

| | | |
|------------------------------|------------------------------|-----------------------|
| Technical Information | 6 cyl. 5/95 | 2 _E |
|------------------------------|------------------------------|-----------------------|

Second supplier of exhaust system

Rep. Gr. 2601

Vehicle Type: **911 Carrera, 911 Carrera 4, 911 Carrera 4S and 911 Carrera RS**

Engine Type: **M 64.20/21/22/23/24**

Model Year: 1996 (T)

Concerns: **Second supplier of exhaust system.**

Situation: Since the start of production of the 1996 model (T), 911 Carrera vehicles have been fitted with exhaust systems supplied by the Bischoff company or the Gillet company.

Due to differences of the individual components of the exhaust system, the catalytic converters and the heat exchangers of the Bischoff and the Gillet company are not compatible.

- 1 Catalytic converter
- 2 Heat exchanger (left)
- 3 Heat exchanger (right)
- 8 Rear muffler (left)
- 9 Rear muffler (right)
- 10 Tail pipes

2_E

6 cyl.
5/95

Technical Information

Part numbers of incompatible parts:

| Item | Designation | Bischoff parts | Gillet parts | Engine type |
|------|-------------------------------|----------------|----------------|-----------------|
| 1 | Catalytic converter | 993.113.213.16 | 993.113.213.31 | all RoW |
| 1 | Catalytic converter | 993.113.285.00 | 993.113.213.35 | M64.23/24 - USA |
| 1 | Catalytic converter | 993.113.213.17 | 993.113.213.33 | M64.21/22 - J |
| 1 | Catalytic converter | 993.113.213.21 | 993.113.213.34 | M64.20 - AUS** |
| 2 | Heat exchanger (left) | 993.211.039.07 | 993.211.039.10 | |
| 3 | Heat exchanger (right) | 993.211.040.07 | 993.211.040.10 | |
| 4 | Gasket | 930.111.192.06 | 928.111.127.03 | |
| 5 | Fastening nut M8 (7/12 pcs.)* | 999.084.052.02 | same | |
| 5a | Fastening nut M8 (6 pcs.) | — | 999.084.052.02 | |
| 6 | Hexagon nut M8 (5 pcs.) | 999.085.001.02 | — | |
| 7 | Sealing ring | 928.111.246.05 | — | |

* Bischoff = 7 pieces, Gillet = 12 pieces.

** AUS = Australia

Technical Information

6 cyl.
5/95

2_E

Repairs:

The catalytic converter (item 1), the heat exchangers (items 2/3) and the gaskets (item 4) of both suppliers are **not** identical by design; hence they can **not** be interchanged.

For this reason, the Porsche Parts Service offers catalytic converters, heat exchangers and gaskets of both suppliers.

The parts can be distinguished by the Porsche part numbers engraved on the components as well as by the name of the supplier - "Bischoff" or "Gillet".

The rear mufflers and tail pipes of both suppliers are interchangeable.

Assembly

Instructions:

Connecting the catalytic converter and the rear muffler:

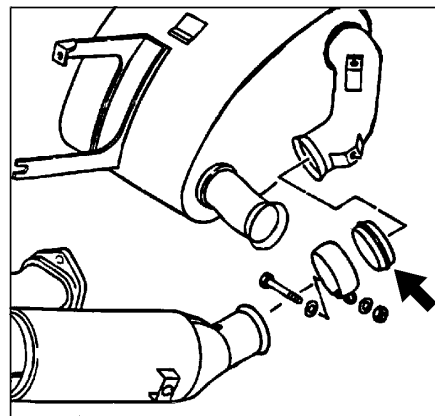
On a "Bischoff" catalytic converter, a sealing ring must be placed on both the right-hand and the left-hand sides (arrow).

For constructive reasons, these sealing rings are **not** required for "Gillet" catalytic converters.

The same applies to the connection between rear muffler and tail pipe:

"Bischoff" rear muffler = **with** sealing ring.

"Gillet" rear muffler = **without** sealing ring.



Connecting the heat exchanger and the catalytic converter:

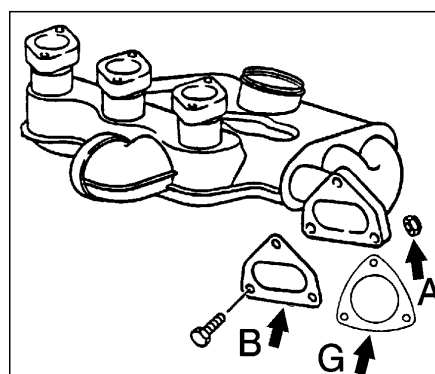
Different gaskets:

"Bischoff" = Gasket, 930.111.192.06, with oval-shaped opening (arrow B).

"Gillet" = Gasket, 928.111.127.03, with round opening (arrow G).

The nuts for the fastening screws have been welded onto the heat exchangers of the Bischoff company.

To install heat exchangers of the Gillet company, the fastening nuts M8, 999.084.052.02, must be used (arrow A).



Fastening the heat exchangers to the cylinder heads:

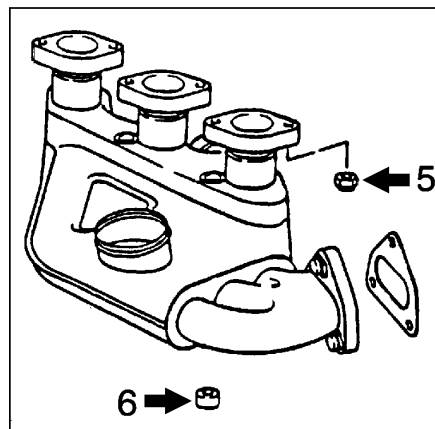
To fasten the heat exchangers to the cylinder heads, the following nuts have to be used because of the limited space available (also see parts list on page 2):

“Bischoff” heat exchanger:

- Fastening nuts M8 (7 pieces/arrow 5) and hexagon nuts M8 (5 pieces/arrow 6).

“Gillet” heat exchanger:

- Fastening nut M8 (12 pieces/arrow 5).



Tightening
torques:

Location

Tightening torque in Nm

- | | |
|---|---------|
| - Heat exchanger / cylinder head | 28 |
| - Heat exchanger / catalytic converter, primary muffler | 23 |
| - Catalytic converter / rear muffler (ball clamp) | 25...30 |
| - Rear muffler / tail pipe (ball clamp) | 25...30 |
| - Tensioning strap on catalytic converter, primary muffler | 20 |
| - Tensioning strap on rear muffler | 20 |
| - Oxygen sensor | 50...60 |
| - Plug on catalytic converter | 15 |

Reference: Repair Manual 911 Carrera (993), volume I, group 26.