

Topic	Body/equipment: front wing - corrosion on wheel arch
Market area	Worldwide with North America (1WA)
Brand	Volkswagen
Transaction No.	2007396/15
Level	EH
Status	Released for publishing
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Golf 4, Golf 5

Corrosion on the wheel arch of the front wing (illustration 1, red ellipse).



Mainly diesel vehicles are affected.



Illustration 1

Technical background

The foam pad on the inner wing (damping for wheel arch of diesel vehicles) presses the wheel arch against the upper edge of the wing and chafes through the paint in the contact area.

Dirt and movements of the wheel arch liner assist the creation of corrosion.

Production change

Modified cut of the foam pad.

Golf 4: not introduced.

Golf 5: from 06.2006 (with model year 07).

Measure

1. Repair the wheel arch

or

2. Replace wing

Shorten the foam pad on the inner wing. After removing the corrosion (metallic blank) and treating the affected areas apply the filler 2K-Epoxid anti-corrosion treatment. Seal off the contact/edge area with PU adhesive (part number: AKD 476 KD5 05).

1. Repair the wheel arch on the wing

If the edge area is only slightly corroded (no through-corrosion/perforation), proceed as follows:

Shorten the foam pad on the inner wing (illustration 2, arrows) to get a free play of about 10 mm between wheel arch liner and foam pad.

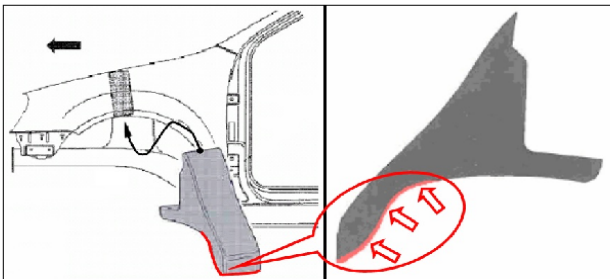


Illustration 2

Remove the corrosion.

Apply the anti-corrosion treatment 2K etch primer according to the pre-treatment described in the paint repair manual - a further layer is not necessary.

Apply on the inner wing (in the complete contact/edge area) PU adhesive (part number: AKD 476 KD5 05) as further edge protection (illustration 3, green line).

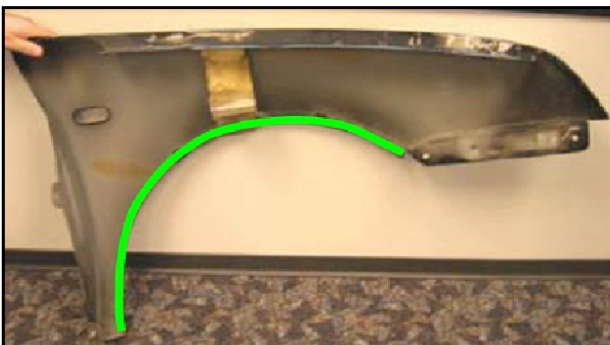


Illustration 3

Restore the paint structure according to the paint repair manual.

2. Replace wing

A replacement of the wing because of through-corrosion/perforation needs the approval of the importer.

Replace the wing according to the repair manual.

Apply PU adhesive (part number: AKD 476 KD5 05) on the new part as further edge protection (illustration 3, green line).

For acoustic reasons the foam pad must not be completely removed.

When fitting the wheel arch liner make sure that it has no contact with the wing edge.

If necessary adjust the liner.

Warranty accounting instructions

Service number/damage code/manufacture: 6616/ 0018/ ...



- **A replacement of the wing because of through-corrosion/perforation needs the approval of the importer. Attach a photo of the complaint and one of the complete wing to the claim.**
- The labour times are correct at the time of publication. The time units (TU) may differ slightly, if the repair catalogue has been updated. The information in the repair operations catalogue applies, except for the open time items (... 99).
- The necessary time for using the diagnostic tester are not included in the above times; they are kept separate.

Accounting with APOS:

Golf 4 (1J*): Repair wing

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	Repair operation	Designation	Time units (TU)	Material units (MU)
Main operation	63 29 19 00	Remove and install front bumper cover <u>Includes:</u> Remove and install grille	90 TU	–

Main operation	94 53 19 00	Remove and install side indicator	20 TU	–
Main operation	44 05 19 00	Remove and install wheel	20 TU	–
Associated operation	66 16 19 50	Remove and install front wheel arch liner	20 TU	–
Associated operation	66 16 41 99	Align foam pad and wheel arch liner	20 TU 1)	–
Associated operation	51 01 73 50	Apply underbody sealer	10 TU	–
Associated operation	50 55 41 99	Repair 1 wing (remove corrosion)	30 TU 1)	–
Associated operation	50 55 42 99	Repair 2 wings (remove corrosion)	50 TU 1)	–
Associated operation	50 55 51 99	Seal off 1 wing (PU adhesive)	30 TU 1)	–
Associated operation	50 55 52 99	Seal off 2 wings (PU adhesive)	50 TU 1)	–
Main operation	50 55 79 99	Paint front wing	70 TU 1)	3 ME
Associated operation	51 01 71 99	Prepare body for painting	160 TU 1)	–
The repair operations include all the work of this TPI.				

1) Use the above times only for this TPI.

Golf 4 (1J*): Replace wing

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	Repair operation	Designation	Time units (TU)	Material units (MU)
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Main operation	63 29 19 00	Remove and install front bumper cover <u>Includes:</u> Remove and install grille	90 TU	–
Associated operation	50 55 19 50	Remove and install front wing <u>Includes:</u> Remove and install front wheel arch liner Remove and install wheel Remove and install side indicator Remove and install bonnet seal	90 TU	–
Associated operation	51 01 73 50	Apply underbody sealer	10 TU 1)	–
Main operation	66 16 41 99	Align foam pad and wheel arch liner	20 TU 1)	–
Associated operation	50 55 51 99	Repair 1 wing (remove corrosion)	30 TU 1)	–
Associated operation	50 55 52 99	Repair 2 wings (remove corrosion)	50 TU 1)	–
Associated operation	51 01 71 53	Prepare body for painting	160 TU	–
Main operation	50 55 61 50	Paint new front wing	70 TU	4 ME
The repair operations include all the work of this TPI.				

1) Use the above times only for this TPI.

Golf 5 (1K1*): Repair wing

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	Repair operation	Designation	Time units (TU)	Material units (MU)
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Main operation	63 29 19 00	Remove and install front bumper cover <u>Includes:</u> Remove and install grille	70 TU	–
Main operation	63 29 19 20	Remove and install front bumper cover (Golf GTI Edition 30/ GTI Pirelli) <u>Includes:</u> Remove and install grille	70 TU	–
Main operation	44 05 19 00	Remove and install wheel	20 TU	–
Associated operation	66 16 19 50	Remove and install front wheel arch liner	20 TU	–
Associated operation	66 16 41 99	Align foam pad and wheel arch liner	20 TU ¹⁾	–
Associated operation	51 01 73 50	Apply underbody sealer	10 TU	–
Associated operation	50 55 41 99	Repair 1 wing (remove corrosion)	30 TU ¹⁾	–
Associated operation	50 55 42 99	Repair 2 wings (remove corrosion)	50 TU ¹⁾	–
Associated operation	50 55 51 99	Seal off 1 wing (PU adhesive)	30 TU ¹⁾	–
Associated operation	50 55 52 99	Seal off 2 wings (PU adhesive)	50 TU ¹⁾	–
Main operation	50 55 79 99	Paint front wing	70 TU ¹⁾	3 ME
Associated operation	51 01 71 99	Prepare body for painting	160 TU ¹⁾	–
The repair operations include all the work of this TPI.				

¹⁾ Use the above times only for this TPI.

Golf 5 (1K1*): Replace wing

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	Repair operation	Designation	Time units (TU)	Material units (MU)
Main operation	63 29 19 00	Remove and install front bumper cover <u>Includes:</u> Remove and install grille	70 TU	–
Main operation	63 29 19 20	Remove and install front bumper cover (Golf GTI Edition 30/ GTI Pirelli) <u>Includes:</u> Remove and install grille	70 TU	–
Associated operation	50 55 19 50	Remove and install front wing <u>Includes:</u> Remove and install front wheel arch liner Remove and install wheel	70 TU	–
Associated operation	51 01 73 50	Apply underbody sealer	10 TU	–
Main operation	66 16 41 99	Align foam pad and wheel arch liner	20 TU 1)	–
Associated operation	50 55 51 99	Seal off 1 wing (PU adhesive)	30 TU 1)	–
Associated operation	50 55 52 99	Seal off 2 wings (PU adhesive)	50 TU 1)	–
Associated operation	51 01 71 53	Prepare body for painting	160 TU	–
Main operation	50 55 61 50	Paint new front wing	70 TU	4 ME

The repair operations include all the work of this TPI.

1) Use the above times only for this TPI.

Accounting with APOS/2:



For the Golf 4 (1J*) an accounting in APOS/2 is not possible.

Golf 5 (1K1*): Repair wing

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Model	Illustration	Position	Number	Designation	Activity	Time units	Material units (MU)
1K1*	807-00	13	807217	Remove and install front bumper cover	19	*	–
1K1*	821-10	11	805977	Remove and install complete front left wheel arch liner	201	*	–
1K1*	821-10	11	805978	Remove and install complete front right wheel arch liner	201	*	–
1K1*	821-10	11	805977	Align foam pad and front left wheel arch liner	42	20	–
1K1*	821-10	11	805978	Align foam pad and front right wheel arch liner	42	20	–
1K1*	821-10	1	821021	Apply underbody sealer on left wing	74	10	–
1K1*	821-10	1	821022	Apply underbody sealer on right wing	74	10	–
1K1*	821-10	1	821021	Repair left wing (remove corrosion)	42	25	–
1K1*	821-10	1	821022	Repair right wing (remove corrosion)	42	25	–

1K1*	821-10	1	821021	Seal off left wing (PU adhesive)	52	25	–
1K1*	821-10	1	821022	Seal off right wing (PU adhesive)	52	25	–
1K1*	LLA-00	24	LA0083	Prepare body for painting	72	160	–
1K1*	LLA-00	5	LA0014	Right wing	793	70	3
1K1*	LLA-00	6	LA0013	Left wing	793	70	3
The repair operations include all the work of this TPI.							

Golf 5 (1K1*): Replace wing

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Model	Illustration	Position	Number	Designation	Activity	Time units
1K1*	821-10	1	821021	Replace left wing	55	*
1K1*	821-10	1	821022	Replace right wing	55	*
1K1*	821-10	11	805977	Align foam pad and front left wheel arch liner	42	20
1K1*	821-10	11	805978	Align foam pad and front right wheel arch liner	42	20
1K1*	821-10	1	821021	Apply underbody sealer on left wing	74	10
1K1*	821-10	1	821022	Apply underbody sealer on right wing	74	10
1K1*	821-10	1	821021	Seal off left wing (PU adhesive)	52	25
1K1*	821-10	1	821022	Seal off right wing (PU adhesive)	52	25
1K1*	LLA-00	5	LA0014	Right wing	61	*
1K1*	LLA-00	6	LA0013	Left wing	61	*
The repair operations include all the work of this TPI.						