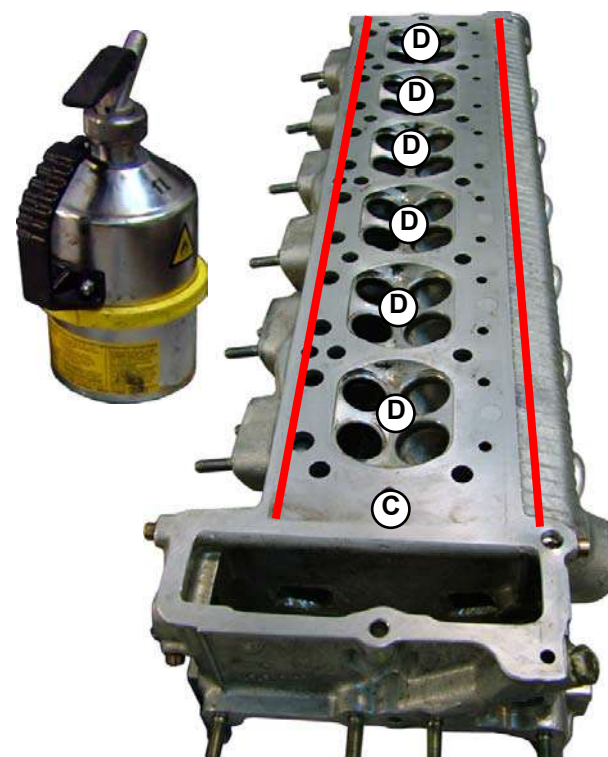


Fig.4



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4. Clean the valves (**E-Fig.5**):

- position the valve on a pillar drill. Before securing the valve to the drill, wrap tin foil around the drill-valve contact area on the valve.
- Start the pillar drill.
- While the valve is turning, clean with a scouring pad.
- Remove the valve from the drill and wash completely.

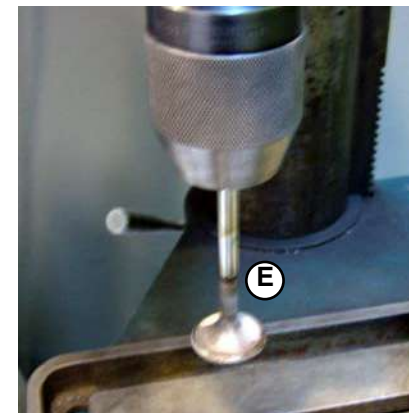


Fig.5



Take care not to spoil the valve stem.

5. Clean the tappet, spring and shim pack (**F-Fig.6**) in the following order:

- Wash.
- Remove grease.
- Blow.

6. Polish the camshaft with fine grain paper to remove any stains.

7. To clean the oil holes (**G-Fig.6**) on the camshaft, blow and then use a wire to completely clear any blockages.

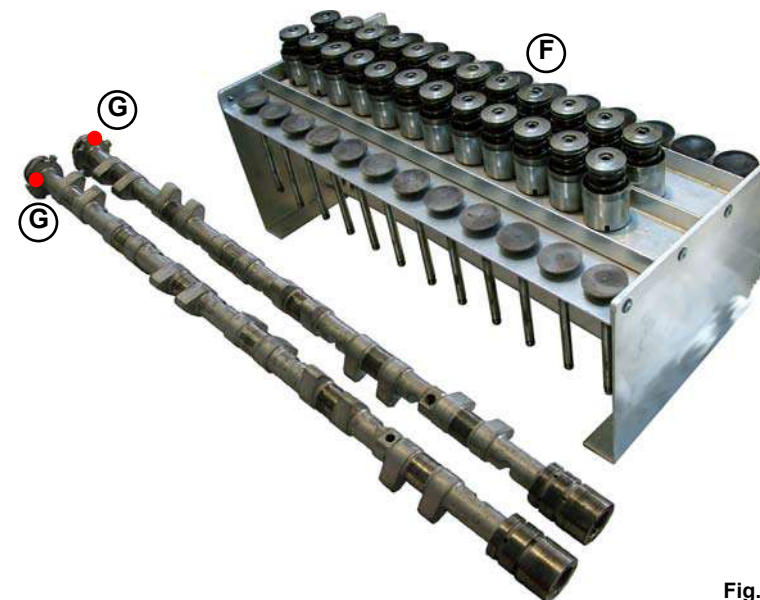


Fig.6



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8. Blow all the oil ducts on the head to remove any impurities.
9. Remove any trace of gaskets on the couplings and carefully clean the area.
10. Check the seal:
 - Position all the valves in their housings (**H-Fig.7**) and lubricate with a drop of oil.
 - Position the pad of the seal test machine on the mouthpiece (**I-Fig.7**).
 - Start the machine and check the data readings:

0.6 - 1 bar

- If the seal does not comply with the values indicated above, check the fit of the valves in their housings. If the problem persists, use emery paste:
 - a. Apply the emery paste on the support base of the valve;
 - b. Insert the valve in its housing;
 - c. Turn the valve briefly to allow the emery paste to have an effect;
 - d. Remove the valve from its housing and carefully clean both.
11. Completely re-clean the head.
Also clean the intake/exhaust ducts using a rag soaked in a grease remover. If necessary, use a wire to clear any blockages.

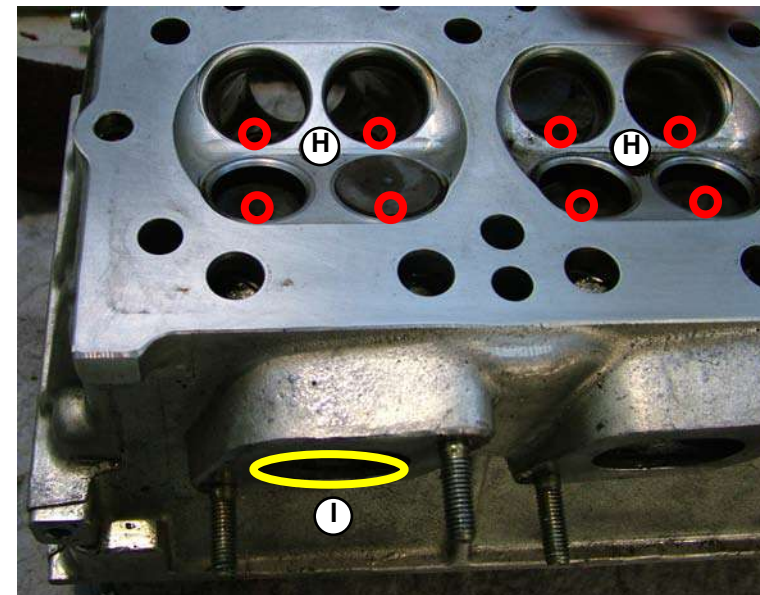


Fig.7



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Assembling the head:

- Reassemble the tappets, the thickness and the valve unit in their housings **(010905)**, placing them in the correct order.
- Assemble the two camshafts **(010905)**.



Lubricate with oil during the assembly procedure.

- Shim the valves **(010902)**.



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Main and connecting rod journals surface hardness		HVI630
Main and connecting rod journals surface finish		0.2 micron
Main journals	Rated diameter D	62.966 ÷ 62.979
Shoulders	Rated width	40.070 ÷ 40.100
	Oversized thickness	40.578 ÷ 40.608
Bushing/shaft clearance		0.010 ÷ 0.050
Crankshaft axial clearance		0.155 ÷ 0.315

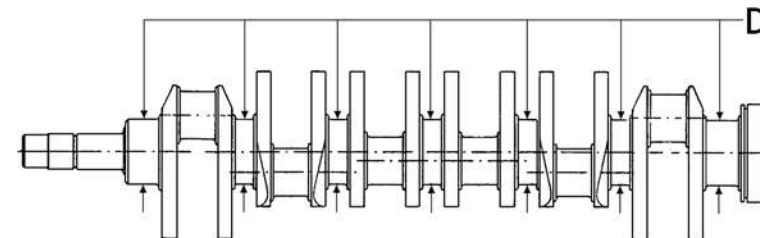


Fig.1

Piston pin seat diameter	d	20.020 ÷ 20.030
Connecting rod small end bushing seat diameter	D	48.626 ÷ 48.642
Connecting rod big end width		19.000 ÷ 19.050
Connecting rod small end width		19.900 ÷ 19.950
Distance between centers	i	134.270 ÷ 134.330
Piston pin assembly clearance		0.020 ÷ 0.080
Connecting rod small end bushing assembly clearance		0.020 ÷ 0.080
Connecting rod journal bearings assembly clearance on crankshaft		0.024 ÷ 0.067

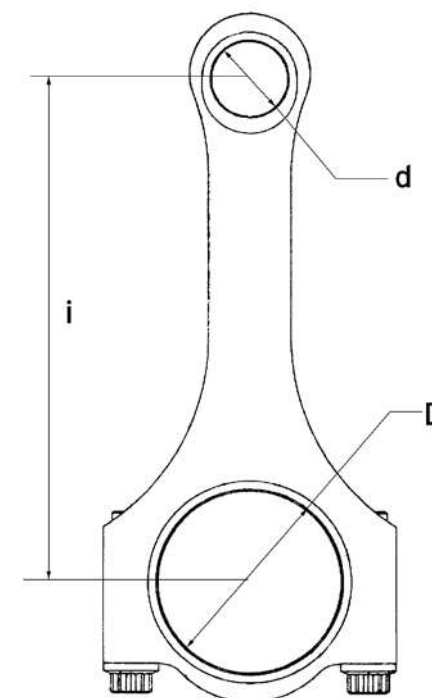


Fig.2



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Crankshaft axial clearance check

1. Install the dial gauge as shown in the figure (A-Fig.1).
2. Reset the dial gauge and by means of the specific tool move the crankshaft axially; the reading on the dial gauge must be:

Crankshaft axial clearance: 0.155 - 0.315 mm.

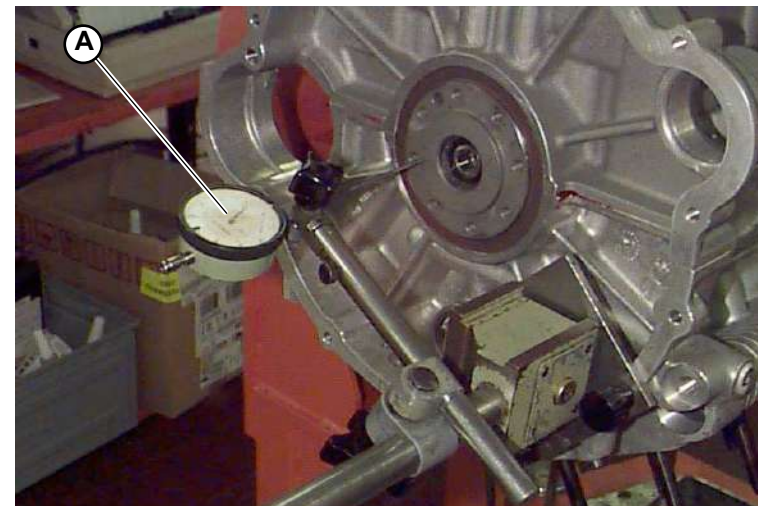


Fig.1

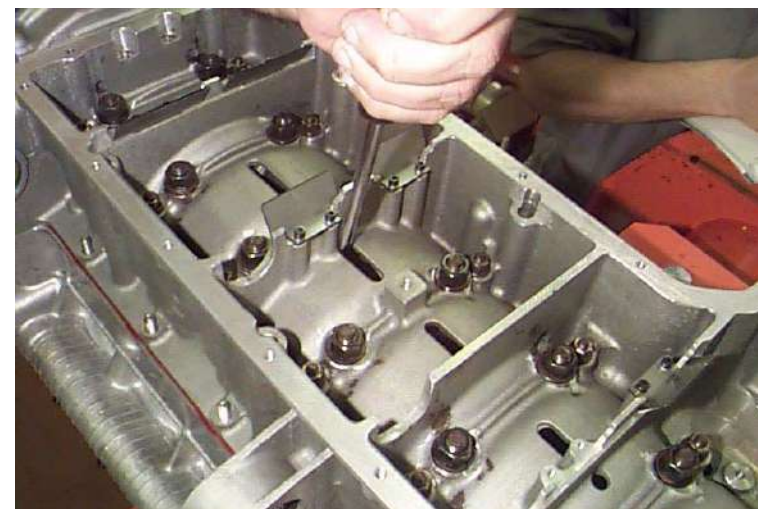


Fig.2



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Crankshaft and bearing disassemble

Preliminary operations

- Engine disassemble (010003)
- Thermostatic valve disassemble (012103)
- Gearbox disassemble (030103)
- Silencer and exhaust terminals disassemble (025103)
- Exhaust manifolds disassemble (025103)
- Air intake manifold disassemble (012903)
- Alternator, power steering pump and air conditioning system compressor frame disassemble.
- Head disassemble (010303)
- Rear differential disassemble (050903)
- Disassemble the front crankshaft pulley
- Timing system cover disassemble (019003)
- Disassemble the oil pan
- Disassemble the oil draft pipe
- Timing system chain disassemble (019003)
- Oil pump disassemble (011503)

Crankshaft and bearing disassemble

1. Fix the crankcase with the lower part facing upwards.
2. Unscrew the bolts which mount the crankcase to the lower part of the crankcase (Fig.1).
3. Remove the lower part of the crankcase.
4. Remove the connecting rods and the pistons.
5. Remove the crankshaft by means of a specific lifting device (Fig.2).
6. Check the crankshaft thoroughly for wear or scratches.
7. Remove the bushings from the lower and upper parts of the crankcase (Fig.3).

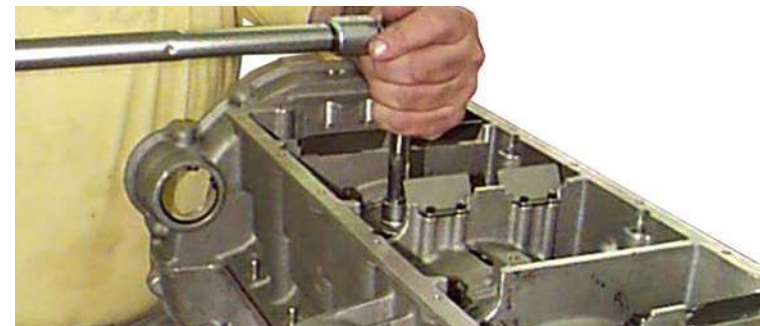


Fig.1

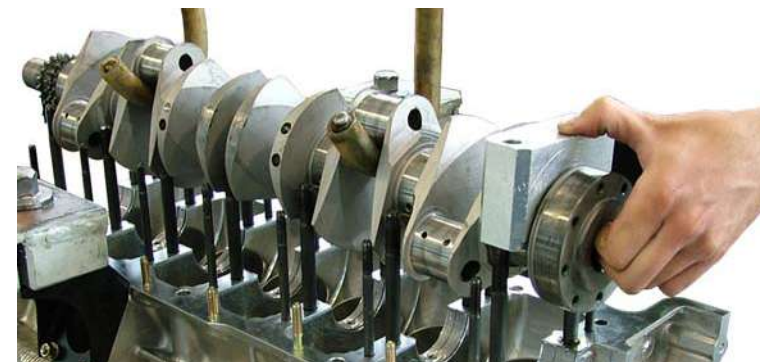


Fig.2



Fig.3



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8. Check for excessive wear and/or scratches.
9. Remove the lock snap ring and the crankshaft bearing (**Fig.4**).

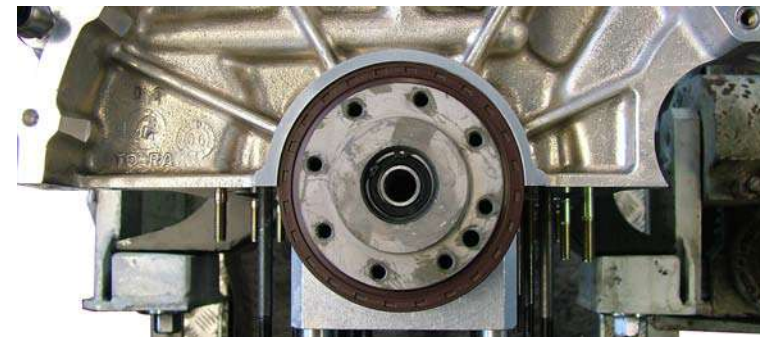


Fig.4

Piston-connecting rod assy disassemble

10. Remove the connecting rod caps.
11. Remove the piston from the big end side.

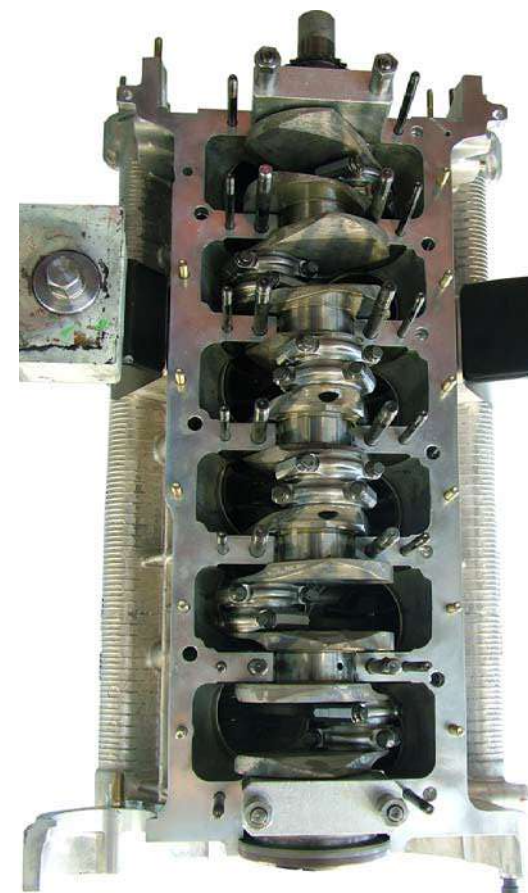


Fig.5



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Crankshaft assembly

1. Clean thoroughly and blow compressed air on to the crankcase parts and the crankshaft.
2. Apply engine oil on the crankshaft and on the bushings.
3. Install the bushings on the lower and upper parts of the crankcase (**Fig.1**).
4. Install the 4 crankshaft half shims (**B-Fig.2**); the half shim mark must lock against the upper part of the crankcase.



NOTE

Each half shim has two milled sections for the oil flow to the bushing. These concavities must face the crankshaft shoulders. Use grease to facilitate the positioning of the half shims.

5. Fit the crankshaft into place.
6. Install the crankshaft bearing and lock it by means of the snap ring.



Fig.1

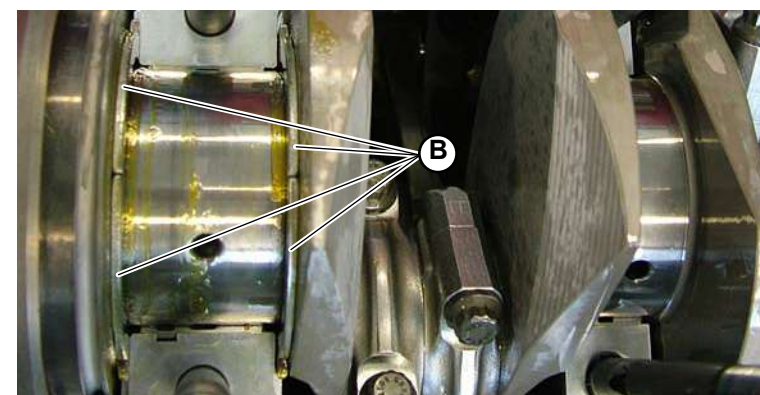
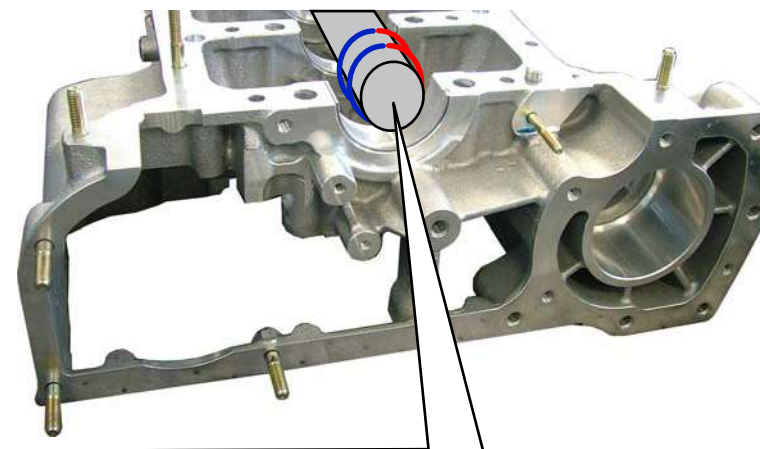


Fig.2



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7. Assemble the mounting supports on the crankshaft (**C-Fig.3**).



NOTE

After positioning the shaft, lubricate with (**Fig.3**).

8. Install the engine oil seal by means of (**000200**) tool (**D-Fig.3**).

9. Install the connecting rods and the pistons.

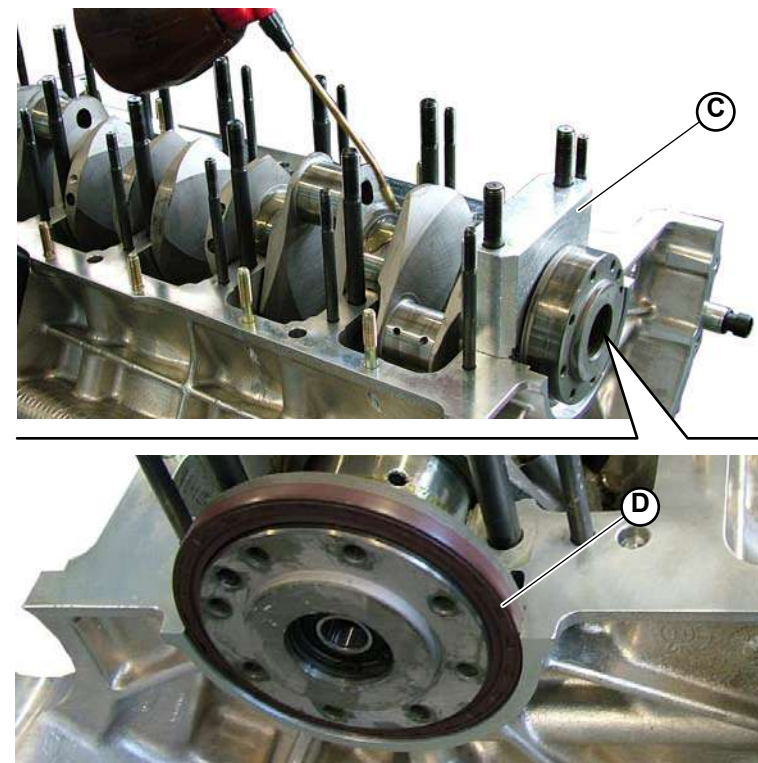


Fig.3

Closing the crankcase

10. If it has not been done yet, erase any trace of paste by means of a small scraper and clean thoroughly the crankcase and its lower part.
11. Degrease the contact areas and apply Three bond 1207B on the areas shown in the figure (**Fig.4**).
12. Apply Molikote 1000 on the stud bolts.

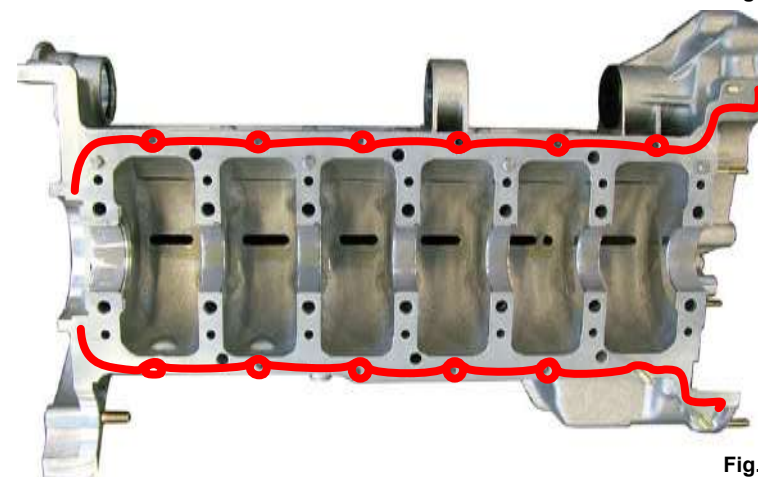


Fig.4



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13. Position the lower part of the crankcase on the crankcase taking care that all the bushings are in their correct position.
14. Tighten the 12 mm and 8 mm stud bolt nuts to the prescribed tightening torques following the sequence shown in the figure (Fig.4).
 - 12 mm stud bolt nuts; **Tightening torque (000800-9c)**
 - 8 mm stud bolt nuts; **Tightening torque (000800-9c)**

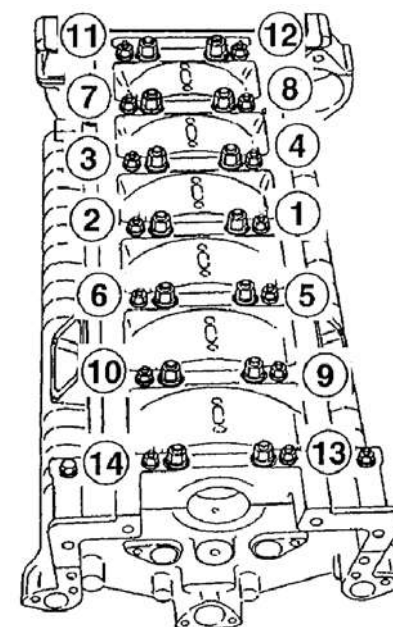
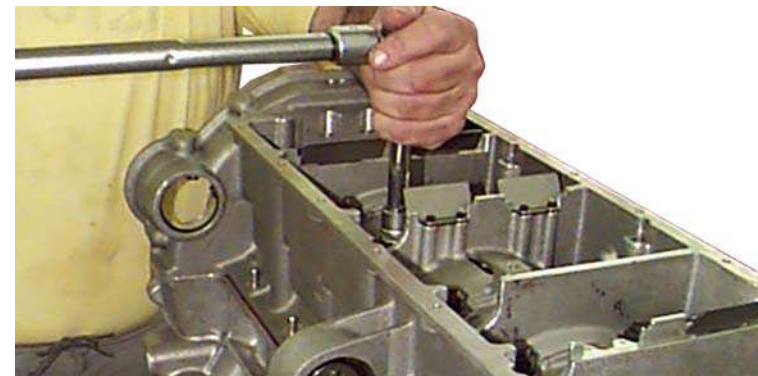


Fig.5



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During the assembly

15. Install P/N 961195027 liner-stop on the concerned liner to prevent it from moving.

16. Insert the connecting rod-piston assembly in the crankcase, checking that:

- **The connecting rod beads face the crankshaft shoulders.**
- **The numbers printed on the connecting rods caps correspond to the numbers printed on the connecting rod small end.**

17. Apply Molycote 1000 on the threads and on the striking surface of the connecting rod cap bolts and tighten the bolts; **Tightening torque (000800-2a).**

18. Then tighten to angle check.

Tightening values: (000800-2a).

- Oil pump assemble (011505)
- Timing system chain assemble (019005)
- Assemble the oil draft pipe
- Assemble the oil pan
- Timing system cover assemble (019005)
- Assemble the front crankshaft pulley
- Rear differential assemble (050905)
- Head assemble (010305)
- Alternator, power steering pump and air conditioning system compressor frame assemble.
- Air intake manifold assemble (012905)
- Exhaust manifolds assemble (025105)
- Silencer and exhaust terminals assemble (025105)
- Gearbox assemble (030105)
- Thermostatic valve assemble (012105)
- Engine assemble (010005)

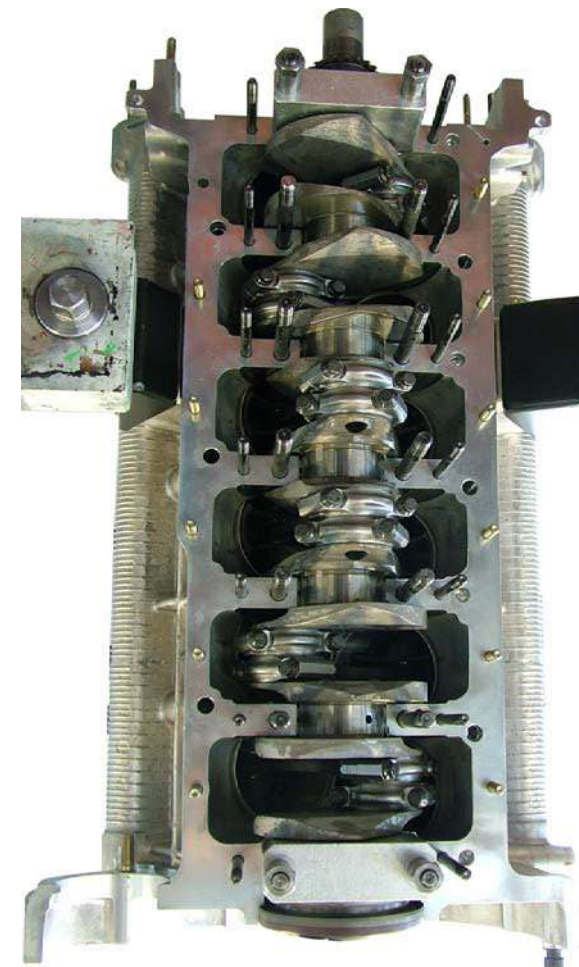


Fig.6



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Rated diameter		88.00 ± 0.015
Height	ha	12
Diameter	a	88.00 ± 0.015
Height	hb	60
Diameter	b	88.00 ± 0.015
Liner protrusion from crankcase edge (with liner-stop pre-load P=30 N)	s	0.04 ÷ 0.08
Maximum taper		0.04
Maximum ovalization		0.03
Surface roughness		0.3 micron
Concentricity		0.08

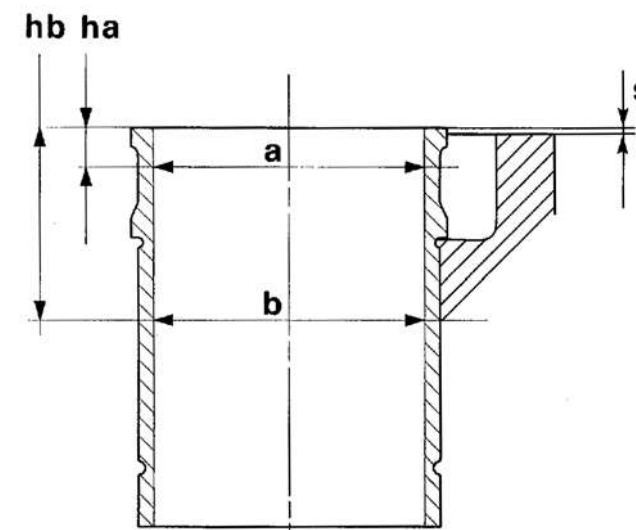


Fig.1



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Rated diameter		88.00
Total height	H	46
Piston crown-piston pin axis height	H1	28.00 ± 0.05
Piston pin axis-lower edge height	H2	18.00 ± 0.2
Step I slot height	h	6.95 ± 0.1
I slot height	a	1.2 ± 0.05
II slot height	b	1.5 ± 0.04
III slot height	c	2 ± 0.03
Piston pin diameter		$19.995 \div 20.000$
Piston pin seat diameter		$20.010 \div 20.016$
Piston pin-piston clearance		$0.010 \div 0.020$

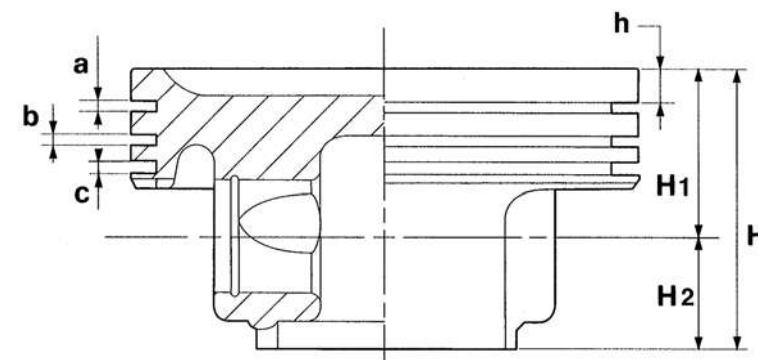


Fig.2

Pistons must always be coupled with liners belonging to the same group. Pistons and liners belonging to the same engine must all be of the same group.



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SLOT I

Height s	1.20
Thickness b	3.70 ÷ 3.45
Gap between ends	0.20 ÷ 0.40 (*)
Slot-piston ring clearance	0.040 ÷ 0.075

SLOT II

Height s	1.50
Thickness b	3.70 ÷ 3.45
Gap between ends	0.30 ÷ 0.50 (*)
Slot-piston ring clearance	0.020 ÷ 0.062
Diameter b	

SLOT III

Height s	1.08
Thickness b	3.00 ÷ 2.75
Gap between ends	0.25 ÷ 0.50 (*)
Slot-piston ring clearance	0.020 ÷ 0.055

(*) measured with piston ring fitted in the liner.

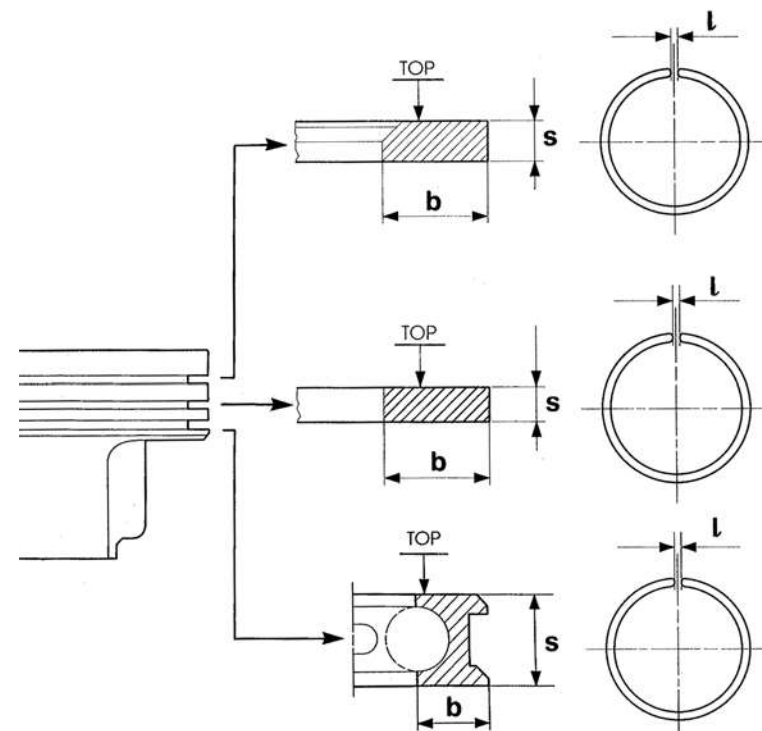


Fig.3

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**Piston-connecting rod assy – Disassemble (010303 and 010503)**

1. Remove the clips from the piston races.
2. Extract the piston pin.
3. Remove the bushings from the connecting rod head and cap.

**Fig.1**



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Piston-connecting rod assy - Assemble

NOTE
The piston INTAKE side is shown by the arrow (in case of a new piston)(**A-Fig.1**); anyway this side is the one with bigger valve seats.



Fig.1

1. Insert the connecting rod into the piston so that the bushing insertion mark in the connecting rod big end faces the piston intake side (**B-Fig.2**).
2. Lock the piston in the vice.

STOP WARNING
Use adequate protective devices to secure the piston in the vice, to prevent damage to the connecting rod.



Fig.2



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3. Insert the first scraper ring inner clip into the lower race (**C-Fig.3**).
4. Insert the scraper ring outer part on the clip (**D-Fig.3**).
5. Insert the second inner clip on the scraper ring (**E-Fig.3**).



Fig.3



WARNING

The scraper ring teeth must face downwards (Fig.4).

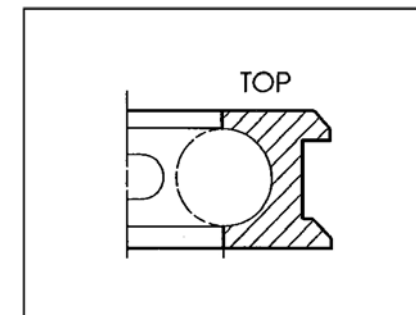


Fig.4



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Tappet housing diameter (a-Fig.1)	33.015 ÷ 33.030
Intake valve seat housing diameter (b-Fig.1)	36.350 ÷ 36.370
Exhaust valve seat housing diameter (c-Fig.1)	32.550 ÷ 32.570
Intake and exhaust valve guide housing diameter (d-Fig.1)	12.00 ÷ 12.018

Intake valve seats

Rated inner diameter	32.500 ÷ 32.530
Rated outer diameter	36.490 ÷ 36.510
Contact band angle	45°

Exhaust valve seats

Rated inner diameter	27.470 ÷ 27.530
Rated outer diameter	32.690 ÷ 32.710
Contact band angle	45°

Intake and exhaust valve guide

Rated outer diameter	12.040 ± 12.050
Inner diameter with pressed and bored guide	6.015

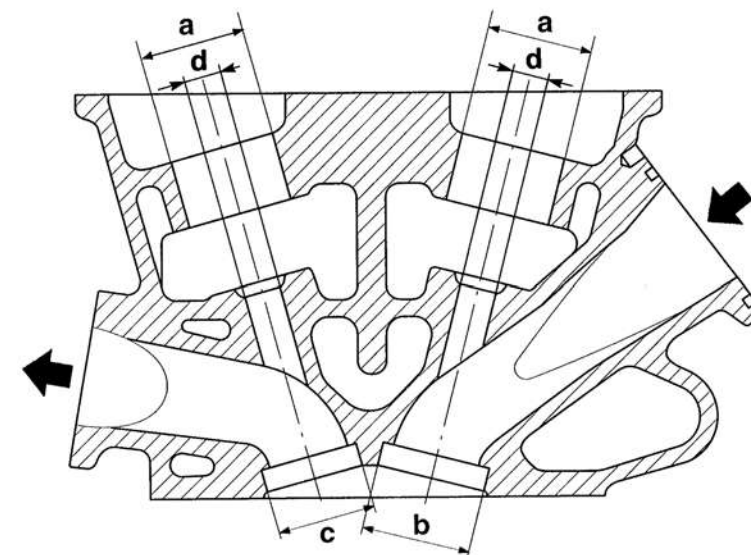


Fig.1



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Intake valves

Stem diameter (d-Fig.2)	5.95 ± 0.02
Reduced stem diameter (d1-Fig.2)	4.59 ± 0.05
Valve head diameter (D-Fig.2)	35.40 ± 0.1
Valve seat angle	$44^{\circ}50' \pm 10'$
Height (h-Fig.2)	104.90 ± 0.15
Tappets support thickness (s-Fig.2)	4.70

Exhaust valves

Stem diameter (d-Fig.2)	5.92 ± 0.02
Valve head diameter (D-Fig.2)	30.20 ± 0.1
Valve seat angle	$44^{\circ}50' \pm 10'$
Height (h-Fig.2)	104.01 ± 0.15
Tappets support thickness (s-Fig.2)	4.70

Tappets

Diameter	$32.974 \div 32.990$
Washer thickness range with intervals of	$3.25 \div 0.70$ 0.05

Valve stem-guide fitting

Intake system assembly clearance	$0.025 \div 0.055$
Exhaust system assembly clearance	$0.035 \div 0.065$

Maximum shift between valve stem and head (head-stem concentricity)

Intake	0.03
Exhaust	0.03

Assembly clearance between tappet and its seat (intake-exhaust)	$0.025 \div 0.071$
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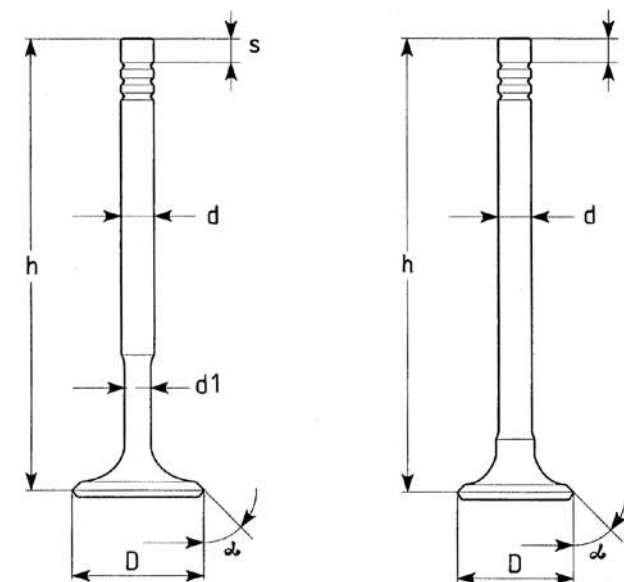


Fig.2

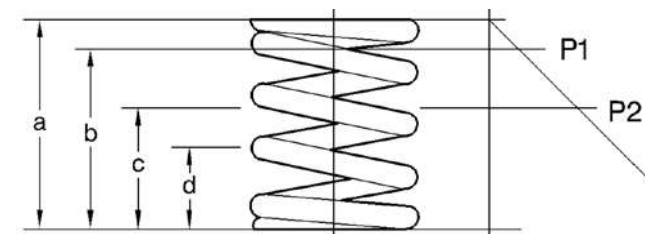


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Inner spring

Free length (a- Fig.3)	44
With closed valve (b- Fig.3)	31
With open valve (c- Fig.3)	19
Compressed (d- Fig.3)	16.25
Load (with closed valve) (P1- Fig.3)	13 ± 0.5 Kg
Load (with open valve) (P2- Fig.3)	25.5 ± 1.2 Kg
Number of active coils	5



Outer spring

Free length (a- Fig.3)	41
With closed valve (b- Fig.3)	33
With open valve (c- Fig.3)	21
Compressed (d- Fig.3)	16.5
Load (with closed valve) (P1- Fig.3)	16 ± 0.5 Kg
Load (with open valve) (P2- Fig.3)	41.2 ± 1.2 Kg
Number of active coils	3.5

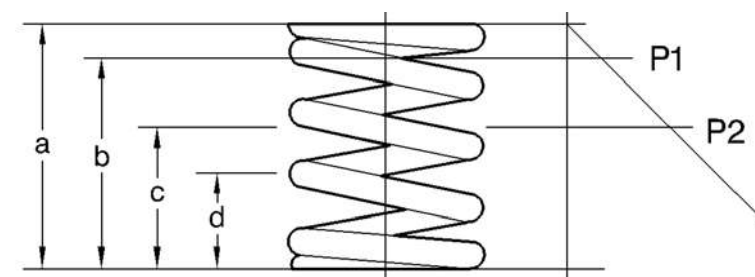


Fig.3



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The present section contains the following adjustment sequences:

- A) MECHANICAL TIMING OF HEAD
- B) VALVE CLEARANCE



A) MECHANICAL TIMING OF HEAD



Mechanical head timing can be carried out two ways:

- using a dial gauge
- using special tools

A1) Mechanical head timing with a dial gauge

Prerequisites

- Engine on a workbench.
- The bolts that secure the variable valve timing mechanism must be loosened so that the chain turns freely, without being integral with the camshaft seat.

Head timing

Intake

(The instructions within brackets refer to the right cylinder bank.)

1. Assemble the crank mechanism on the crankshaft (**A-Fig.1**).
2. Assemble the dial gauge (**B-Fig.1**) on cylinder no.1 (no.7).
3. Turn the crankshaft, placing cylinder no.1 (no.7) at the TDC (top dead center); this is verified when the dial gauge's pointer indicates 0 (zero) (**C-Fig.1**).
4. Reset the goniometer according to the reference mark (**D-Fig.1**).

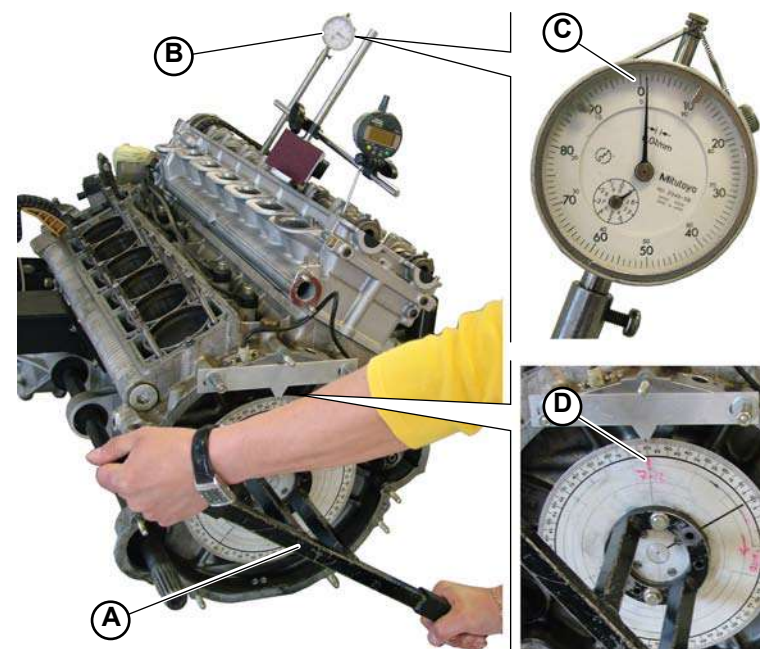


Fig.1



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5. Install the digital dial gauge (**E-Fig.2**) with the support on the spacer ring of the intake valve of cylinder no. 6 (no. 12).



Fig.2

6. Turn the camshaft seat using a 26 mm wrench (**F-Fig.3**) until the digital dial gauge indicates 1 mm.
7. Tighten the bolts of the variable valve timing mechanism, making it integral with the camshaft seat.
8. Recover the timing chain clearance by turning the crankshaft approximately 60° counter-clockwise.
9. Reset the digital dial gauge (yellow button) and turn the crankshaft clockwise, 12° past the reference mark. The value indicated on the dial gauge must be 1 mm $\pm$ 0.05.

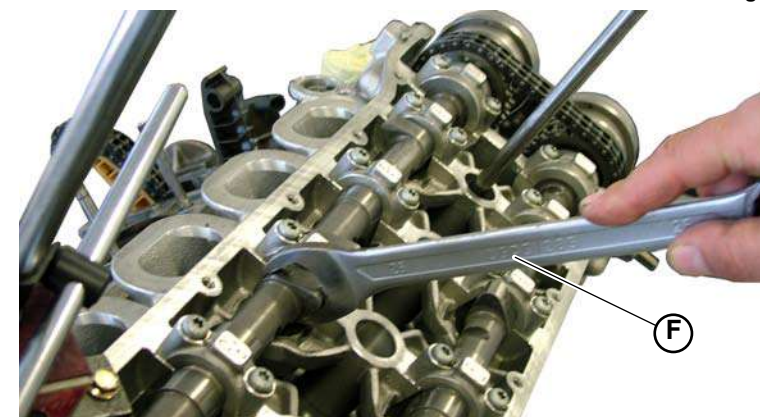


Fig.3



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Exhaust

10. Turn the crankshaft so that it is repositioned with the TDC (top dead center); check that the dial gauge's pointer continues to indicate 0 (zero).
11. Move the digital dial gauge (**E-Fig.4**) onto the exhaust side with the support on the spacer ring of the exhaust valve of cylinder no.6 (no.12).



Fig.4

12. Loosen the bolts of the variable valve timing mechanism.
13. Turn the camshaft seat using a 26 mm wrench until the digital dial gauge indicates 1 mm.
14. Tighten the bolts of the variable valve timing mechanism, making it integral with the camshaft seat.
15. Recover the timing chain clearance by turning the crankshaft approximately 60° counter-clockwise.
16. Reset the digital dial gauge (yellow button) and turn the crankshaft clockwise, 12° before top dead center. The value indicated on the dial gauge must be 1 mm $\pm$ 0.05.
17. Tighten the bolts of the variable valve timing mechanism (**000800-30d**) to the prescribed torque with molicote.



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A2) Mechanical head timing with special tools

Prerequisites

- The bolts that secure the variable valve timing mechanism must be loosened so that the chain turns freely, without being integral with the camshaft.

Head timing

- If the engine is on a workbench, assemble the crank mechanism on the crankshaft; if the engine is on board, the rotation can be carried out directly from the pulley.
- Assemble the dial gauge (**A-Fig.5**) on cylinder no. 1.
- Turn the crankshaft, placing cylinder no.1 at TDC (top dead center); this is verified when the dial gauge's pointer indicates 0 (zero).
- Assemble the timing tools on the heads (**000200-12c**), being careful to install the LH tool on the left head (**B-Fig.5**) and the RH tool on the right head (**C-Fig.5**).



The tools must be secured directly onto the camshafts of both heads so that the position of the camshafts is locked into place according to the timing (Fig.6); if the tool is not accurately assembled, turn the camshafts slightly using a 26 mm wrench to the correct position at which to secure the tool.

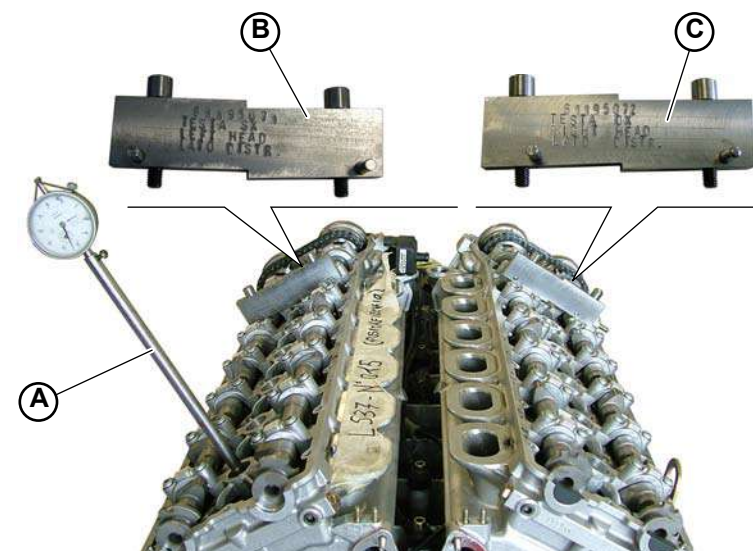


Fig.5

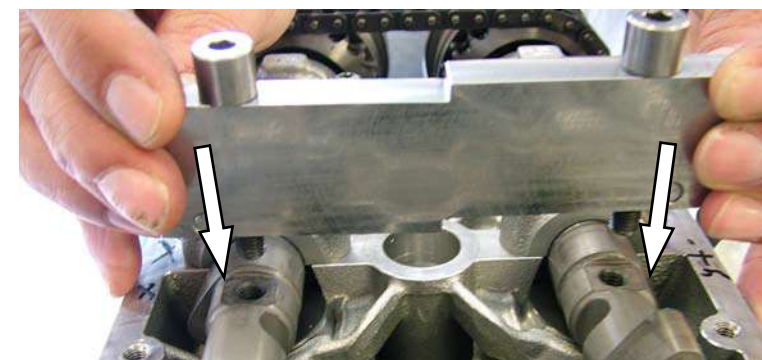


Fig.6



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5. Tighten the variable valve timing bolts (000800-30d) to the prescribed torque with Molicote.



Secure the 4 variable valve timing mechanisms onto the heads, following the ascending assembly order from 1 to 4 shown in Fig.7.

Verifying proper timing

- Remove the U-bolts above the camshafts.
- Rotate the crankshaft counter-clockwise twice using the crank mechanism and locate dead center.
- Verify the planarity between the U-bolts and the camshaft seat.

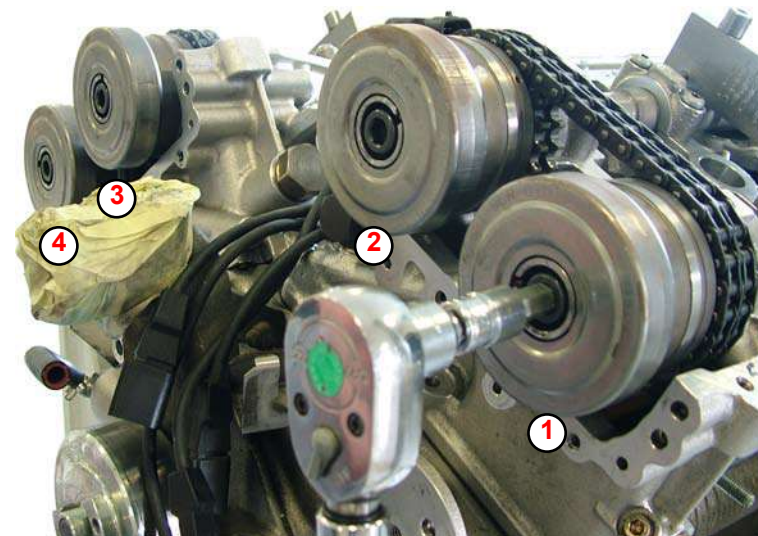


Fig.7



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B) VALVE CLEARANCE



Check the valve clearance when the engine is cold.

Intake	Exhaust
0.30 ± 0.05 mm	0.50 ± 0.05 mm

1. Check that the valve clearance corresponds to the values above, shown on each tappet: When the head is removed, use the tool (A-Fig.8).



Use the thickness gauge to measure the thickness between all the shims and the camshaft lobes. Make a note of any differences required to achieve the set value.

2. If the clearance differs from the established one, replace the spacer rings (B-Fig.9) under the tappets (B-Fig.9)(010909) until the optimum value is achieved.

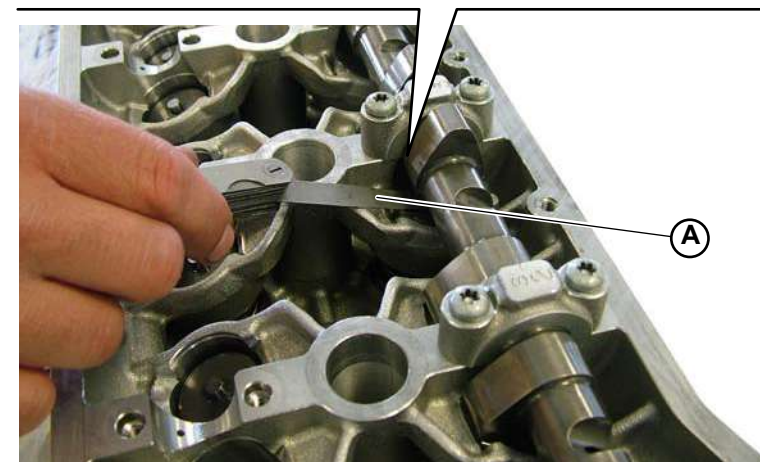
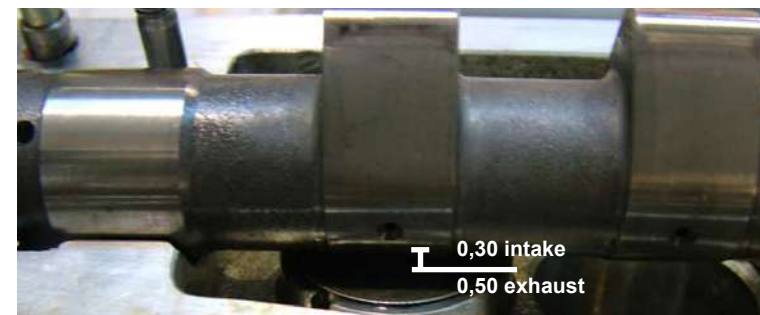


Fig.8



Fig.9



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This section explains how to disassemble:

- A) Camshafts
- B) Valves



A) Disassembling the camshafts

STOP Before carrying out this procedure, disassemble the engine head and then continue on a workbench.

Preliminary operations

- Disassemble the intake manifold (012903).
- Disassemble the head covers (010303).
- Disassemble the variable valve timing mechanism (011603).

Disassembling the shafts

1. Remove the supports of the camshafts (A-Fig.1), unscrewing the relative pairs of screws (B-Fig.1).

STOP To remove the camshaft, loosen the screws of the supports and turn the shaft slightly (using a 26 mm wrench), discharging the valves still under pressure; immediate removal of the shaft can be dangerous: the shaft could be launched off of its seat because the valves are still under pressure!

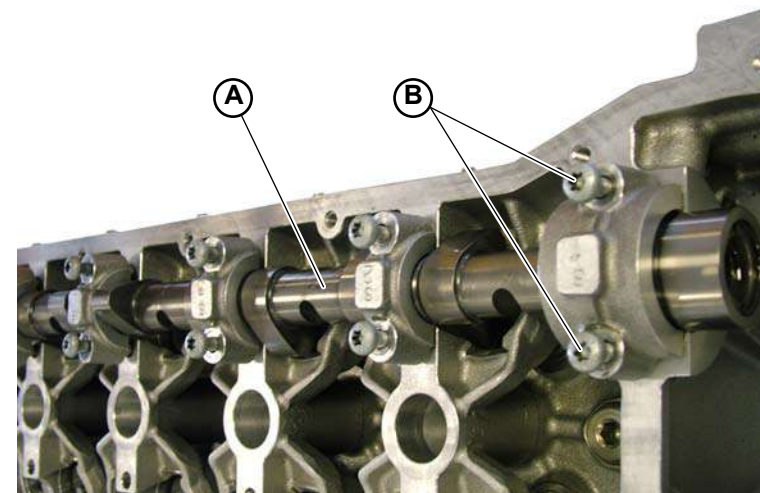


Fig.1



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B) Disassembling the valves

Preliminary operations

- With the engine on a workbench, disassemble the camshafts (**Point A**).

Disassembling the valves

- Remove the tappets (**A-Fig.2**) from their housings.
- Remove the spacers (**B-Fig.2**) positioned underneath the tappets.
- Using the special tool (**C-Fig.3**), press the spacer ring to extract the 2 cotters (**D-Fig.3**).
- Remove the cotters (**D-Fig.3**), then the tool, followed by the entire valve unit (**Fig.4**):
 - valve
 - seat
 - valve guide
 - oil seal
 - lower spacer ring
 - spring
 - spring
 - upper spacer ring
 - 2 cotters (already removed)
 - spacer (already removed)

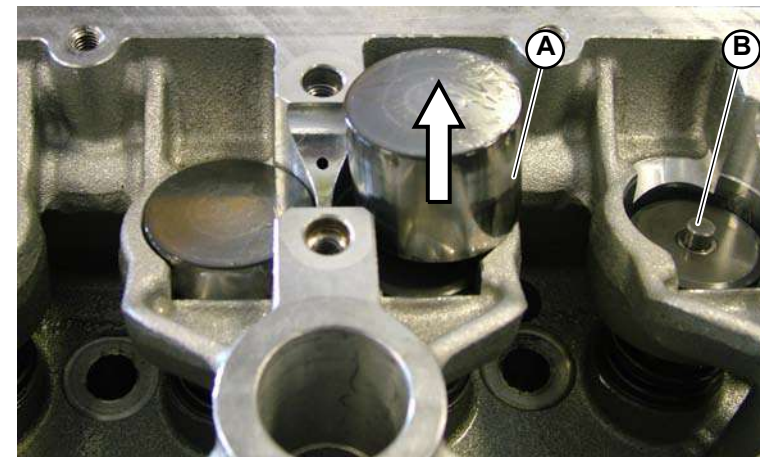


Fig.2

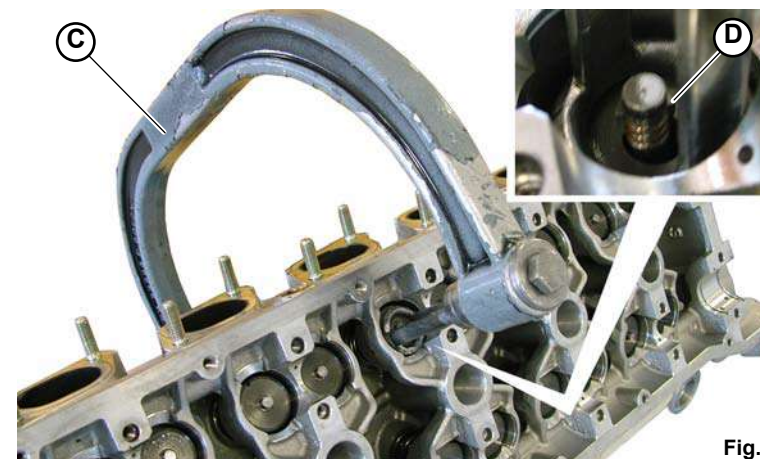


Fig.3

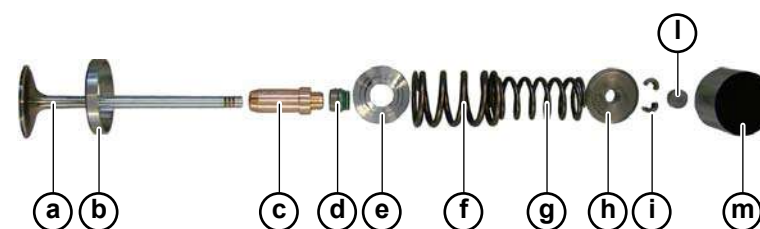


Fig.4



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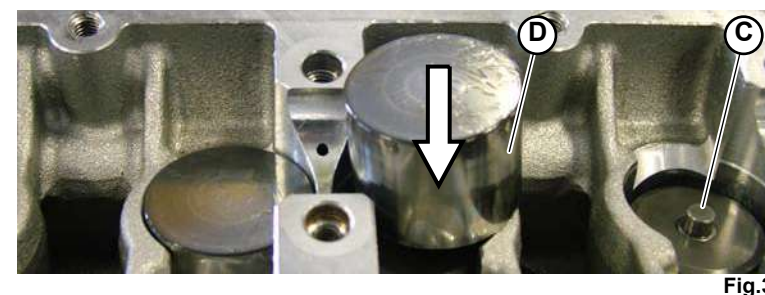
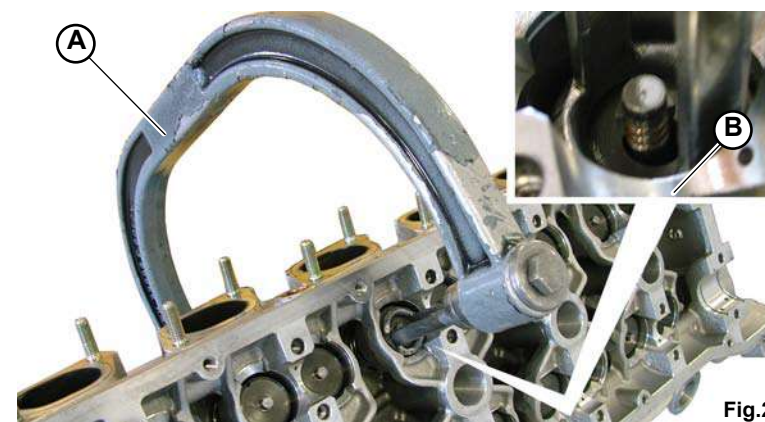
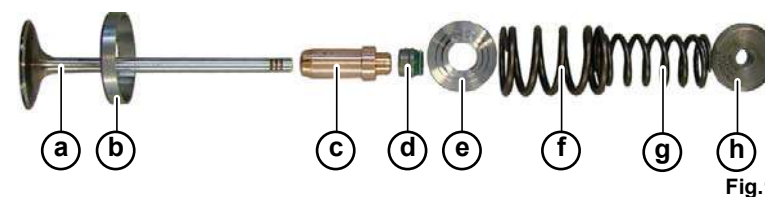
This section explains how to assemble:

- A) Valves
- B) Camshafts



A) Assembling the valves

1. Lubricate valve stem (**a-Fig.1**) and valve guide (**b-Fig.1**) with engine oil.
2. Insert the valve into the guide (**c-Fig.1**) and the oil seal (**d-Fig.1**).
3. Install the lower spacer ring (**e-Fig.1**), the springs (**f/g-Fig.1**) and the upper spacer ring (**h-Fig.1**).
4. Using the special tool (**A-Fig.2**), press the spacer ring to insert the 2 cotters (**B-Fig.2**).
5. Position the spacers (**C-Fig.3**) above the upper spacer rings.
6. Remove the tappets (**D-Fig.3**) from their housings.





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B) Assembling the camshafts

1. Clean all the camshaft (A-Fig.4) and head (B-Fig.4) lubrication holes thoroughly; apply only engine oil.
2. Position the camshafts on the supports, following the instructions printed on the head.
3. Position the supports following the numbers printed on the caps and on the head.



- Check that the intake and exhaust components have been positioned properly.
- Position the supports in the correct order from no. 1 to no. 14; when assembling the first support, make sure that the oil seals (D-Fig.5) have been positioned in their respective housings (E-Fig.5).

4. Tighten the screws (C-Fig.4) of the supports.
Screw attachment; **tightening torque (000800-1b).**



When assembling the camshaft, as the supports are gradually secured, turn the shaft slightly (using a 26 mm wrench) adjusting its position on the valves, so that all of the screws can be attached.

- Assemble the variable valve timing mechanism (011605).
- Assemble the head covers Assemble the head covers (010305).
- Assemble the intake manifold (012905).
- Assemble the engine(010005).

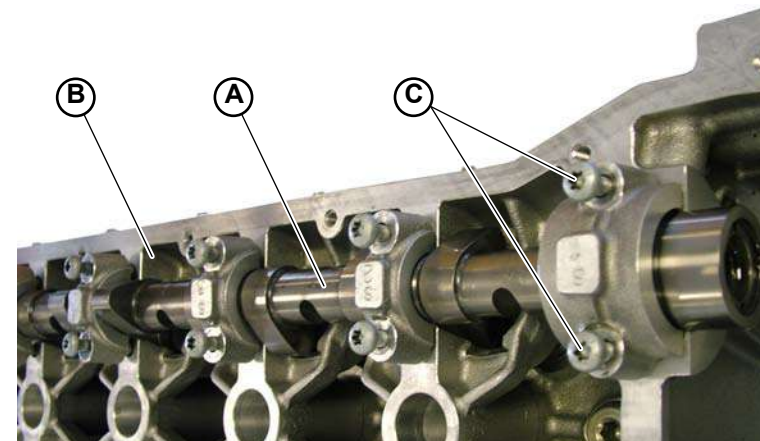


Fig.4



Fig.5



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Valves overhaul

Preliminary operations

- Extract the two camshafts (010903).
- Remove the tappets and the valve unit from their housings (010903) and place them in the correct order on the workbench so it is possible to re-establish their original positions when they are reassembled.

Overhaul

1. Check the head valve (A-Fig.1) and the seat (B-Fig.1) conditions; if necessary, replace the valve or remake the seat.



To clean the valves, proceed as follows:

- position the valve on a pillar drill. Before securing the valve to the drill, wrap tin foil around the drill-valve contact area on the valve.
- Start the pillar drill.
- While the valve is turning, clean with a scouring pad.
- Remove the valve from the drill and wash completely.

Take care not to spoil the valve stem.

2. Check the valve guides (C-Fig.1) and the oil seal (D-Fig.1) wear; if necessary, replace the valve guide following the technical specifications; always replace the seal.
 3. Clean the tappet, spring and shim pack (E-Fig.1) in the following order:
 - a. Wash.
 - b. Remove grease.
 - c. Blow.
- Reassemble the tappets and the valve unit in their housings (010905), placing them in the correct order.
 - Assemble the two camshafts (010905).



Lubricate with oil during the assembly procedure.

- Shim the valves (010902).

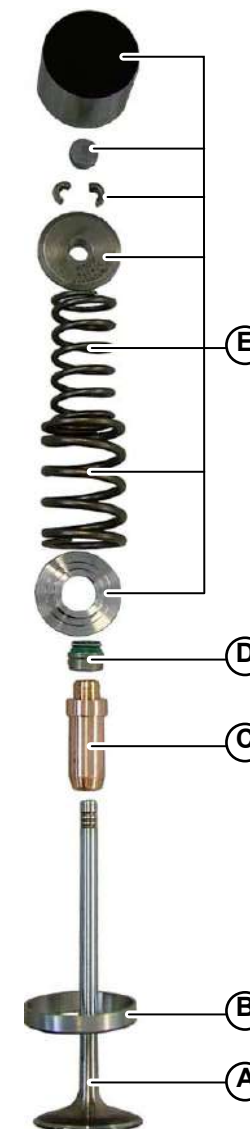


Fig.1



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Oil pump check

 Check tightening torques (000800) and the integrity of the clamps on the oil tank and the intake manifold on a regular basis.



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The present section contains the following disassembly sequences:

A) Oil pump chain

B) Oil pump



A) Oil pump chain

Prerequisites

- Heads removed (010303).
- Timing system cover removed (019003).

Oil pump chain

1. Unscrew the two bolts with washer (A-Fig.1) and remove the oil pump chain tightener.
2. Unscrew the bolt that secures the toothed wheel to the oil pump and remove the chain from the engine pinion.
3. Check the chain, oil pump reel and engine pinion conditions; replace the oil pump reel unscrewing the bolt and locking it.

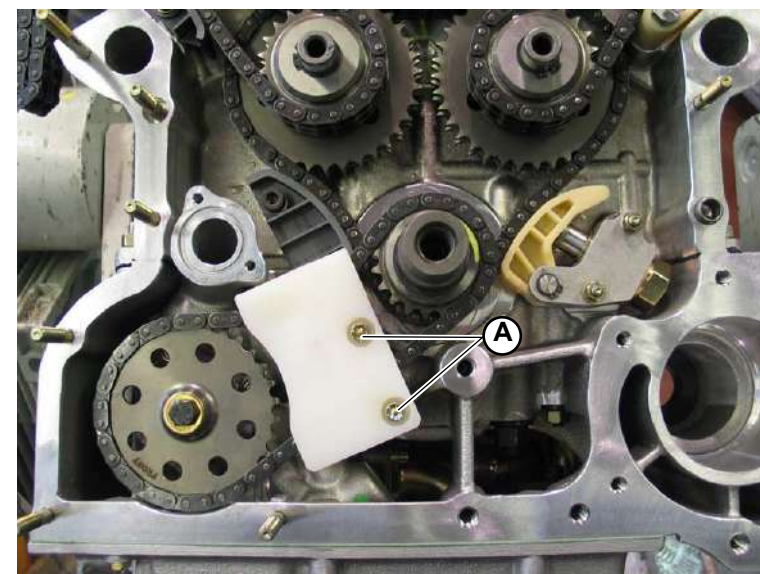


Fig.1



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B) Oil pump

Prerequisites

- This operation is possible only if the power train is on the laboratory test wheel (010003).
- Timing system cover removed (019003).
- Oil pump chain removed (019003).

Pump and oil draft pipe

1. Remove the oil pan and its gasket from the lower part of the crankcase (011703).
2. Unscrew the oil draft pipe mounting screw (A-Fig.2) to the lower part of the crankcase.
3. Unscrew the 2 socket head screws and the hexagonal-head screw (B-Fig.3) which mount the oil pump to the lower part of the crankcase.
4. Take the oil pump with the draft pipe out of the lower part of the crankcase.
5. Remove the oil draft pipe from the pump.

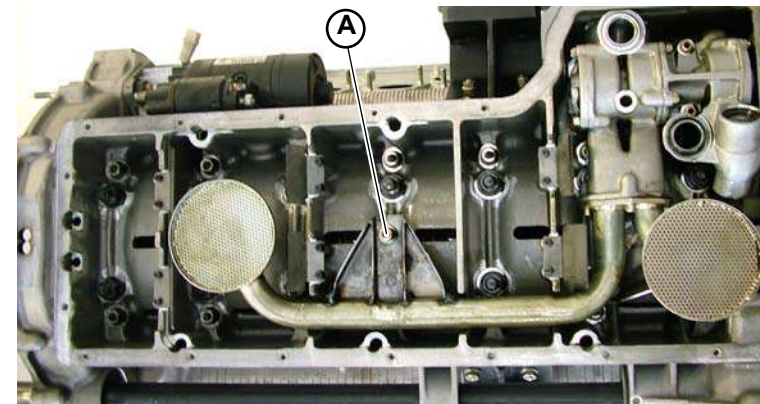


Fig.2

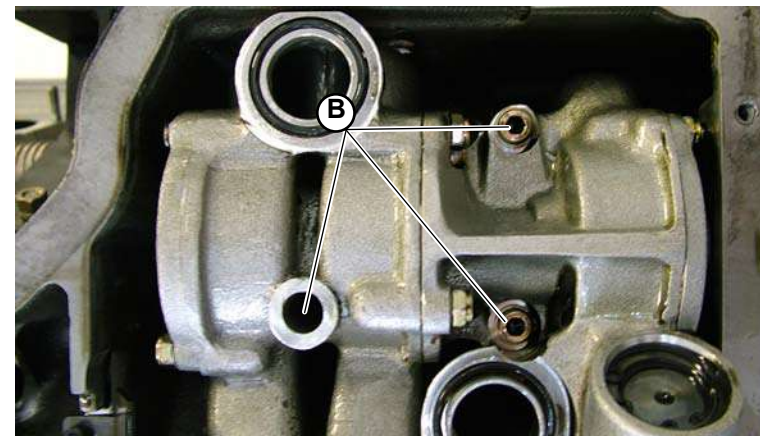


Fig.3



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The present section contains the following assembly sequences:

- A) Oil pump chain
- B) Oil pump



Oil pump chain

1. Assemble the chain on the oil pump crown gear and the engine pinion.
2. Assemble the oil pump (with chain) reel by tightening the relative bolt.
Bolt attachment; tightening torque (000800-2c).
3. Insert the oil pump chain tightener and tighten the two bolts with washer (**A-Fig. 1**).

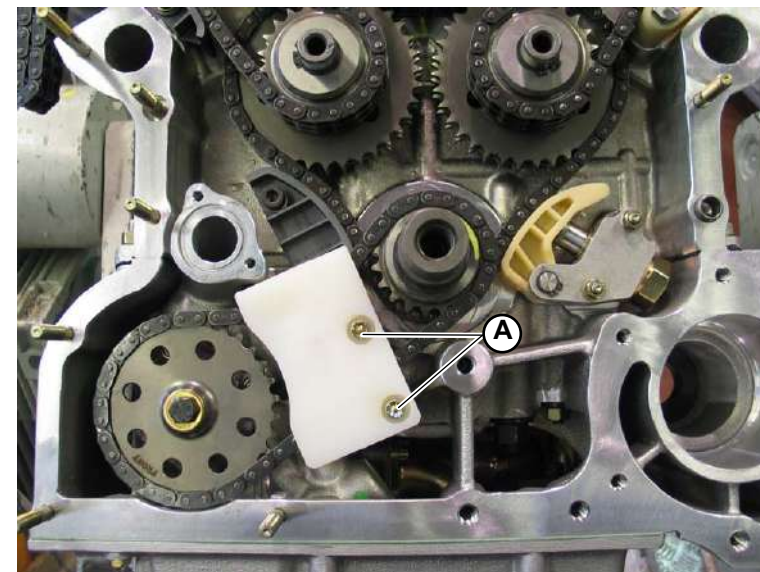


Fig.1



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B) Oil pump

1. Install the oil draft pipe on the pump inserting a new gasket (**A-Fig.2**); tighten by hand as necessary.
2. Arrange the assembly in the crankcase and tighten the draft pipe screw on the lower part of the crankcase; tighten by hand as necessary.
3. Fasten the pump by means of the 3 screws (**B-Fig.3**);
Tightening torque (000800-2d) with medium thread stop.
4. Install new O-rings on the pump delivery.

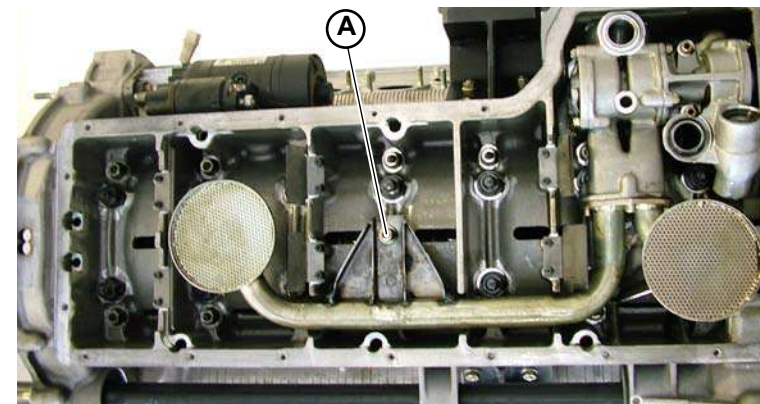


Fig.2

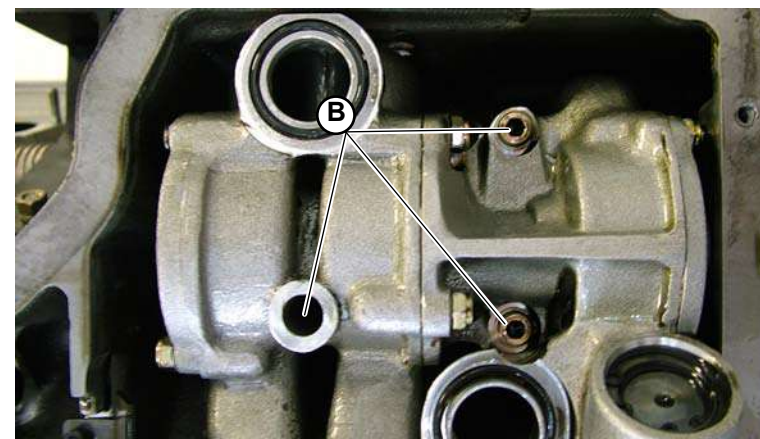


Fig.3



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The present section contains the following disassembly sequences:

- A. Disassembling the variable valve timing cover
- B. Disassembling the variable valve timing mechanism



A. Disassembling the variable valve timing cover

For each cover:

1. Remove the 2 solenoid valves that activate the variable valve timing mechanism (**A-Fig.1**).
2. Unscrew the 8 screws (**B-Fig.1**) of the variable valve timing cover and remove the cover (**C-Fig.1**).



NOTE

Remove the silicone from the cover's inside surface (**D-Fig.2**).



Fig.1



Fig.2



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B. Disassembling the variable valve timing mechanism

Preliminary operations

- Disassemble the intake manifold (012903).
- Remove the ignition coils and the heads cover (010303).
- Secure the special head timing tools (000200-12c) onto both camshafts (010902).

Disassembly

For each cylinder bank:

1. Loosen the bolts of the variable valve timing mechanisms (A-Fig.3).



Fig.3

2. Remove the cap (B-Fig.4) to access and unscrew the screw (C-Fig.4).

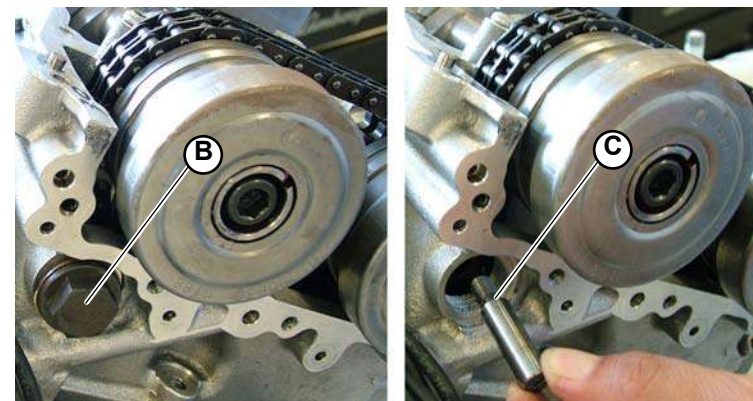


Fig.4



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3. Disassemble the hydraulic tightener (D-Fig.5).

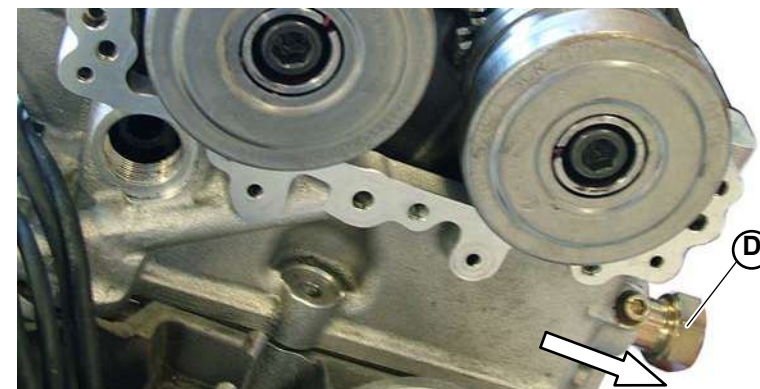


Fig.5

4. Completely unscrew the variable valve timing bolts.

5. Remove the two variable valve timing mechanisms and appropriately secure the upper timing chain (E-Fig.6).



NOTE

DO NOT MOVE THE ENGINE after removing the variable valve timing mechanisms.

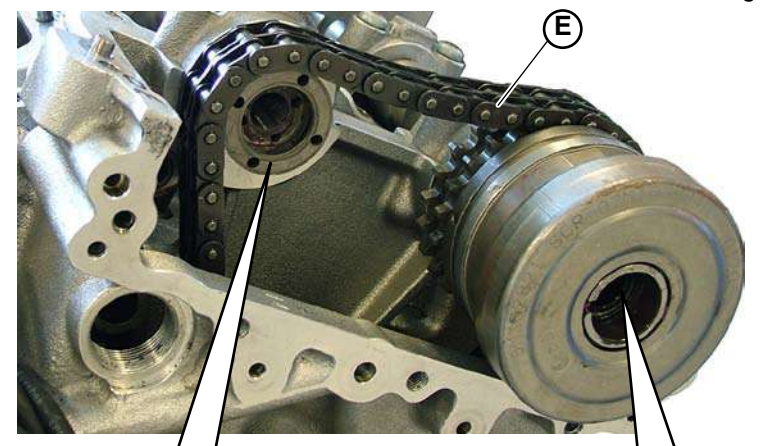


Fig.6



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The present section contains the following assembly sequences:

- A. Assembling the variable valve timing cover
- B. Assembling the variable valve timing mechanism



A. Assembling the variable valve timing cover

For each cover:

1. Apply silicone (**A-Fig.1**) onto the cover's inside surface.
2. Position the variable valve timing cover (**B-Fig.2**) and secure it using the 8 screws (**C-Fig.2**).
3. Secure the 2 solenoid valves that activate the variable valve timing mechanism (**D-Fig.2**).



Fig.1



Fig.2



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B. Assembling the variable valve timing mechanism

NOTE
DO NOT MOVE THE ENGINE until the variable valve timing mechanisms have been completely assembled.

For each cylinder bank:

1. Insert the two variable valve timing mechanisms and appropriately secure the upper timing chain (**A-Fig.3**).

NOTE
Be careful to correctly assemble the intake (**B1-Fig.3**) and exhaust (**B2-Fig.3**) variable valve timing mechanisms: the position of the variable valve timing mechanism is engraved on the mechanisms themselves.

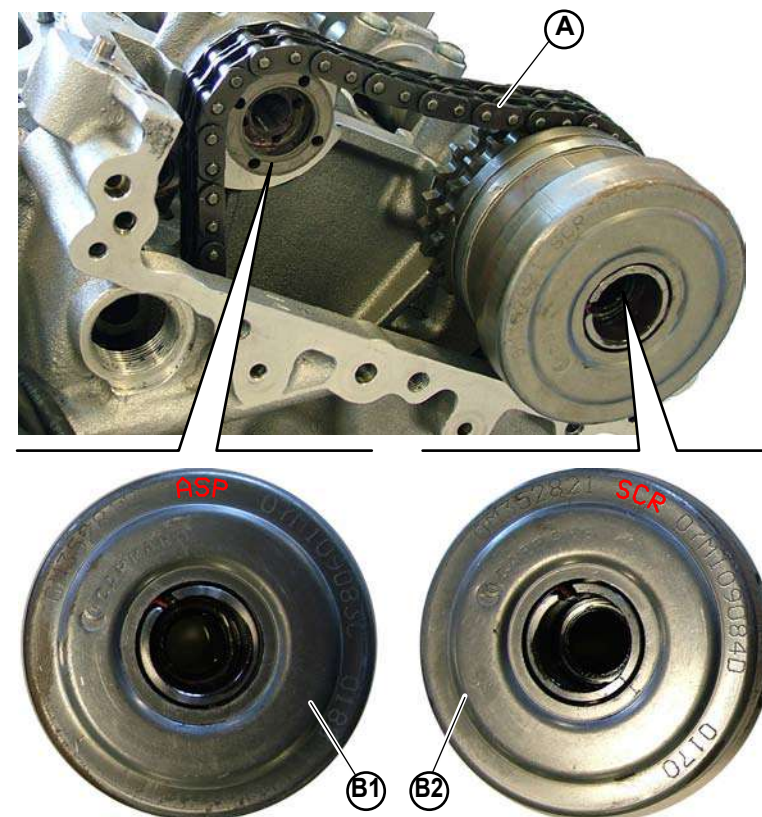


Fig.3



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2. Attach the variable valve timing bolts without tightening them completely (**C-Fig.4**).



Fig.4

3. Assemble the hydraulic tightener (**D-Fig.5**).

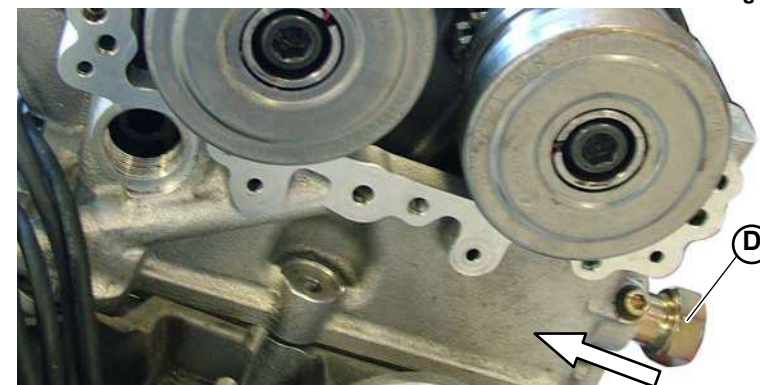


Fig.5

4. Tighten the screw (**E-Fig.6**) and reposition the cap (**F-Fig.6**).

5. Completely tighten the bolts of the two variable valve timing mechanisms (**C-Fig.4**).
Bolt attachment: **tightening torque (000800-20b)**.

- Remove the special head timing tools (**000200-12c**) from the camshafts (**010902**).
- Assemble the ignition coils and the heads cover (**010305**).
- Assemble the intake manifold (**012905**).

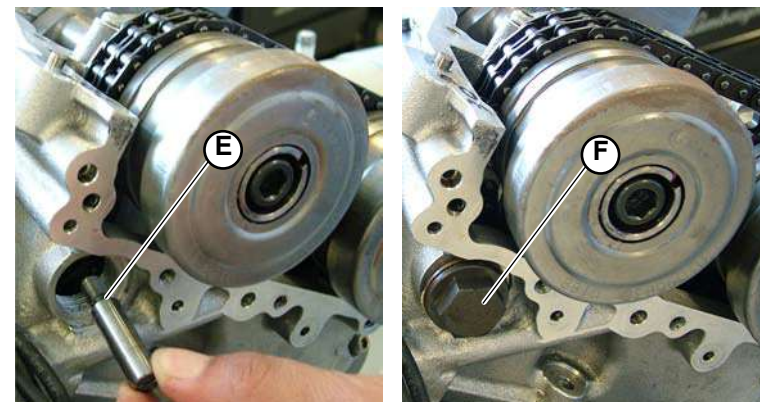


Fig.6



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Oil cooler

Dry pan lubrication with gear pump in the crankcase controlled by independent chain. Oil cooling radiator. The pump is equipped with a pressure regulator. Oil vapors from head and oil tank re-cycling.

- | | |
|----|--|
| A. | Tank |
| B. | Oil dipstick |
| C. | Oil vapors from RH head |
| D. | Oil vapors from LH head |
| E. | Oil filter |
| F. | Pressure regulator |
| G. | Oil pump |
| H. | Pan-radiator pipe |
| I. | Oil radiator |
| L. | Oil tank drain plug |
| M. | Oil temperature sensor |
| N. | Sieve filter |
| O. | Tank-pan pipe |
| P. | Oil vapors to LH manifold re-cycling |
| Q. | Oil vapors to LH air filter re-cycling |
| R. | Tank-radiator pipe |
| S. | Oil pan |
| T. | Oil aspirator |

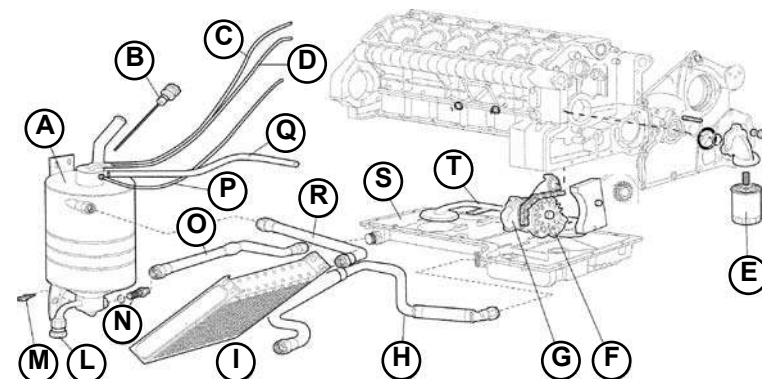


Fig.1

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Circuit	Dry pan lubrication system with radiator and pressure regulator
Oil pump	Integrated in the crankcase and controlled by independent chain
Oil radiator	Single, separate
Circuit pressure with hot engine (90°C)	
– at 1,000 RPM	1.5 – 2.5 [bars]
– at 6,000 RPM	5 – 7 [bars]



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Recycling System For Gas Coming From The Crankcase (Blow-by)

The system checks the crankcase gas emissions which are a mixture of air, fuel vapors and exhaust gas that seep out from the piston rings, and

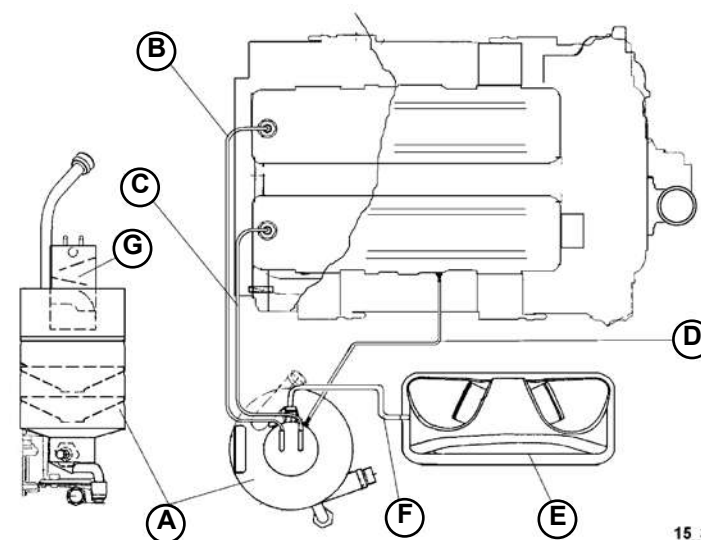
lubrication oil vapors which are sucked back and burnt by the engine.

The gas emissions rise from the crankcase to the cylinder head, are conveyed in ducts to the upper cylinder of the engine oil tank (1). This cylinder

contains an oil vapor separator; the condensed liquid part falls in the tank; the vapors are suctioned:

- In the left intake manifold when the engine is running with low load;
- Upstream of the air filter when the engine is running with high load.

Oil vapor recirculation (Fig.2)	
A.	Engine oil tank
B.	Oil vapor output pipes from the right cylinder head
C.	Oil vapor output pipes from the left cylinder head
D.	Vapor suction pipe to left manifold
E.	Air filter
F.	Vapor suction pipe to left air filter
G.	Oil vapor separator



15_35
Fig.2



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Oil radiator disassembly

Preliminary operations

- Lift the vehicle on car lift (**000000**).
- Disassemble the left rear tire (**060103**).
- Disassemble the wheel arch (**082103**).
- Disassemble the air conveyor of the left side member (**085303**).
- Disconnect and disassemble the battery (**091503**).



Observe the relative safety warnings during battery disassembly.

Oil radiator disassembly

1. Proceed by draining the oil from the tank using the accumulator's screw (**011707**).
2. Unscrew the mouth of the pipes on the oil radiator (lower and upper).
3. Unscrew the 4 lower screws (**A-Fig.1**) that secure the radiator (**B-Fig.1**).
4. Remove the oil radiator.

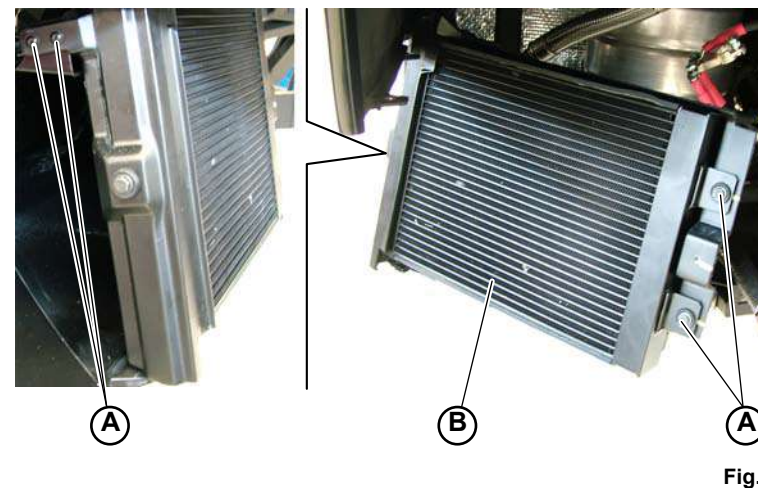


Fig.1



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Sieve filter cleaning (in the oil tank)



Engine oil must be previously and completely drained.

The filter replacement must be cleaned every 3-4 oil changes and anyway always after the engine oil has been contaminated by foreign fluids and/or materials.

- Remove LH rear wheel.
 - Remove LH rear fender apron front part.
 - Remove the battery.
 - Disconnect the hose (**B-Fig.2**) from the sieve filter (**C-Fig.2**).
 - Remove the sieve filter (**C-Fig.2**) and clean it by means of solvent and compressed air.
-
- Install the sieve filter in the oil tank (**A-Fig.2**) inserting a new copper washer (**D-Fig.2**): tighten by hand as necessary.
 - Clean the hose (**B-Fig.2**) coupling gasket and then connect it to the sieve filter (**C-Fig.2**) tightening it by hand as necessary.



Fig.1

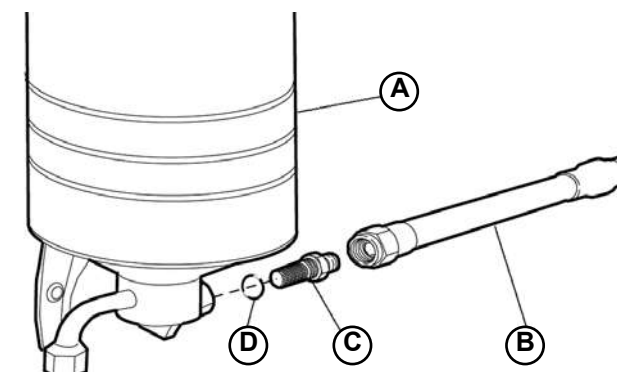


Fig.2



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Oil radiator assembly

1. Attach the radiator (**A-Fig.1**) using the 4 screws (**B-Fig.1**).
 2. Tighten the mouth of the pipes on the oil radiator (lower and upper).
Pipes tightening: **tightening torque (000800-31a)**.
 3. Proceed by filling the oil tank (**011708**).
- Connect and reassemble the battery (**091505**).
 - Assemble the air conveyor of the left side member (**085305**).
 - Assemble the wheel arch (**082105**).
 - Assemble the left rear tire (**060105**).

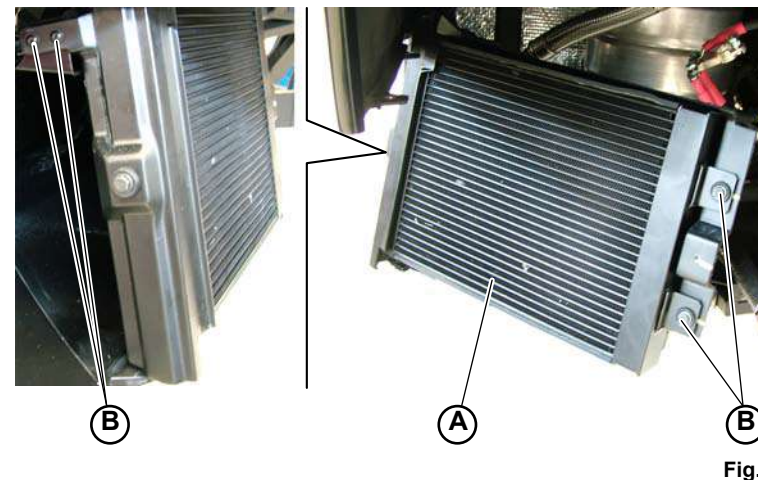


Fig.1



Observe the relative safety warnings during battery assembly.



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Replacing the engine oil

1. Lift the vehicle on the car lift (000000).
2. When the engine is hot (oil temperature > 70°C), unscrew the plug (A-**Fig.1**) and allow the oil to drain out of the oil tank drain hole: then clean the plug and tighten it. **Torque (000800-19d/19e)**.
3. Unscrew the two plugs (B-**Fig.2**) on the oil pan and allow the oil left in the engine to drain out: then clean the plugs and tighten them.

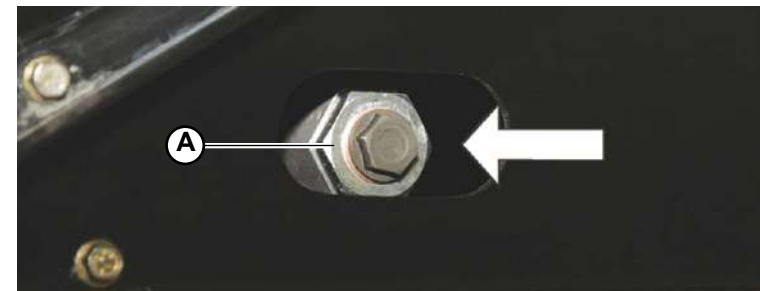


Fig.1

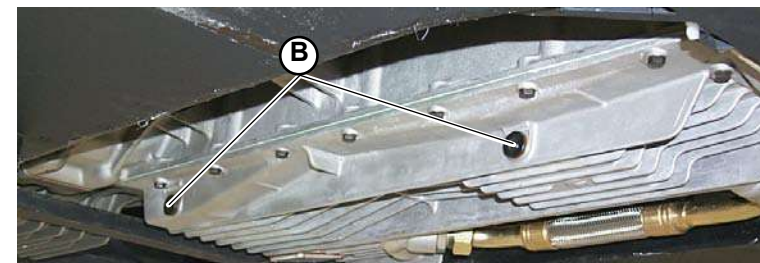


Fig.2



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TOPPING UP THE ENGINE OIL

STOP When adding oil do not allow it to come into contact with hot engine parts. Fire hazard!

The oil level check must be carried out when the motor is hot, with an oil temperature between 70 and 90°C.

- 1) Bring the engine to idle speed and keep it there for 5 minutes to avoid every strategy that can bring the engine to run higher after a start up.
- 2) Be sure that the engine runs to the nominal idle speed (960 rpm $\pm$ 50 rpm) and keep it there for 60 seconds.
- 3) Turn off the engine.
- 4) Check the oil level within 30 seconds after turning off the engine.

The level must be between ($\pm$ 5 mm) the MIN and MAX marks on the dipstick (A-Fig.1).

STOP Important!

- The difference in the amount of oil between the level corresponding to the MIN and MAX marks is about 1.4 liters.
- The oil level should be topped up using the same brand and type of oil as the oil contained in the oil pan. If this is not possible, be sure to use an oil with equivalent specifications (000300).

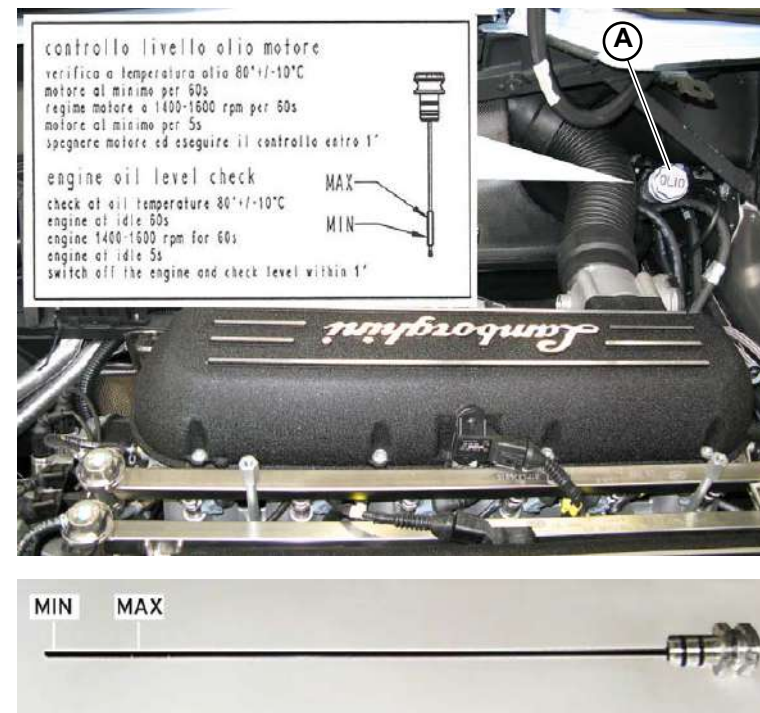


Fig.1



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FILLING

The total amount of oil to be placed in the engine is:

- 13.5 liters $\pm$ 0,5 liters if the oil filter is also replaced;
- 13 liters $\pm$ 0,5 liters if the oil filter is not replaced;

1. Remove the dipstick cap on the oil tank (**A-Fig.2**): fill with 9 liters of oil and replace the cap.
2. Start the engine and let it run at idle speed for 60 seconds.
3. Turn off the engine and add the remaining 4.5 liters (4 liters if the oil filter is not replaced).
4. Start the engine at idle speed, wait for the oil pressure light to go off and then warm up the engine (engine oil temperature above 70°C).
5. Check the oil level using the specified procedure. If the established oil level was not reached, add or remove oil and repeat point 4 to achieve the required level.



Important!

If the cartridge oil filter is replaced, check that there are no leaks from the gasket on the body of the filter's support (the filter's rubber surface must be lubricated with engine oil before tightening it by hand).



Fig.2



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Closed loop cooling system with forced circulation by crankshaft belt-driven centrifugal pump. Thermostatic valve and double rear radiator.

- | | |
|----|------------------------------------|
| A. | Climate control system |
| B. | Minimum flow rate solenoid valve |
| C. | Minimum flow rate pump |
| D. | Water outlet from heads |
| E. | Radiator expansion tank |
| F. | Bleed from heads |
| G. | Breather pipe from radiator |
| H. | Manifold filling-up from radiators |
| I. | RH radiator |
| L. | Manifold pipe from radiators |
| M. | LH radiator |
| N. | Tank bleed manifold |
| O. | Manifold pipe to radiators |
| P. | Belt tensioner |
| Q. | Water pump belt |
| R. | Water pump pulley |
| S. | Water pump O-ring |
| T. | Water pump |
| U. | Water manifold from heads |
| V. | Water temperature sensor |
| Z. | Thermostatic valve |
| X. | Thermostatic valve body |

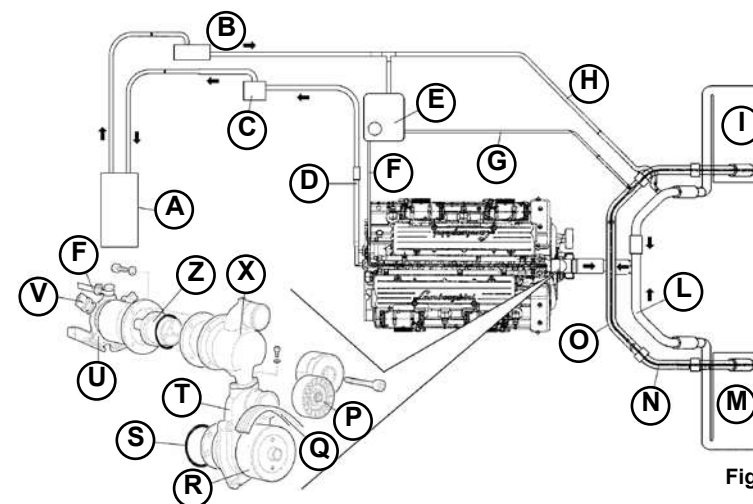


Fig.1

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Circuit	Forced circulation with thermostatic control
Radiators	Two with fan
Fans	
• on	80 °C
• off	74 °C
Circuit pressure with hot engine (max.)	1.2 [bars]
Thermostatic valve	
• Opening start	75 ± 2 °C

**CAUTION!**

Before carrying out any work on the water cooling system, wait for the system to completely cool down: danger of burns due to boiling fluids.

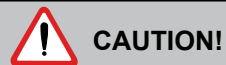


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Water cooling circuit check



Before carrying out any work on the water cooling system, wait for the system to completely cool down: danger of burns due to boiling fluids.

1. Unscrew radiator expansion tank plug.
2. Make sure that the engine coolant level matches the mark visible through the plug. If necessary, top up with the prescribed coolant.
3. Tighten radiator expansion tank plug.



Coolant: (000300)

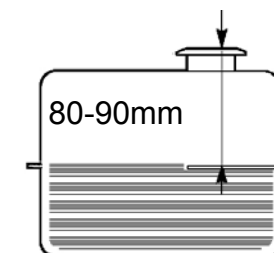


Fig.1



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Thermostatic valve disassembly



Before carrying out any work on the water cooling system, wait for the system to completely cool down: danger of burns due to boiling fluids.

NOTE
The thermostatic valve disassembly/assembly is possible when the power train is on board; in that case, protect the parts under the thermostat by means of a cloth and position a container under the vehicle to collect the coolant.

Preliminary operations

- Proceed by draining the water cooling system (012107).

Valve disassembly

1. Remove the 2 screws (A-Fig.1) with washers which lock the thermostat (B-Fig.1) on to the water pump (C-Fig.1).
2. Remove the 4 screws (D-Fig.1) and remove the cover.
3. Take the thermostatic valve (E-Fig.2) out.

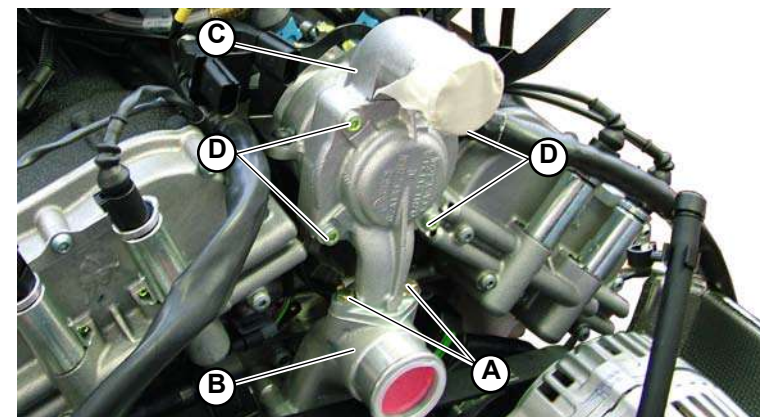


Fig.1

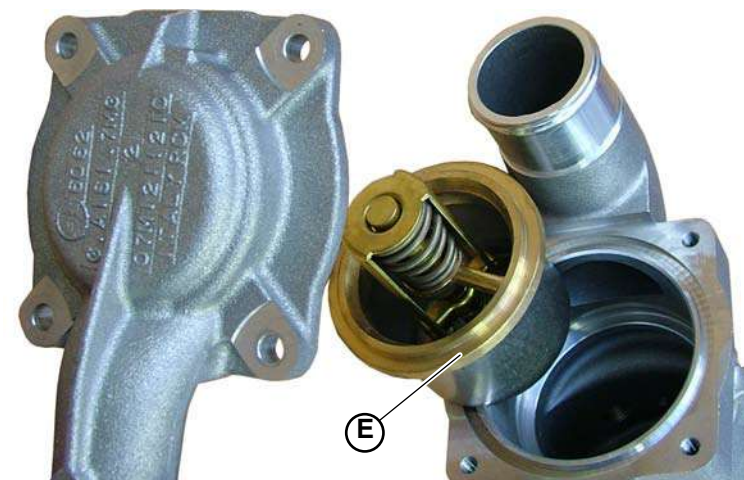


Fig.2

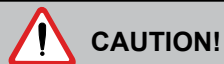


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Thermostatic valve assembly



CAUTION!

Before carrying out any work on the water cooling system, wait for the system to completely cool down: danger of burns due to boiling fluids.



NOTE

The thermostatic valve re-assembly is possible when the power train is on board; in that case, protect the parts under the thermostat by means of a cloth and position a container under the vehicle to collect the coolant.

1. Fit the thermostatic valve (**A-Fig.1**).
 2. Tighten the thermostat cover screwing the 4 screws (**B-Fig.2**).
 3. Screw the 2 screws (**C-Fig.2**) with washers which mount the thermostat (**D-Fig.2**) to the water pump (**E-Fig.2**).
- Proceed by filling the water cooling system (**012106**).

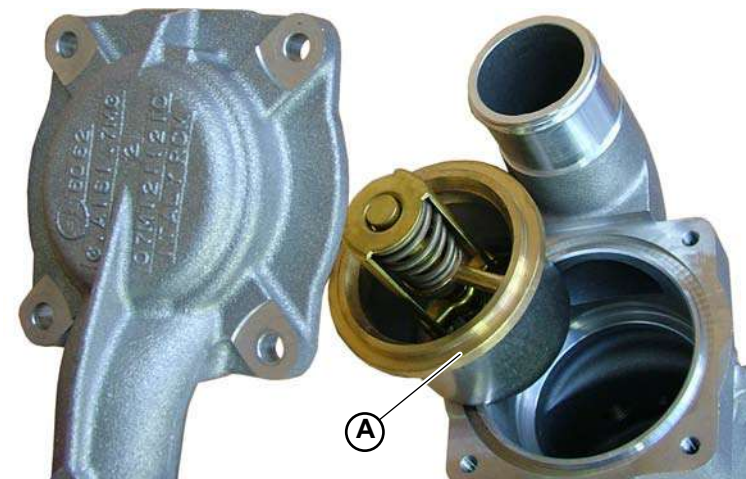


Fig.1

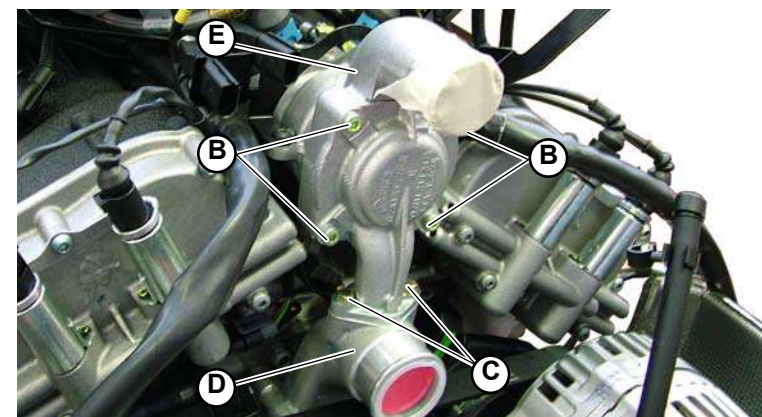


Fig.2



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The water cooling system bleeding

1. Unscrew and remove the cap (**A-Fig. 1**)
2. Top up the reservoir (**B-Fig. 1**) to the level mark.
3. Start the vehicle and bring the water temperature to 90/95°C (thermostatic valve completely open).
4. Because the system is fully circulating, all of the air is conveyed into the reservoir (**B-Fig. 1**) and exits the mouth that was purposely left open.



CAUTION!

During these operations be aware of high temperatures: Risk of burning.



Bleeding can last from 15 to 60 minutes.

5. After bleeding, screw the cap on again (**A-Fig. 1**).

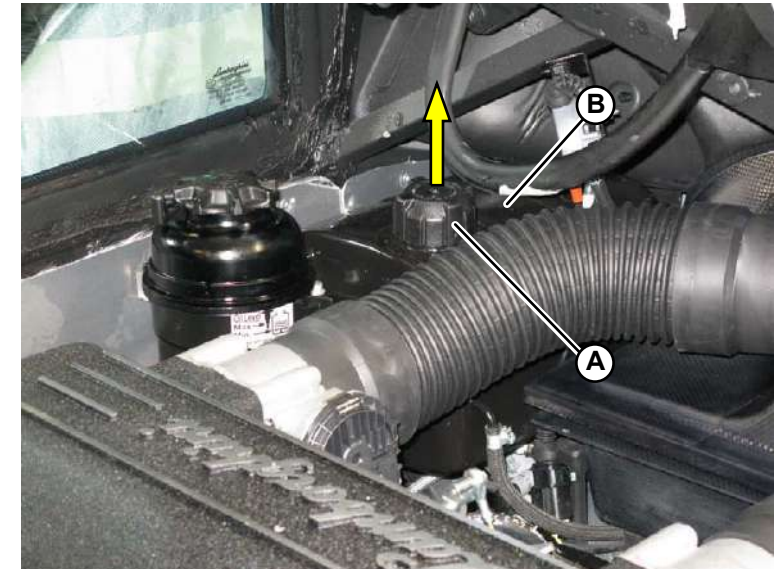


Fig.1

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**Replacing the engine coolant****CAUTION!**

Before carrying out any work on the water cooling system, wait for the system to completely cool down: danger of burns due to boiling fluids.

1. Place a container under the vehicle in order to collect all the engine coolant.
2. Open the radiator expansion tank plug.
3. Disconnect water pump inlet and outlet hoses and allow the coolant to drain out.
4. Unscrew the taps placed under the radiators and accessible when the rear aprons are removed in order to empty the rear radiators.
5. Connect all the removed parts, close the open taps; top up with the prescribed coolant through the radiator expansion tank plug.

Coolant:**(000300)**

6. Start the engine and run it at idle speed for some minutes leaving the radiator expansion tank plug open; stop the engine and check the coolant level through the radiator expansion tank plug; top up with coolant if necessary.
7. Then tighten the radiator expansion tank plug.



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Water pump disassembly

NOTE
The water pump disassembly/assembly is possible when the power train is on board; in that case, protect the parts under the pump by means of a cloth and position a container under the vehicle to collect the coolant.

Preliminary operations

- Disassemble the silencer safety grid (025103).

Pump disassembly

- Remove the delivery (A-Fig.1) and intake pipe mounting clamps on the water pump and remove the pipes (B-Fig.1).
- Remove the rear cross member, unscrewing the 4 screws (C-Fig.2) of the two inner sides.
- Remove the auxiliary belt (010103).
- Remove the 2 screws (D-Fig.3) that connect the water pump and the power steering pump.



Fig.1

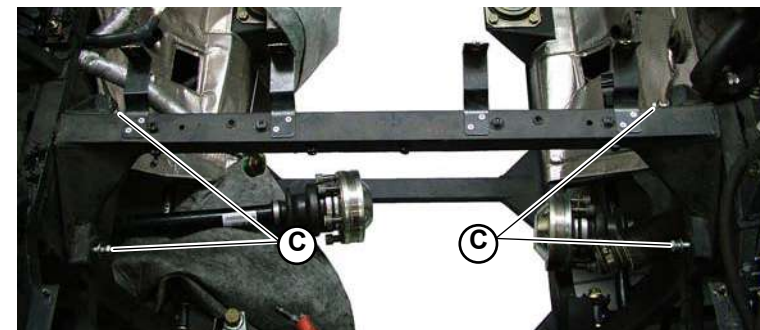


Fig.2



Fig.3



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5. Unscrew the 4 screws (**E-Fig.4**) that secure the power steering pump support frame (**F-Fig.4**), A/C compressor and alternator.



NOTE

Drain the air conditioning system (**026008**).



Fig.4

6. Remove the 4 upper screws (**G-Fig.5**) and the 2 lower screws (**H-Fig.5**) that secure the thermostatic valve cover.

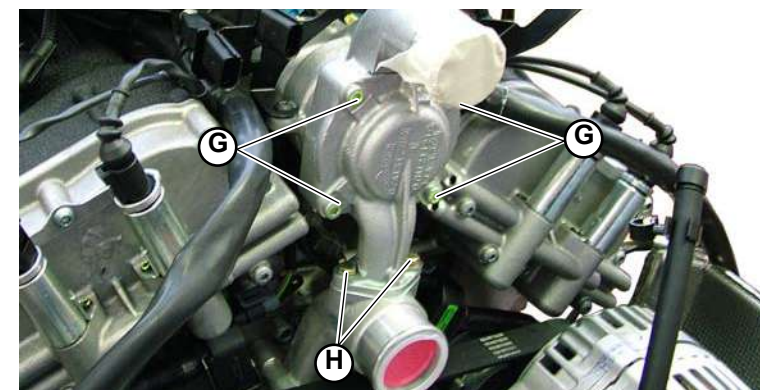


Fig.5

7. Remove the 3 nuts (**I-Fig.6**) that secure the water pump to the timing system cover.
8. Remove the water pump.



Fig.6



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Water pump assembly

1. Position the water pump with a new gasket.
2. Tighten the 3 nuts (**A-Fig.1**), securing the water pump to the timing system cover.
3. Position the thermostatic valve cover and secure it by tightening the 4 upper screws (**B-Fig.2**) and the 2 lower screws (**C-Fig.2**).
4. Tighten the 4 screws (**D-Fig.3**) that secure the power steering pump support frame (**E-Fig.3**), A/C compressor and alternator.
Screw attachment: **tightening torque (000800-6d)**.



Fig.1

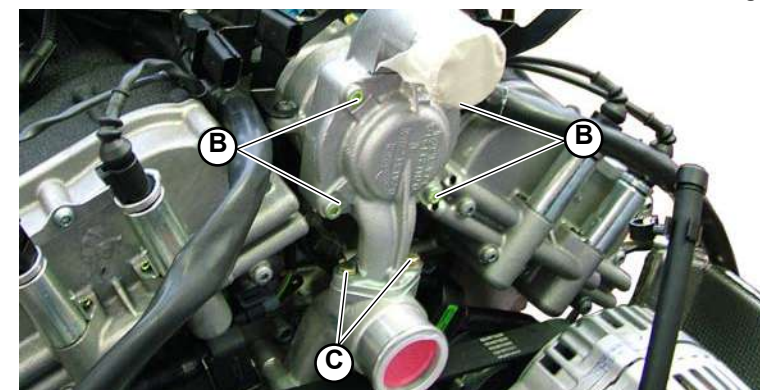


Fig.2

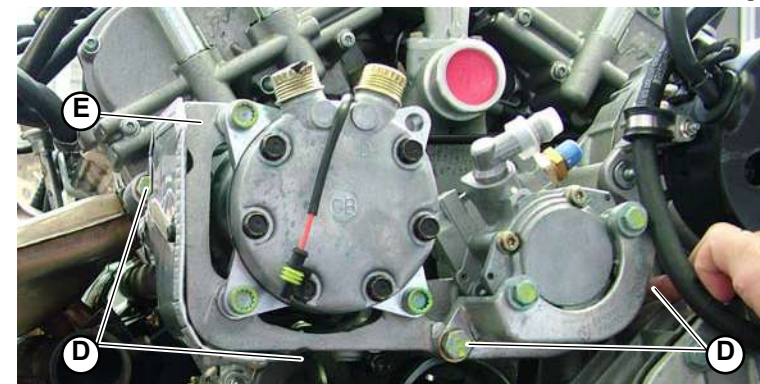


Fig.3



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5. Tighten the 2 screws (**F-Fig.4**) that connect the water pump and the power steering pump.
6. Assemble the auxiliary belt (**010102**).



NOTE

Check that the tension of the auxiliary belt is correct (**010102**).



Fig.4

7. Assemble the rear cross member, tightening the 4 screws onto the two inner sides (**G-Fig.5**).

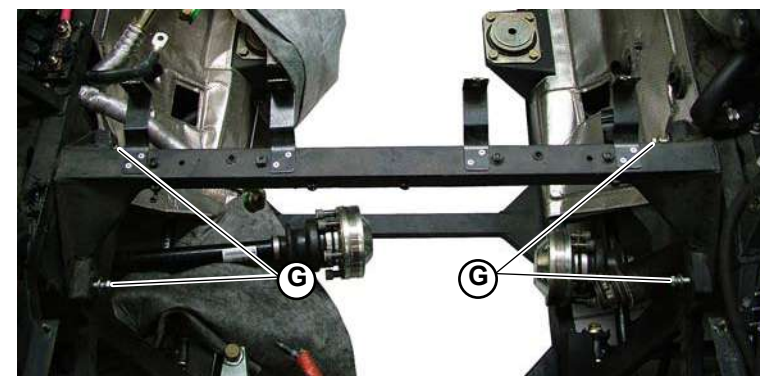


Fig.5

8. Reconnect the water pump delivery and intake pipes (**H-Fig.6**), securing them with the clamps (**I-Fig.6**).



NOTE

Top up the coolant (**026008**).

- Assemble the silencer safety grid (**025105**).

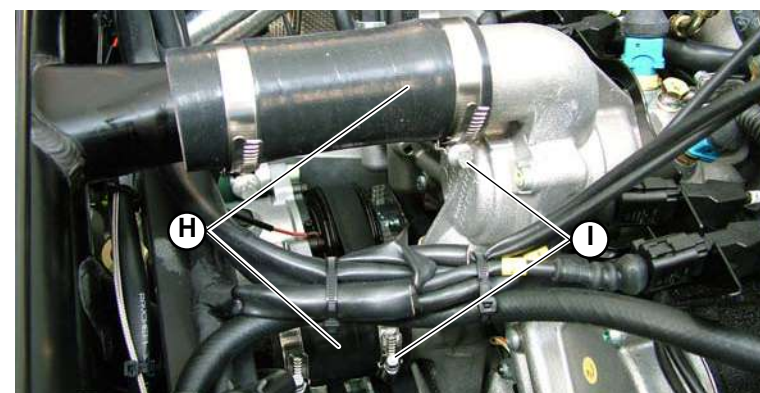


Fig.6



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Fuel supply system

The fuel supply system is divided into two parts and consists of the following:

- A tank;
- Two independent delivery lines each with pre-filter, electric pump and fuel filter;
- Two independent manifolds, each including fuel pressure regulator and six injectors;
- A return line in common.

Fuel System diagram (Fig.1)	
A.	Tank
B.	Pumps in the tank
C.	Filter
D.	Fuel Manifold
E.	Pressure regulator
F.	Immobilizer MED valves

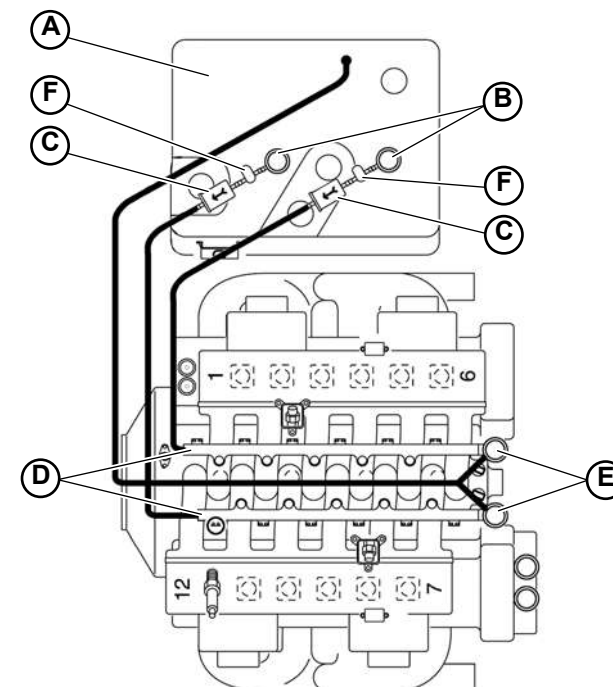


Fig.1



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Fuel pump

The two fuel pumps are supplied by a relay controlled by LIE control unit. For safety reasons the pump relevant to cylinder bank 1-6 is controlled by LIE control unit of cylinder bank 7-12 and vice versa. They are roller type positive displacement pumps with permanent magnet energizing.

Inside the pump there is a pressure relief valve that shorts the intake with the delivery if the pressure exceeds 5 bars.

The pump is also equipped with a check valve that, for a certain period of time, can hold the system under pressure with the pump at a standstill. This valve is especially important since by holding the system pressure it prevents fuel vapor from forming (vapor-lock) that causes damage when starting up with a warm engine.

The intake pipe of each pump is equipped with a protection pre-filter inside the tank.

Fuel Filter

The filter is fitted along the fuel delivery pipe downstream of the pump.

It consists of an aluminum foil wrapping and an internal polyurethane support around which is wound a powerful filtering element.

The arrow indicates the assembly direction (**Fig.2**).

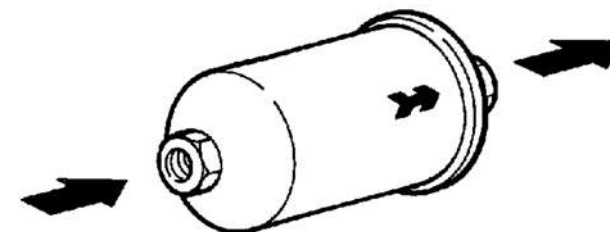


Fig.2