

911 GT3 Manthey Performance Kit

Vehicle Type: **911 GT3**

Model Year: **As of 2021**

Cause: **Retrofitting**

Notice: The Manthey Performance Kit for the 911 GT3 RS (type 992) was developed in close collaboration between the Porsche Development Center in Weissach and Manthey Racing GmbH.

The Tequipment range is targeted to motor sports enthusiasts and amateur motor sports drivers.

NOTICE

- **The individual components of the 911 GT3 Manthey Performance Kit are precisely matched. For this reason, they must only be installed together on the vehicle. Individual offers are shown separately.**

Part Nos.:	992.044.855.00	911 GT3 (type 992) Manthey Performance Kit For vehicles with a front axle lift system (order no. 2UH) and a 20/21-inch Manthey lightweight wheel set
	992.044.855.01	911 GT3 (type 992) Manthey Performance Kit For vehicles without a front axle lift system (order no. 2UH) and with a 20/21-inch Manthey lightweight wheel set
	992.044.855.02	911 GT3 (type 992) Manthey Performance Kit For vehicles with a front axle lift system (order no. 2UH) and a 20/21-inch GT3 wheel set
	992.044.855.03	911 GT3 (type 992) Manthey Performance Kit For vehicles without a front axle lift system (order no. 2UH) and with a 20/21-inch GT3 wheel set

Parts to be ordered separately:

PAF.108.749	8 x	⇒ Hexagon flange bolt, M8 x 42, for upper axle guide
N 102.723.02	2 x	⇒ Hexagon collar nut, M10, for connecting rod
N 107.847.02	2 x	⇒ Hexagon flange bolt, M12 x 1.5 x 85, for lower axle guide
PAF.003.923	12 x	⇒ Hexagon nut, M8, for upper strut bearing
WHT.004.985	2 x	⇒ Hexagon shoulder nut, M14 x 1.5, for front shock absorber piston rod
9A7.008.677.00	2 x	⇒ Hexagon-head bolt, M12 x 1.5 x 80, for lower rear shock absorber
PAF.909.664	2 x	⇒ Hexagon collar nut, M12 x 1.5, for lower rear shock absorber

9A7.007.755.00	2 x	⇒ Cheese head bolt securing seat belt to seat
9A7.007.483.00	4 x	⇒ Outside hexagon round-head bolt, M10 x 28, to seat rail
PAF.910.423	2 x	⇒ Inside hexagon round/pan-head screw, M6 x 16, for rear diffusor
PAF.100.829	3 x	⇒ Hexagon-head bolt, M6 x 16, for rear diffusor
PAF.104.513	2 x	⇒ Cheese head bolt with multiple-tooth head, M12 x 1.5 x 55
PAF.912.572	6 x	⇒ Hexagon flange bolt M8 x 22
PAF.908.088	2 x	⇒ Hexagon flange bolt, M12 x 1.5

Suspension alignment: Intermediate plates may be required for adjusting the camber values on the front axle. Order the required intermediate plates accordingly:

9F1.401.443.H	2 x	⇒ Intermediate plate, 2.0 mm
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NOTICE

Vehicle and driver weight

- Before starting the alignment, please ensure the following conditions are met:
 - ⇒ Fuel tank is completely full
 - ⇒ Driver's weight (incl. helmet and racing suit) has been determined or requested and is placed on the driver's seat with an equivalent weight



Information

Please pass all this information on to the customer.

In addition, provide the customer with the Race Circuit brochure included with the scope of parts.



Information

- Some of the repair illustrations show only one side of the vehicle or a similar component.
- Naturally, some steps also have to be performed on the opposite side of the vehicle as well.

Content:

1. Preparatory work
2. Installing the door entry guards
3. Installing the door projectors
4. Chassis assembly
5. Installing brake lines
6. Installing front spoiler
7. Mounting of the flaps on the front apron
8. Installing the air control elements on the underbody
9. Installing rear diffusor
10. Installing rear wing

- 11. Installing rear wheel covers
- 12. Affixing stickers
- 13. Concluding work
- 14. Performing suspension alignment
- 15. Only for race track use: Installing towing loops

Assembly:**1** Preparatory work

- 1.1 Connect a battery charger. ⇒ *Workshop Manual '2X00IN Battery trickle charge'*

2 Installing the door entry guards

Set – Door entry guards (left and right) -
992.044.856.17

1 – Door entry guard

- 2.1 Remove ⇒ **1-1-** door entry guard. ⇒
Workshop Manual '680719 Removing and installing cover moulding'

- 2.2 Install illuminated door entry guard ⇒ **1-1-**.
⇒ *Installation and Conversion Instructions '680700 Door entry guard, illuminated ADY / ATX'*

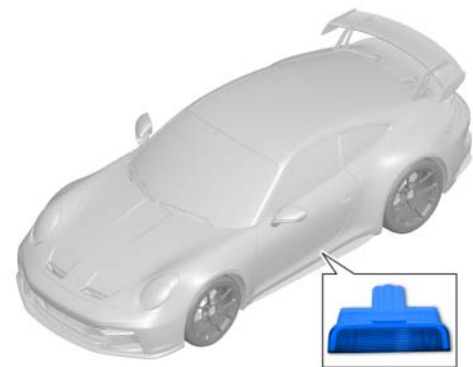


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3 Installing the door projectors

Set – Door projectors (left and right) -
992.044.856.16

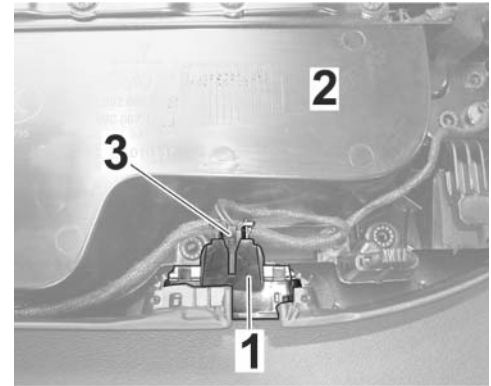
- 3.1 Remove door warning light. ⇒ *Workshop Manual '961619 Remove and install door warning light'*
- 3.2 Remove door panel. ⇒ *Workshop Manual '705919 Remove and install front door panel'*
- 3.3 Install new door projector ⇒ **3-1-**.
Ensure correct installation position and engagement.
- 3.4 Connect electric plug connection ⇒ **3-3-**.
The electric plug connection must engage perceptibly.



2

3.5 Install the door panel ⇒ 3-2-. ⇒ *Workshop Manual '705919 Remove and install front door panel'*

- 1 – Door projector
- 2 – Door panel
- 3 – Electric plug connection



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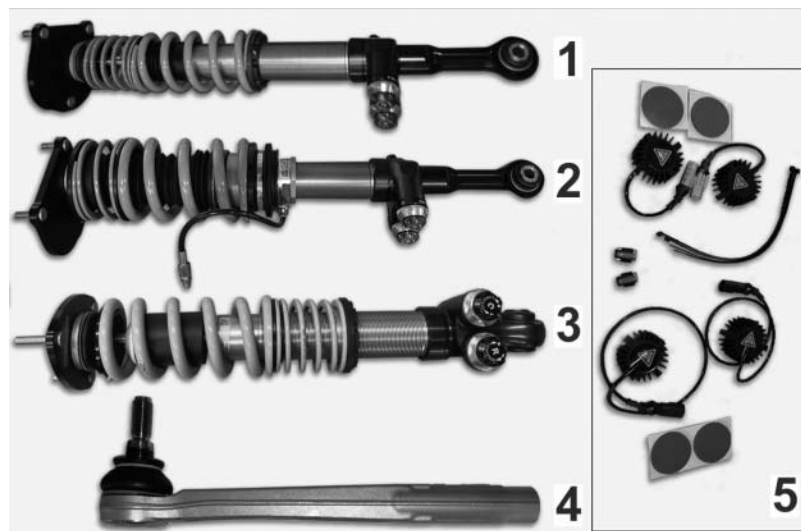
WARNING

Preloaded or pressurized components

- Risk of pinching or bruising
- ⇒ Do not reach into the danger area.
- ⇒ Relieve the tension on components before starting work.
- ⇒ Secure components to prevent them from loosening suddenly.

4 Chassis assembly

Leave all four wheels removed as described in the Chassis section.



4

Kit with front axle lift system – Kit with 4 dampers / springs / strut bearings including PASM deactivation kit - 992.044.856.10

Kit without front axle lift – 4 dampers / springs / strut bearings including PASM deactivation kit - 992.044.856.13

- 1 – Front-axle spring strut **without front axle lift** - 992.044.856.14 (LH) / 992.044.856.34 (RH)
- 2 – Front-axle spring strut **with front axle lift** - 992.044.856.11 (LH) / 992.044.856.31 (RH)
- 3 – Rear-axle spring strut - 992.044.856.12 (LH) / 992.044.856.32 (RH)
- 4 – Tie-rod end - 992.044.856.30
- 5 – PASM decommissioning kit

4.1 Remove all four wheels. ⇒ *Workshop Manual '440519 Removing and installing wheel with central bolt'*

4.2 Replace original tie-rod ends with tie-rod ends ⇒ 4-4-. ⇒ *Workshop Manual '488119 Remove and install tie-rod ball'*

There is no need to replace the tie-rod ends if the chassis package without aerodynamic components is installed.

4.3 Removing front spring strut. ⇒ *Workshop Manual '408519 Removing and installing front spring strut'*

4.4 Disassembling front spring strut

4.4.1 Disassembling spring strut. ⇒ *Workshop Manual '408537 Disassembling and assembling front spring strut'*

4.4.2 Remove front axle lift

Only for vehicles with front axle lift system.

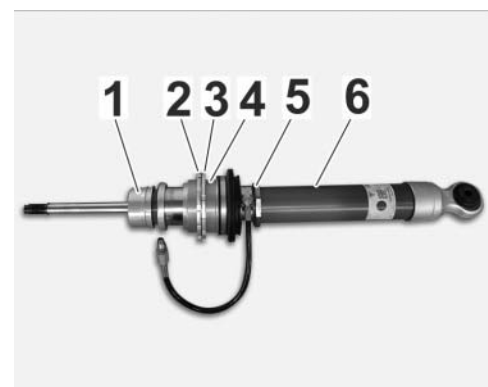
The tool for the lock nut supplied with the kit must be used!

4.4.3 Remove height-adjusting nut ⇒ 5-2- and lock nut ⇒ 5-3-.

4.4.4 Screw the front axle lift ⇒ 5-4- up until the dust boot detaches ⇒ 5-1- and remove dust boot ⇒ 5-1-.

4.4.5 Remove front axle lift ⇒ 5-4- and lock nut ⇒ 5-5- from the spring strut ⇒ 5-6- (use open-ended spanner 700 17 171 and open-ended spanner 700 17 184).

- 1 – Dust boot
- 2 – Height-adjusting nut
- 3 – Lock nut
- 4 – Front axle lift system
- 5 – Lock nut
- 6 – Spring strut



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4.5 Assembling new front spring strut **with** front axle lift

4.5.1 Mount lock nut ⇒ 6-17- and lift system ⇒ 6-16- on the spring strut ⇒ 6-12-. Do **not** tighten to the specified torque yet.

- 4.5.2 Install plastic cap ⇒ 6-15- on the shock absorber housing (use impact sleeve 700 17 169 and a plastic hammer).
- 4.5.3 Push spring plate ⇒ 6-9-, coil spring ⇒ 6-8-, intermediate ring ⇒ 6-7- and helper spring ⇒ 6-6- onto the piston rod.
Then mount the bellows ⇒ 4.5.4.
Install rubber stop ⇒ 6-3- and supporting mount ⇒ 6-2- on the piston rod and tighten nut ⇒ 6-1- (use special tool KW 685 10 179).
Ensure that the rubber stop ⇒ 6-3- is installed correctly: Pointed tapered end must be facing upwards as shown ⇒ 6. **Tightening torque 40 Nm (29.5 ftlb.)**



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- 1 – Nuts
- 2 – Supporting mount - 65A.49.376 (LH) / 65A.49.377 (RH)
- 3 – Rubber stop
- 4 – Bellows
- 4.1 – Mounting ring on bellows
- 4.2 – Upper spring plate
- 5 – Upper ring on bellows
- 6 – Auxiliary spring
- 7 – Intermediate ring
- 8 – Coil spring
- 9 – Lower spring plate (install with a distance of 10 mm from the lift system)
- 12 – Spring strut
- 15 – Plastic cap
- 16 – Lift system (carried over from standard chassis)
- 17 – Lock nut

- 4.5.4 Mounting bellows:
Check the type of bellows. Different types are available: **with** and **without** retaining ring.

Installing bellows mounting ring: Secure lift unit to prevent turning by fully screwing down lower spring plate ⇒ 6-9- and securing with grub screw. **Tightening torque 1 Nm (0.7 ftlb.)**

Tighten mounting ring for bellows ⇒ 6-4.1- (use hook spanner 685 11 296), countering at lower spring plate ⇒ 6-9- (use hook spanner 685 11 295). **Tightening torque 15 Nm (11.1 ftlb.)**

Install bellows mounting ring ⇒ 6-4.1- at short end of the bellows ⇒ 6-4-, install upper spring plate ⇒ 6-4.2- on bellows ⇒ 6-4- and secure with upper bellows ring ⇒ 6-5-.

The bellows ⇒ 6-4- is clipped onto the plastic cap when the spring strut is completely installed.

4.6 Assembling new front spring strut **without** front axle lift



Information

The new front spring strut **without** front axle lift comes pre-mounted. The assembly instructions are provided for the sake of completeness.

- 4.6.1 Install spacers ⇒ 7-14- on the piston rod.
 Install components ⇒ 7-9-2- on piston rod and tighten nut ⇒ 7-1- (use special tool KW 685 10 179).
Medium-strength Loctite must be used. Tightening torque 40 Nm (29.5 ftlb.)



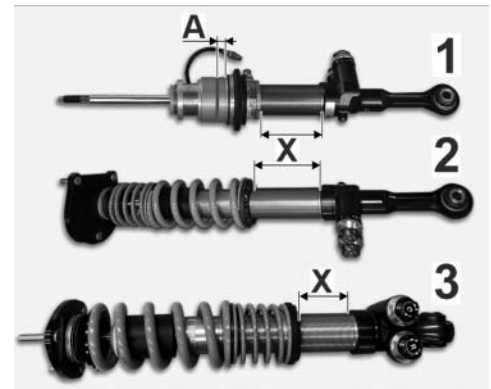
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- 1 - Nuts
- 2 - Supporting mount - 65A.49.376 (LH) / 65A.49.377 (RH)
- 3 - Rubber stop
- 4 - Bellows

- 5 - Upper spring plate
- 6 - Auxiliary spring
- 7 - Intermediate ring
- 8 - Coil spring
- 9 - Spring plate, lower
- 13 - Spring strut
- 14 - Spacers

4.7 Adjust the relevant dimension X.
On vehicles with a lift system, ensure that the lift system line is aligned with the center of the damping force adjustment wheel (A).

- 1 - Front axle with front axle lift
- 2 - Front axle without front axle lift
- 3 - Rear axle



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Front axle with front axle lift	Dimension A
Lower edge of spring seat to shoulder of lift unit	10 mm

Front axle with front axle lift	Dimension X
Lower edge of lift unit lock nut to shoulder of shock absorber-valve foot	103 mm

Front axle without front axle lift	Dimension X
Lower edge of spring seat to shoulder of damper-valve foot	110 mm

Rear axle	Dimension X
Lower edge of spring seat to shoulder of damper-valve foot	96 mm

4.8 Tighten spring plate grub screws.

Tightening torque 1 Nm (0.7 ftlb.)

4.9 Only for spring strut **with lift system**: Tighten lift system lock nut (use open-ended spanner 700 17 171 and open-ended spanner 700 17 184).

Tightening torque 66 Nm (48.7 ftlb.)

4.10 Install front spring strut. ⇒ *Workshop Manual '408519 Removing and installing front spring strut'*

Ensure the lift system line is not twisted or under strain.

When installing the spring strut, slide the strut bearing plate in the body connection as far as possible towards the outside of the vehicle.

4.11 Replacing rear spring strut

4.11.1 Remove rear spring strut. ⇒ *Workshop Manual '427119 Removing and installing spring strut, rear'*

4.11.2 Check height dimension X and adjust if necessary.

Rear axle	Dimension X
Lower edge of spring seat to shoulder of damper-valve foot	96 mm

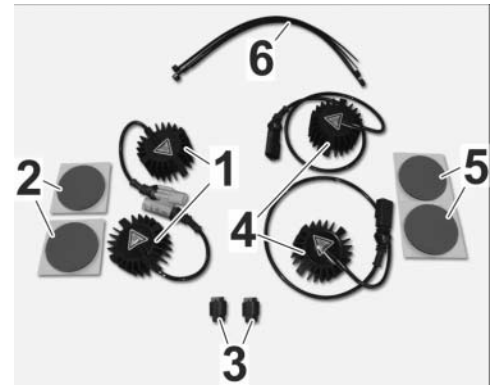
4.11.3 Install rear spring strut. ⇒ *Workshop Manual '427119 Removing and installing spring strut, rear'*

Do not complete the vehicle interior.

4.12 Installing front-axle deactivation set

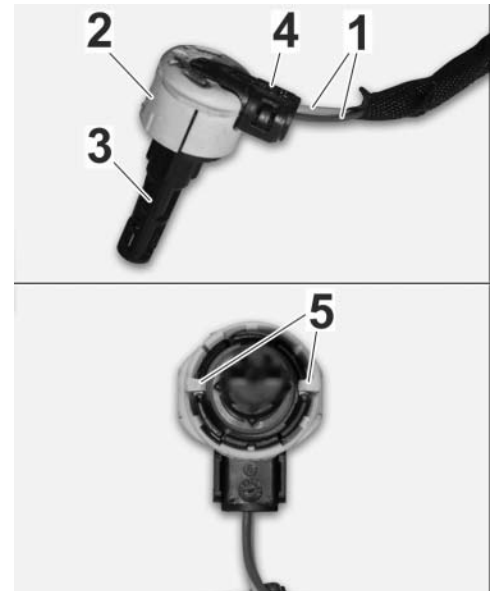
Use a suitable pin removal tool to replace the electric wiring harness.

- 1 – Front axle resistors
- 2 – Adhesive pads
- 3 – Plug
- 4 – Rear axle resistors
- 5 – Adhesive pads
- 6 – Cable tie



- 4.12.1 Replacing both original wiring harness connectors:
Release safety cap ⇒ 10-2- on locking lugs ⇒ 10-5-.
Release connector ⇒ 10-4- lock ⇒ 10-3-.

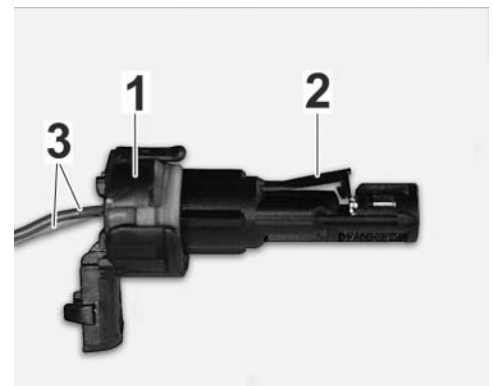
- 1 - Electric lines
- 2 - Locking cap
- 3 - Plug
- 4 - Fuse
- 5 - Locking lugs



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- 4.12.2 Release connector ⇒ 11-2- lock ⇒ 11-1- and unpin electric lines ⇒ 11-3-.

- 1 - Plug
- 2 - Fuse
- 3 - Electric lines

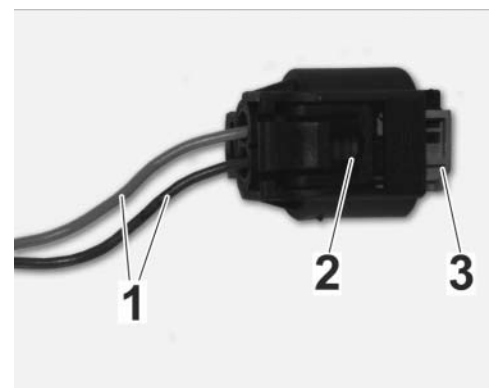


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- 4.12.3 Remove safety cap ⇒ 10-2- (no longer required).

- 4.12.4 Plug electric lines ⇒ 12-1- into new connector ⇒ 12-2- and lock fuse ⇒ 12-3-.

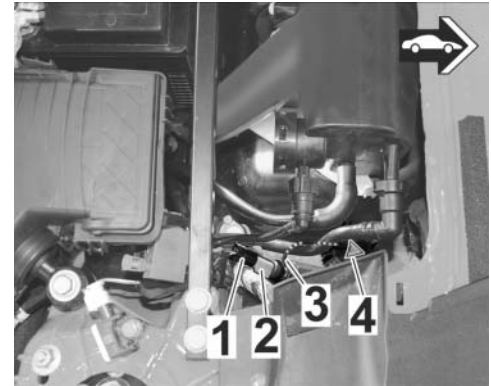
- 1 - Electric lines
- 2 - Plug
- 3 - Fuse



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- 4.12.5 Installing front-axle deactivation set on the **right vehicle side**:
Bring new connector \Rightarrow 13-1- into contact with vehicle connector \Rightarrow 13-2-.
Affix resistor \Rightarrow 13-4- on a level surface using the supplied adhesive pads.
Route the electric wire harness \Rightarrow 13-3- without tension and secure with a cable tie.

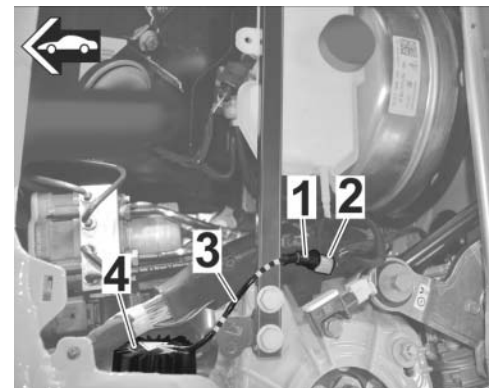
- 1 – New connector
- 2 – Vehicle connector
- 3 – Electric wiring harness
- 4 – Resistance



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- 4.12.6 Installing front-axle deactivation set on the **left vehicle side**:
Connect new plug connection \Rightarrow 14-1- with plug connection \Rightarrow 14-2- for vehicle.
Affix resistor \Rightarrow 14-4- on a level surface using the supplied adhesive pads.
Route the electric wire harness \Rightarrow 14-3- without tension and secure with a cable tie.

- 1 – New connector
- 2 – Vehicle connector
- 3 – Electric wiring harness
- 4 – Resistance

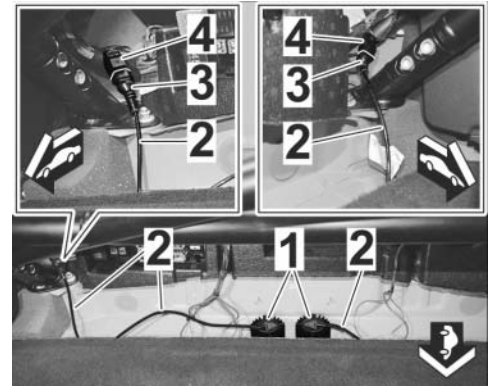


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- 4.13 Installing rear-axle styling set

- 4.13.1 Bring new connectors ⇒ 15-3- into contact with vehicle connectors ⇒ 15-4-.
- Isolate wiring harness ⇒ 15-2- from power supply and secure with cable tie.
- Affix resistors ⇒ 15-1- on a level surface in the middle of the vehicle using the supplied adhesive pads.

- 4.14 Complete vehicle interior. ⇒ *Workshop Manual '427119 Removing and installing rear spring strut - "Subsequent work" section'*



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⚠ WARNING

Danger of injury and damage from brake fluid

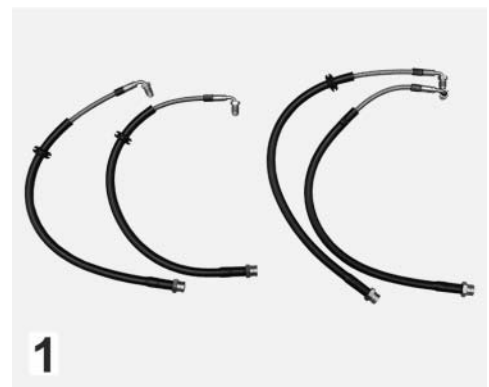
- **Poisonous if swallowed**
 - **Irritation and damage to skin**
 - **Avoid contact with paint surfaces**
- ⇒ **Only store brake fluid in suitable, labelled containers**
- ⇒ **Wear protective gloves and goggles**
- ⇒ **In the event of contact (eyes or skin), wash immediately with water**
- ⇒ **In the event of contact with paint surfaces, wash off immediately with water - do not wipe off**

5 Installing brake lines

- 1 – Brake line sections (steel braided), front axle and rear axle - 992. 044. 856.15

5.1 Conversion of front axle area
Longer section is installed on the front axle.

- 5.1.1 Loosen threaded connections ⇒ 17-2- and remove brake line ⇒ 17-1-.
- 5.1.2 Install new brake line ⇒ 17-1- without tension and ensuring no abrasion occurs.
- 5.1.3 Tighten all threaded connections ⇒ 17-2-.



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Tightening torque 10 Nm (7.4 ftlb.)

- 1 – Brake line
- 2 – Threaded connection

5.1.4 Clean adjacent components of any brake fluid that may have leaked out.

5.2 Conversion of rear axle area

5.2.1 Loosen brake line threaded connection ⇒ 18-2- and remove brake line ⇒ 18-1-.

5.2.2 Route the new brake line ⇒ 18-1- in the same way as the standard brake line and tighten the threaded connection ⇒ 18-2-.

Tightening torque 10 Nm (7.4 ftlb.)

- 1 – Brake line
- 2 – Threaded connection

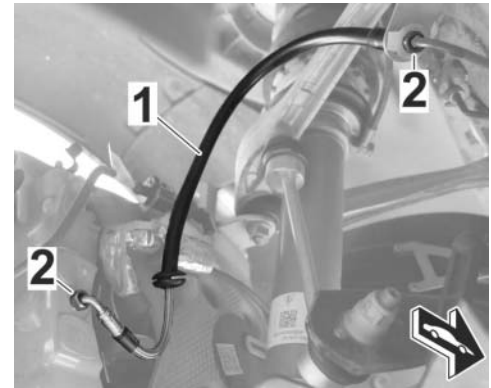
5.2.3 Clean adjacent components of any brake fluid that may have leaked out.

5.3 Bleed brake system. ⇒ *Workshop Manual '470107 Bleeding brake system'*

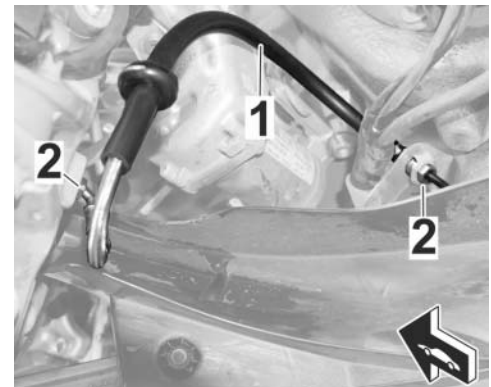
6 Installing front spoiler

- 1 – Front spoiler - 992.044.856.03

Mounting parts set: – Reinforcement plates with screws - 9A7.007.517.00



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1 – Front spoiler reinforcement plate

6.1 Remove front spoiler. ⇒ *Workshop Manual '66031925 Removing and installing front spoiler (centre)'*

6.2 Installing new front spoiler ⇒ 19-1-. ⇒ *Workshop Manual '66031925 Removing and installing front spoiler (centre)'*

6.3 Remove screws ⇒ 21-1- (no longer needed).

1 – Screws

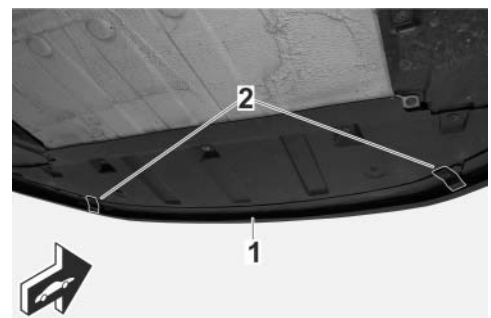


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6.4 Install reinforcement plates ⇒ 22-3- on front spoiler ⇒ 22-1- and secure with new screws from the fastening parts set. **Tightening torque 3.2 Nm (2.4 ftlb.)**

1 – Front spoiler

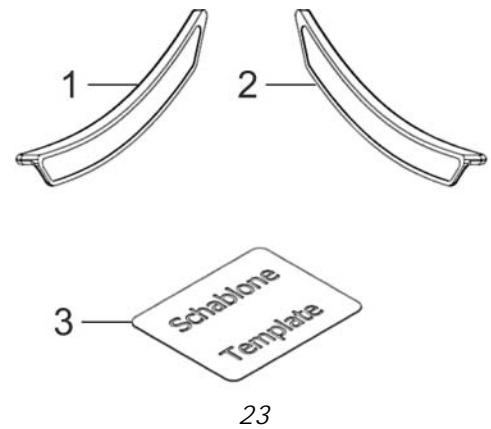
2 – Reinforcement plates



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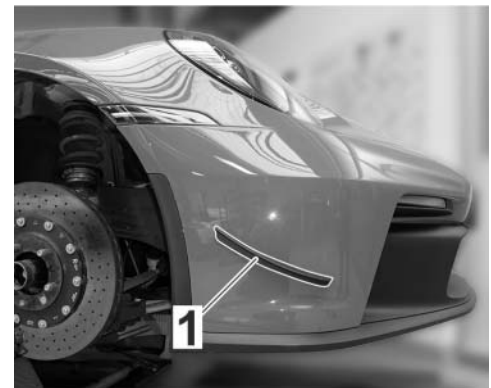
7 Mounting of the flaps on the front apron

- 1 – Left flap - 992.044.856.01
- 2 – Right flap - 992.044.856.02
- 3 – Template - 992.044.856.00



7.1 Thoroughly clean surfaces to adhere in flap area ⇒ 24-1- with isopropanol (alcohol). The adhesive surfaces must be free from dust, dirt and grease of any kind.

- 1 – Flap



7.2 Attach template ⇒ 25-1- using adhesive strips to side surface of front apron. **Ensure that the template is correctly aligned!**

- 1 – Template



Information

Check for correct flap alignment. The alignment **cannot** be corrected afterwards.



- 7.3 Remove protective film \Rightarrow 26-1- from flap, align with the edge of the template \Rightarrow 26-2- and press on firmly. Press the flap firmly and against the front apron for 10 seconds.

Use only the pre-affixed double-sided adhesive tape!

- 1 – Flap
2 – Template

- 7.4 Remove template \Rightarrow 26-2-. Installation on the left side is performed in the same way. Use the template reversed.



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8 Mounting the air control elements on the underbody

- 1 – Left air-guide element - 992.044.856.05
2 – Right air-guide element - 992.044.856.06

Mounting parts set: – Screw - 999.073.297.A2 with hexagon nut - 999.076.071.02

- 8.1 Mount the respective air-guide element \Rightarrow 28-1- on the underbody cover \Rightarrow 28-4- with underbody cover \Rightarrow 28-2- screws.

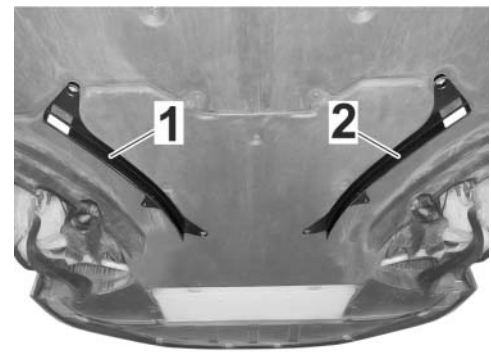
- 8.2 Transfer center air-guide element bore \Rightarrow 28-3- to underbody cover \Rightarrow 28-4-.

- 8.3 Remove air-guide element \Rightarrow 28-1-.

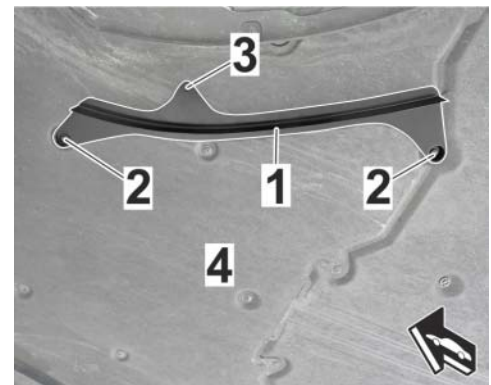
- 8.4 Remove underbody cover \Rightarrow 28-4-. \Rightarrow *Workshop Manual '519219 Removing and installing front cover'*

- 1 – Air-guide element
2 – Screw
3 – Center bore on air-guide element
4 – Underbody cover

- 8.5 Drill a \varnothing 6.5 mm hole at the center bore marking on the air-guide element.



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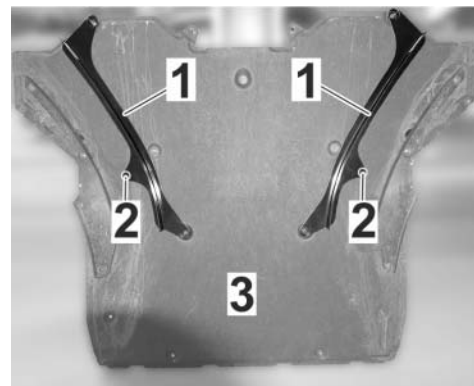


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- 8.6 Mount air-guide element ⇒ 29-1- on the underside of the underbody cover ⇒ 29-3- using a new screw and nut ⇒ 29-2- from the fastening parts set.

Tightening torque 10 Nm (7.4 ftlb.)

- 1 – Air-guide element
- 2 – Screw - 999.073.297.A2 with hexagon nut - 999.076.071.02
- 3 – Underbody cover (removed)



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- 8.7 Install underbody cover. ⇒ *Workshop Manual '519219 Removing and installing front cover'*

9 Installing rear diffuser

- 1 – Rear diffuser - 992.044.856.04

- 9.1 Remove rear diffuser ⇒ 31-1-. ⇒ *Workshop Manual '66591925 Removing and installing rear spoiler, lower part (diffuser)'*



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- 9.2 Install new rear diffuser ⇒ 31-1-. ⇒ *Workshop Manual '66591925 Removing and installing rear spoiler, lower part (diffuser)'*

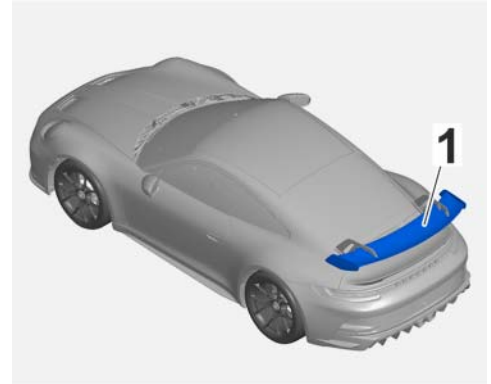
- 1 – Rear diffuser



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10 Installing rear wing

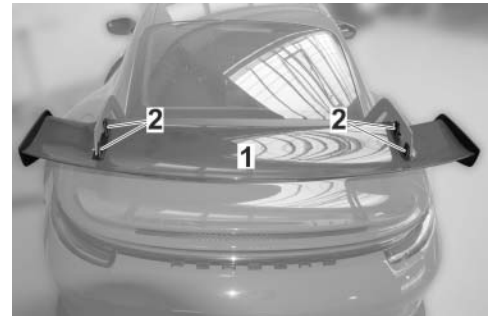
- 1 – Rear wing - 992.044.856.07



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- 10.1 Remove screws ⇒ 33-2- on rear wing ⇒ 33-1- and remove rear wing.

- 1 – Rear wing
2 – Screws



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10.1.1 Installing rear wing support

- 1 – Rear wing support set with mounting parts - 992.044.856.26

- 10.1.2 Remove rear lid. ⇒ *Workshop Manual '55901925 Removing and installing rear lid'*

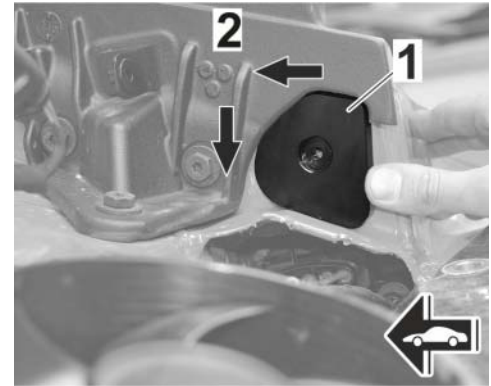


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- 10.1.3 Hold the support ⇒ 35-1- forward and down ⇒ 35-**Arrow**- at the wing support ⇒ 35-2- and mark fastening point.

If the support cannot be installed: Loosen wing supports, move them to their original position and tighten. ⇒ Workshop Manual '66581923 Removing and installing rear spoiler (wing plates)'

- 1 – Support
2 – Wing strut



35

- 10.1.4



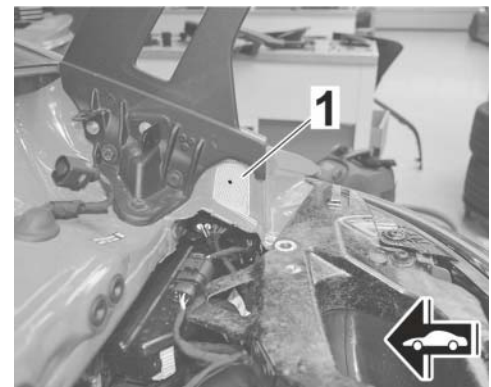
Information

For body work:

- Cover open components
- Wear personal protective gear
- Protect adjacent components from damage

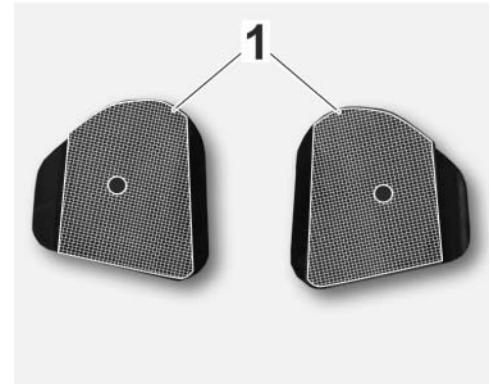
Center punch marking, pre-drill at Ø 2.5 mm and drill out to Ø 5.0 mm.

- 10.1.5 De-burr bore hole and roughen the contact surface on body ⇒ 36-1- using sandpaper (240 grit).



36

- 10.1.6 Roughen the supports in the hatched areas ⇒ 37-1- with sandpaper (240 grit).



37

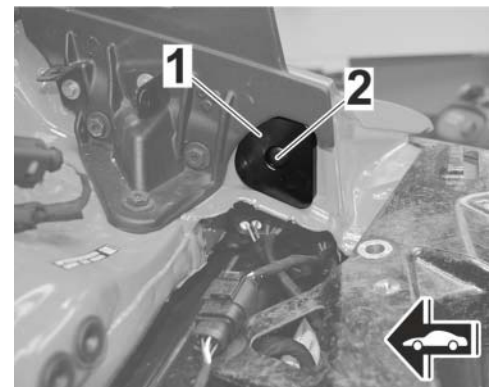
- 10.1.7 Apply adhesive with Part No. 00004330538 to the support ⇒ 38-1-.



38

- 10.1.8 Secure ⇒ 39-1- support with rivets ⇒ 39-2-.
Remove excess adhesive.

- 10.1.9 Install rear lid. ⇒ *Workshop Manual* '55901925 Removing and installing rear lid'



39

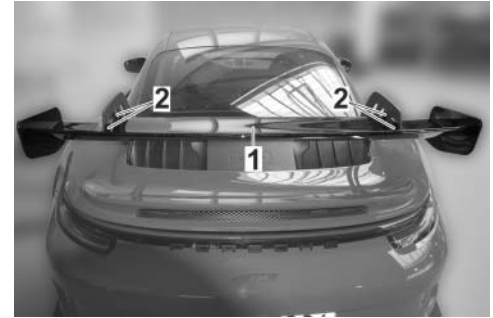
10.2 Install new rear wing ⇒ 40-1- and hand-tighten screws ⇒ 40-2-.
Tightening torque 8 Nm (5.9 ftlb.)

- 1 – Rear wing
- 2 – Screws

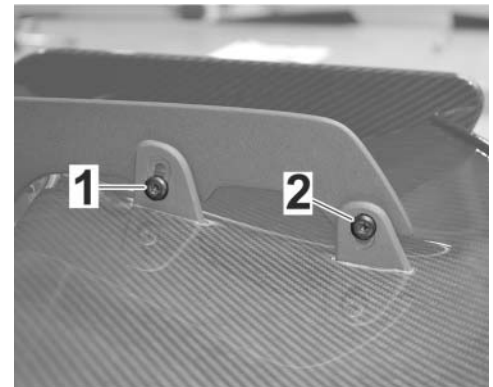
10.3 The rear wing angle can be adjusted for race track use. The wing position shown shows the road driving setting.

Front screw ⇒ 41-1-: at the very bottom, rear screw (screw with collar) ⇒ 41-2-: top.

Further settings can be found in the race track brochure.



40



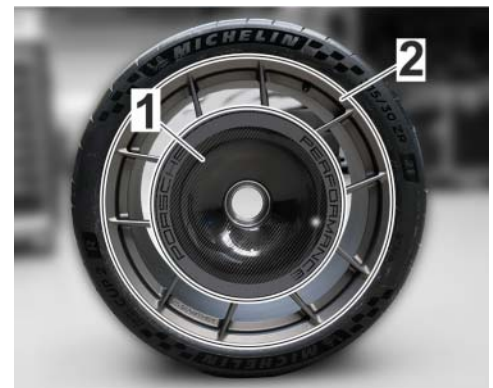
41

11 Installing rear wheel covers

- 1 – Wheel cover for Manthey lightweight wheel - 992.044.856.08 / for GT3 wheel - 992.044.856.09
- 2 – Manthey lightweight wheel / GT3 wheel

Wheel cover GT3 wheel 992.044.856.09
Rim protection sticker GT3 wheel 992.044.856.21
Manthey lightweight wheel cover 992.044.856.08
Manthey lightweight wheel rim protection sticker 992.044.856.27

11.1 Affixing decorative films on the wheel covers



42

**Information**

The decorative films must also be ordered in the desired color.
These are available from 01/2023.

- 11.1.1 Thoroughly clean the surfaces to adhere with isopropanol (alcohol). The adhesive surfaces must be free from dust, dirt and grease of any kind.

**Information**

Check that the decorative film is aligned correctly. The alignment **cannot** be corrected afterwards.



43

- 11.1.2

Remove protective film from the respective decorative film ⇒ 43-2- and position and affix it onto the wheel cover ⇒ 43-1-.

- 11.2 Installation of rear wheel covers on GT3 wheel

- 1 – Wheel cover 992.044.856.09
2 – GT3 wheel

- 11.2.1 Affixing rim protection sticker

**Information**

Both rear rims must be thoroughly cleaned and freed from brake debris.



44

- 11.2.2 Thoroughly clean the surfaces to adhere with isopropanol (alcohol). The adhesive surfaces must be free from dust, dirt and grease of any kind.

- 11.2.3 Affix the rim protection stickers
 ⇒ 45-1- to all rear wheel spokes.
 Make sure to affix the side flaps of the stickers carefully around the spokes.



45

11.3 Mounting GT3 wheel cover

- 1 – Wheel cover
- 2 – Fastening ring
- 3 – Screws

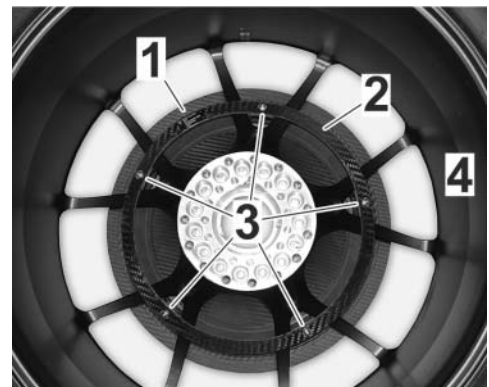
- 11.3.1 Remove screws ⇒ 44-3- and fastening ring ⇒ 46-2- from ⇒ 46-1- wheel cover.



46

- 11.3.2 Insert wheel cover ⇒ 47-1- into the wheel ⇒ 47-4- from the front, hold fastening ring ⇒ 47-2- against it from behind and tighten screws ⇒ 47-3-.

Make sure that the wheel cover is seated correctly in the rim and is flush with the fastening ring.
Tightening torque 6.8 Nm (5 ftlb.)

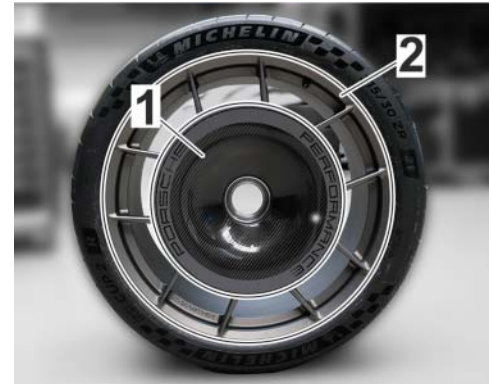


47

11.4 Mounting rear wheel covers on the Manthey lightweight wheel

- 1 – Wheel cover for Manthey lightweight wheel - 992.044.856.08
- 2 – Manthey lightweight wheel

11.4.1 Affixing rim protection sticker



48

- ##### 11.4.2
- Thoroughly clean the surfaces to adhere with isopropanol (alcohol). The adhesive surfaces must be free from dust, dirt and grease of any kind.



49

- #### 11.5
- Insert wheel cover ⇒ 50-1- into the rim ⇒ 50-2- from the front and tighten screws ⇒ 50-3-.

Make sure that the wheel cover is seated correctly in the rim.

Tightening torque 4 Nm (3 ftlb.) and Loctite 425 medium-strength screw lock.

- 1 – Wheel cover
- 2 – Wheel rim
- 3 – M5 x 12 pan-head screw



50

- #### 11.6
- Important!** Balance wheels after mounting the wheel covers. ⇒ *Workshop Manual '440594 Balancing wheels'*

- #### 11.7
- Install all wheels. ⇒ *Workshop Manual '440519 Removing and installing wheel with central bolt'*

12 Affixing stickers

**Information**

The stickers are to be ordered in the color of the customer's choice (black or white).

- 12.1 Carefully remove GT3 logo and adhesive residue.
- 12.2 Thoroughly clean the surfaces to adhere with isopropanol (alcohol). The adhesive surfaces must be free from dust, dirt and grease of any kind.

**Information**

The stickers can also be affixed wet. After removing the backing film, spray a little water or a mixture of water and washing-up liquid onto the sticker and the surface to be affixed.

12.3

Remove backing sheet from the respective sticker, align the protective film on the sticker flush at the front and bottom of the door and stick it on, then remove the protective film on the sticker.



51



52



53

13 Concluding work

- 13.1 Select the fault memory of all systems, work through any existing faults and erase the fault memory. ⇒ *Workshop Manual '033500 Fault memory for on-board diagnosis'*
- 13.2 Disconnect the battery charger. ⇒ *Workshop Manual '2X00IN Battery trickle charge'*

14 Perform suspension alignment.

For more information, see: Instructions for the measuring wheel system. ⇒ *Installation and Conversion Instructions '440000 Measuring wheel system'*

- 14.1 Measuring criteria:

- Tank capacity: **Full**
- Driver ballast: **Driver weight**

Damper clicking Performance	Front axle	Rear axle
Rebound stage (R) LowSpeed (Black)	7	7
Rebound stage (R) HighSpeed (gold)	8	6
Pressure stage (C) LowSpeed (Black)	7	7
Pressure level (C) HighSpeed (Gold)	9	9
Steel anti-roll bar	Center position = medium	Center position = medium
Ride height on tires	104.0 mm	247.0 mm

Damper clicking Comfort	Front axle	Rear axle
Rebound stage (R) LowSpeed (Black)	9	10
Rebound stage (R) HighSpeed (gold)	9	12
Pressure stage (C) LowSpeed (Black)	10	10
Pressure level (C) HighSpeed (Gold)	10	11
Steel anti-roll bar	Center position = medium	Center position = medium
Ride height on tires	104.0 mm	247.0 mm

14.2 Measurement log:

Measurement log (executing PORSCHE dealer)			
Wheel alignment values (worldwide)	Initial readings	Setpoint values	Final measurement
Front axle			
Toe unpressed (total)		- 2 mm	
Camber with wheels in straight-ahead position		- 2.6°	
Rear axle			
Toe per wheel		+ 2 mm	
Camber		- 2.6°	

Installed on:	Mechanic:	Acceptance:	Stamp:
(Date)	(First Name)	(Name of Foreman)	(Porsche dealer)

15 Installing towing loops



Information

The towing loops are **not** approved for use on public roads!

Race Track only.

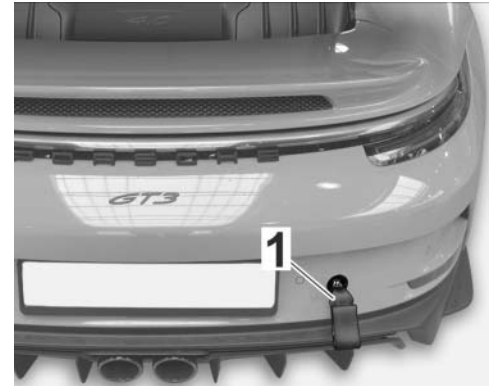
- 1 – Front towing loop
- 2 – Rear towing loop
- 3 – Small spacer
- 4 – Medium spacer
- 5 – Large spacer

15.1 Remove both towing hook covers (front and rear).



- 15.2 Screw the respective towing loop ⇒ 54-1, 2- into the device provided in order to check the positions of the towing loop.
Illustration of towing loop ⇒ 55-1-not OK, turned 180 °.

1 – Rear towing loop



55

- 15.3 Depending on position, install one or more of the three supplied spacers ⇒ 54-3, 4, 5- on the respective towing loop ⇒ 54-1, 2- and screw in again.

The logo on the respective towing loop ⇒ 56-1- must point straight upwards and the hook-and-loop fastener must point towards the vehicle.

1 – Front towing loop



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Labor Time: 911 GT3 Manthey Performance Kit

Includes: Installing 911 GT3 Manthey Performance Kit.

Labor time: **1200 TU**

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