

BUGATTI

BUGCS037_Turbocharger_oil_pipes_replacement_V2

Service Campaign

1. APPLICABILITY

BUGATTI Chiron Super Sport & Centodieci

2. VIN RANGE

- List at the end of the document.
- Contact your BUGATTI regional service manager.

3. MARKET REGION

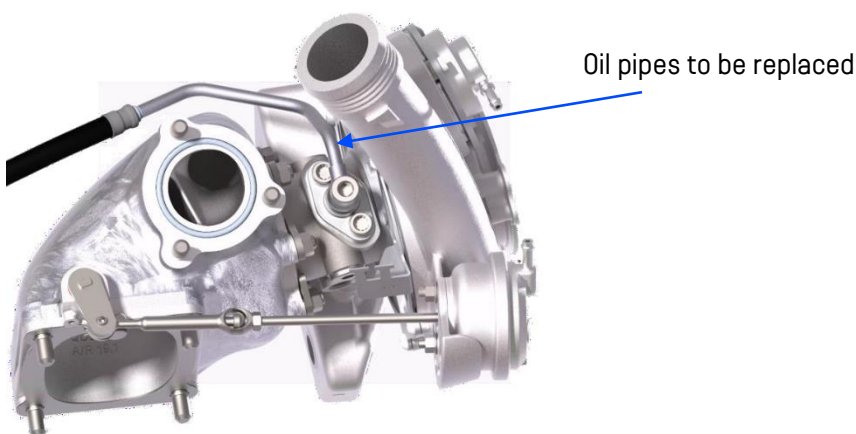
☒ All			
☐ North America	☐ Middle East	☐ Europe	☐ Japan

4. BULLETIN OBJECT

The four oil pipes associated with the turbochargers are to be replaced on 1600 HP engine.

5. DESCRIPTION

After internal verification, the turbocharger oil pipes are recommended to be replaced in order to increase durability.



Warning:



Comply with the vehicle preparation measures for maintenance and repair procedures. Refer to the official Workshop Manual, "General instructions about the vehicle".

If in any doubt regarding this procedure, please contact your BUGATTI regional after sales manager with questions regarding the procedure.

6. REQUIRED SPECIAL PARTS

Designation	Comments	Quantity	Reference
Oil Pipe Sub Assembly	Oil Pipe Turbocharger	1	07E 145 141 L
Oil Pipe Sub Assembly	Oil Pipe Turbocharger	1	07E 145 140 L
Seal	Seal turbocharger	4	07E 145 113
Oil Valve	Oil Valve turbocharger	4	07E 133 528A
Screw	Turbo charger screw	8	N 910 488 04
Nut	Monocoque	10	WHT 001 458
Screw	Engine mounting screws	4	WHT 002 027
Screw	Rear frame screws	8	WHT 002 018
Screw	Upper cross member	4	WHT 007 577
Nut	Upper cross member	2	WHT 001 457A
Screw	Lower cross member	10	WHT 007 579
Screw	Engine mounting	4	WHT 002 028
Nut	Catalytic converter	8	N 102 090 07
Seal	Catalytic converter	2	5B4 251 235
Seal	Catalytic converter	4	07E 253 232B
Nut	Catalytic converter	16	WHT 000 107

7. REQUIRED TOOLS

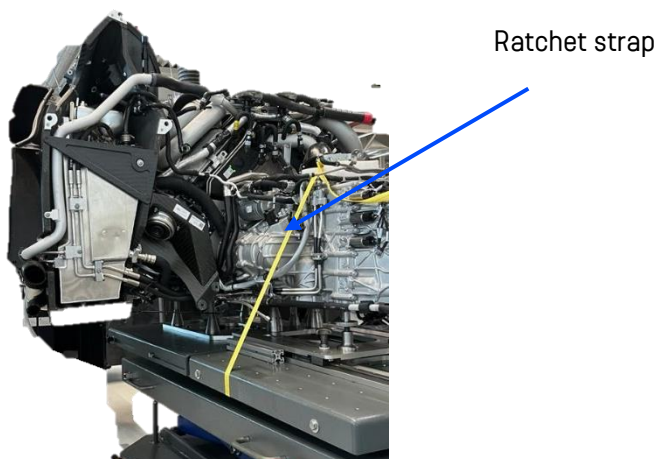
Designation	Quantity	Reference
WORKSHOP CRANE	1	-
ENGINE TABLE	1	VAS 6131
ENGINE HOLDER	1	BVK 098 100

8. PROCEDURE

-  - Comply with the instructions in the chapter "General instructions" → **page 27.**
- Following the workshop manual instruction for every operation
- Cleanliness must be ensured all along the procedure.

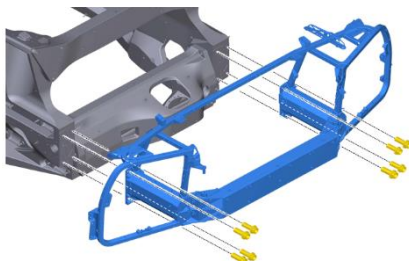
8.1. PREPARATION (CHASSIS DESASSEMBLY)

- Side panels L + R must be removed (Workshop manual — Body — Exterior).
- Rear Bumper must be removed (Workshop manual — Body — Exterior)
- Chassis must be split (Workshop manual - Installing and removing the direct-shift gearbox DSG).
- Powertrain + Rear chassis frame must be carefully installed on VAS 6131 equipped with BVK 098 100.
- Powertrain must be carefully attached to the VAS 6131 using ratchet strap.



8.2. REAR FRAME DISASSEMBLY

- Electrical connection must be disconnected from the E-boxes L + R.
- Complete Rear frame subassembly must be carefully removed.

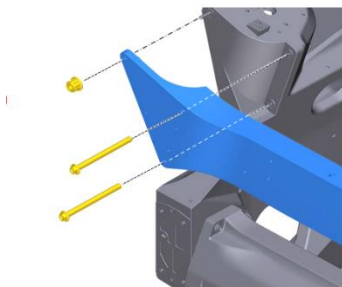


8.3. REAR LEFT CROSS MEMBER DISASSEMBLY

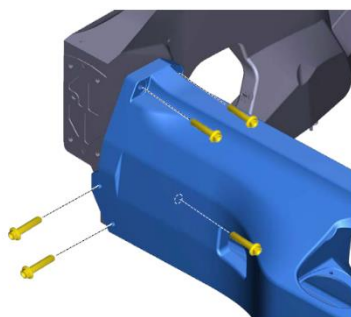


Each operation must be performed individually.

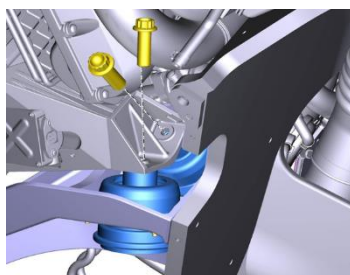
- Remove the rear left brake calipers + brake disc.
- Remove the rear left wheel shaft.
- Disconnect the subcomponents from the engine (Engine oil pipes, wires...)
- Remove Carbon air intake pipes.
- Carefully attach the rear left cross member using workshop crane.
- Remove the fastening screws and nut of the upper cross member.



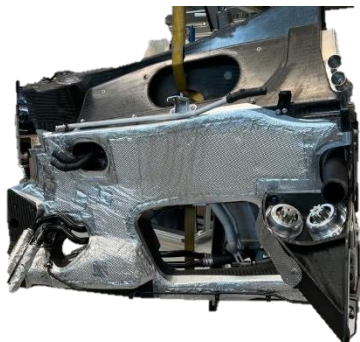
- Remove the fastening screws of the lower cross member.



- Remove the fastening screws from the mounting element.



- Remove the rear left cross member with its subcomponents.

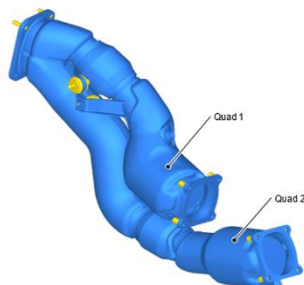


8.4. TURBO OIL PIPES REPLACEMENT LEFT SIDE

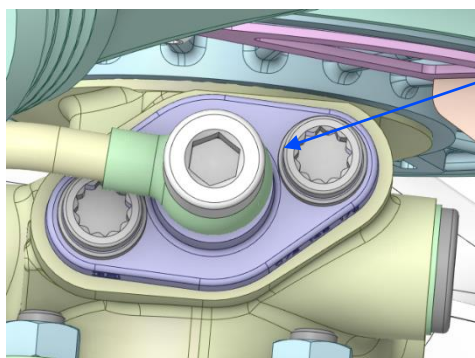


Cleanliness must be ensured all along the procedure to avoid foreign objects to enter the engine oil system.

- Catalytic converter must be removed (Quad 1/Quad 2).

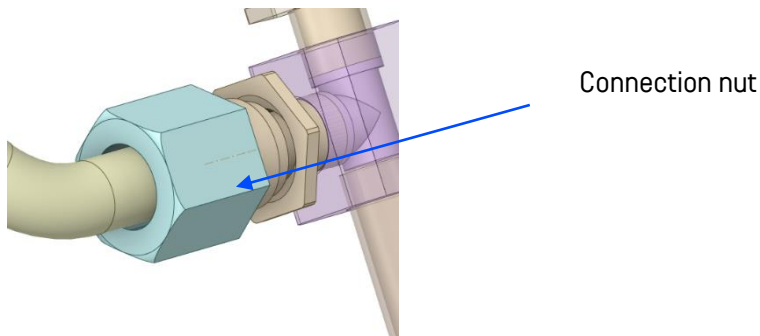


- Heatshield behind the catalytic converter must be removed (Q1/Q2 & Q3/Q4).
- Fastening screws of the turbocharger oil pipes must be removed (M10).
- Remove the Banjo screws on the turbochargers (Q1 & Q2).

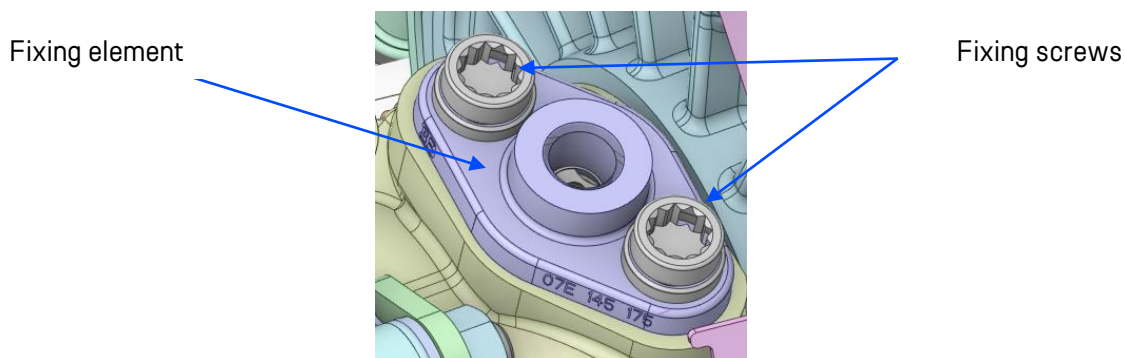


Banjo screw

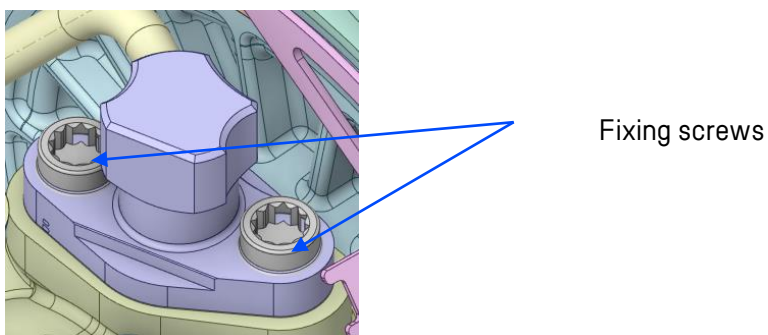
- Connection nut (M17) of the oil pipes must be unfastened.



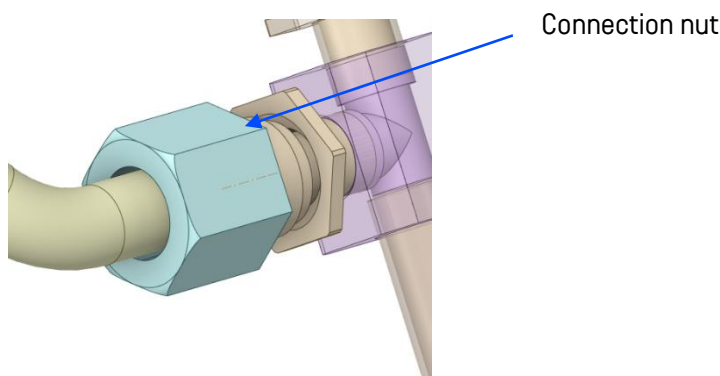
- Remove the turbo oil pipes.
- Remove the screws of the fixing element and remove it from the turbochargers (Q1 & Q2)



- Carefully clean the residual oil or foreign objects around the area.
- Carefully install the new valve check (Quad 1 & Quad 2).
- Carefully install the new turbocharger oil pipes (07E145140 L) and seals (07E145113).
- Screw the fastening screws of the oil pipes (M10)
- Install the new fastening screws (N 910 488 04 x4).



- Screw the connection nut.



- Tighten the turbocharger oil pipes to the appropriate torque.

Designation	Part number	Quantity	Torque
Fixing screw (M10 x 20)	N 101 705 12	2	40 Nm +-4 Nm
Fixing screw	N 910 488 04	4	20 Nm + 90°
Connection nut	07E145140 L	1	35 - 3 Nm

8.5. REAR LEFT CROSS MEMBER REASSEMBLY

- Re-assembly of the Rear left cross member must be performed in the reverse sequence of removal (See Chapter 8.3).

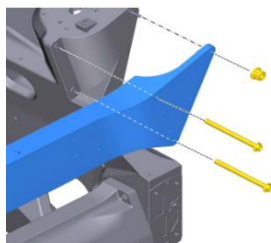
8.6. REAR RIGHT CROSS MEMBER DISASSEMBLY



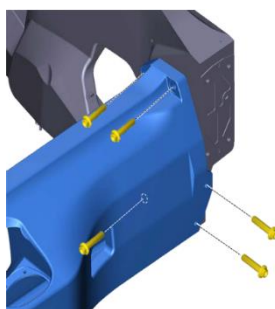
Each operation must be performed individually.

- Remove the rear right brake calipers + brake disc.
- Remove the rear right wheel shaft.
- Disconnect the subcomponents from the engine (Gearbox oil pipes, wires...)
- Remove Carbon air intake pipes.
- Carefully attached the rear right cross member using workshop crane.

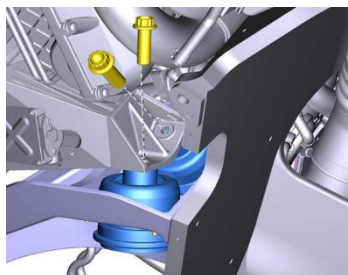
- Remove the fastening screws and nut of the upper cross member.



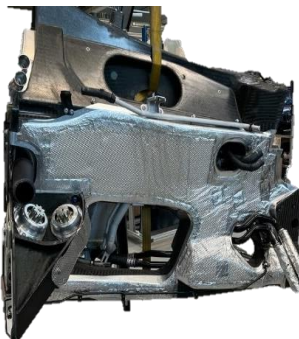
- Remove the fastening screws of the lower cross member.



- Remove the fastening screws from the mounting element.

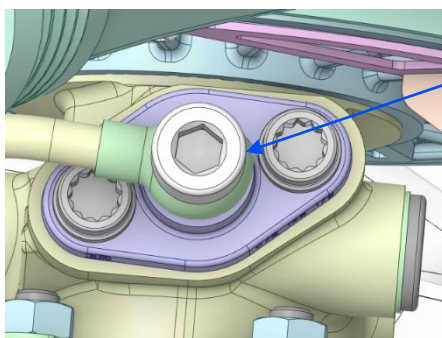


- Remove the rear right cross member with its subcomponents.



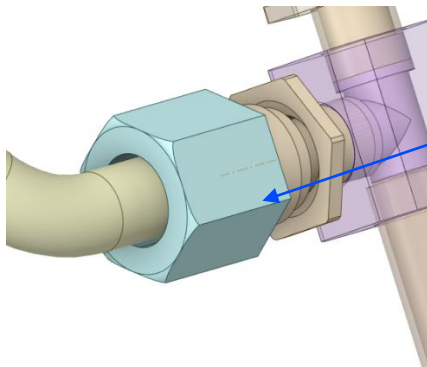
8.7. TURBO OIL PIPES REPLACEMENT RIGHT SIDE

- Fastening screws of the turbocharger oil pipes must be removed (M10).
- Remove the Banjo screws on the turbochargers (Quad 3 & Quad 4).



Banjo screw

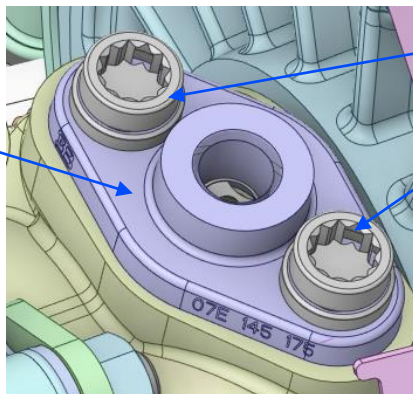
- Connection nut (M17) of the oil pipes must be unfastened.



Connection nut

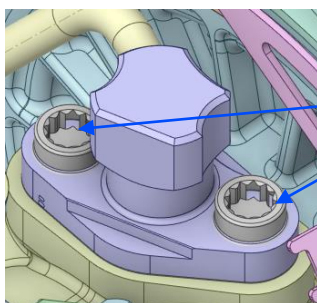
- Remove the turbo oil pipes.
- Remove the screws of the fastening element and remove it from the turbochargers (Quad 3 & Quad 4)

Fixing element



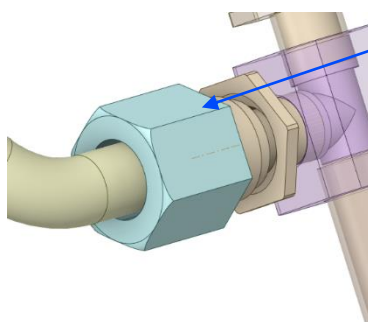
Fixing screws

- Carefully clean the residual oil or foreign objects around the area.
- Carefully install the new valve check (Quad 3 & Quad 4).
- Carefully install the new turbocharger oil pipes (07E145140 L) and seals (07E145113).
- Screw the fastening screws of the oil pipes (M10)
- Install the new fastening screws (N 910 488 04 x4).



Fixing screws

- Screw the connection nut.



Connection nut

- Tighten the turbocharger oil pipes to the appropriate torque.

Designation	Part number	Quantity	Torque
Fixing screw (M10 x 20)	N 101 705 12	2	40 Nm +-4 Nm
Fixing screw	N 910 488 04	4	20 Nm + 90°
Connection nut	07E 145 141 L	1	35 +- 3 Nm

8.8. REAR LEFT CROSS MEMBER REASSEMBLY

- Re-assembly of the Rear left cross member must be performed in the reverse sequence of removal (See Chapter 8.6).

8.9. CHASSIS REASSEMBLY

- Powertrain + Rear chassis frame must be removed from the VAS 6131 and reinstalled as defined in the Workshop manual (Workshop manual - Installing and removing the direct-shift gearbox DSG).
- Perform the reassembly of the vehicle in the reverse sequence as removal (Workshop manual - Installing and removing the direct-shift gearbox DSG).

8.10. CHASSIS SET UP

- Perform chassis Set up as defined in the Workshop manual (Workshop manual — Chassis).

9. ANNEXE (TABLE TIGHTENING TORQUE)

Designation	Comments	Quantity	Part number	Tightening Torque
Nut	Monocoque	10	WHT 001 458	70 +/- 3.5 Nm
Screw	Engine mounting screws	4	WHT 002 027	35 +/- 2 Nm
Screw	Rear frame screws	8	WHT 002 018	70 +/- 3.5 Nm
Screw	Upper cross member	4	WHT 007 577	28 +/- 1.5 Nm
Nut	Upper cross member	2	WHT 001 457A	30 +/- 1.5 Nm
Screw	Lower cross member	10	WHT 007 579	58 +/- 3 Nm
Screw	Engine mounting	4	WHT 002 028	80 Nm
Nut	Catalytic converter	8	N 102 090 07	40 +/- 4 Nm
Nut	Catalytic converter	16	WHT000107	40 Nm

BUGATTI

BUGCS037_Turbocharger_oil_pipes_replacement_V2

Service Campaign

10. VIN LIST

	Region			
	NAR	EU	ME	ASIA
S h o r t V I N	S6.001	S6.002	S7.031	S7.013
	S6.004	S6.003	S7.010	S7.041
	S7.002	S6.005	S7.014	S7.083
	S7.003	S7.012	S7.015	S7.086
	S7.004	S7.011	S7.030	S7.092
	S7.006	S7.016	S7.025	S7.105
	S7.007	S7.001	S7.026	S7.113
	S7.032	S7.017	S7.033	S7.091
	S7.008	S7.018	S7.024	
	S7.009	S7.019	S7.038	
	S7.005	S7.020	CD7.010	
	S7.034	S7.021	S7.050	
	S7.035	S7.023	S7.052	
	S7.037	S7.027	S7.049	
	S7.042	S7.022	S7.068	
	CD7.009	CD7.003	S7.069	
	CD7.008	S7.036	S7.080	
	S7.044	CD7.001	S7.093	
	S7.045	S7.039	S7.106	
	S7.046	CD7.002	S7.096	
	S7.047	CD7.004	S7.099	
	S7.048	S7.028	S7.108	
	S7.053	CD7.005		
	S7.051	CD7.006		
	S7.058	S7.029		
	S7.060	CD7.007		
	S7.088	S7.040		
	S7.059	S7.043		
	S7.061	S7.054		
	S7.062	S7.057		
	S7.063	S7.084		
	S7.067	S7.064		
	S7.110	S7.066		
	S7.071	S7.065		
	S7.072	S7.073		
	S7.078	S7.074		
	S7.085	S7.076		
	S7.081	S7.056		
	S7.087	S7.077		
	S7.082	S7.089		
	S7.097	S7.075		
	S7.101	S7.094		
	S7.098	S7.095		
	S7.090	S7.103		
	S7.102	S7.079		
	S7.109	S7.104		
	S7.055	S7.070		
	S7.107	S7.112		
	S7.111	S7.100		
	S7.500			

WARRANTY INFORMATION

OPERATION	REPAIR CODE	TIME
TURBO OIL PIPES REPLACEMENT	BUGCS037	65 Hrs

BUGATTI Bulletins are intended for use by experienced and trained technicians. If you lack the skills, tools, equipment and a suitable workshop for any procedure described in this document, we suggest you leave such repairs to an Authorized Bugatti Partner. See your BUGATTI Partner for advice on whether your vehicle may benefit from the information contained within this document.

The information contained in this Bulletin is accurate at the date of publication. However, BUGATTI Automobiles S.A.S. regularly updates technical information. Please check with your Bugatti Partner that the Bulletin you intend to use contains the latest available information.

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FIELD TECHNICAL INFORMATION VERSIONS HISTORY			
VERSION	MODIFICATION	AUTHOR	DATE
V1.0	Creation	L.SANDT	17.12.2024
V2.0	VIN list amended (Region information added)	L.SANDT	10.02.2024