

Your Ref: BMW M4 Coupe
(chassis number WBS32AZ010CH55247)
Our Ref : CI/TP23005443/D

28 May 2023

Hong Hin Motor Works

25 Kaki Bukit Road 4 #03-33
Synergy @ KB
Singapore 417800

INSPECTION REPORT OF AN UNREGISTERED BMW M4 COUPE MOTOR CAR WITH CHASSIS NUMBER WBS32AZ010CH55247

1. I refer to your request on 16 May 2023 to conduct a physical inspection of an unregistered BMW M4 Coupe motor car bearing chassis number WBS32AZ010CH55247 (herein referred to as "**Motor Car**").
2. The purpose of this inspection is to primarily determine: -
 - a) the general road worthiness of the Motor Car, whether there is any possible mechanical problem(s) and/or operational issue(s) to the various operating systems of the Motor Car;
 - b) whether there was any work (repair) done to the chassis/structural body of the Motor Car, and if yes, whether all major components, welding and critical points of the Motor Car has been properly restored.

Damage to the Motor Car

3. The photographs provided to me had showed damage to the frontal portion and left rear portion of the Motor Car. Body parts damaged at the frontal portion include the front bumper, front bumper left lower grille, front bumper right lower grille, front bumper sensors, front bumper tow cover, front bumper sponge, front bumper reinforcement, front bumper under cover, front grilles, front bonnet, front right headlamp, front right headlamp lower bracket, front left headlamp, front right oil cooler, front right fender, front right fender inner shield and front left fender amongst others.
4. The Motor Car's front right wheel along with its front right tyre and undercarriage parts at the front right wheel that included the front right lower arm, front right knuckle arm, front right steering tie rod end, front right shock absorber, front right brake caliper and front right brake rotor amongst others, were all detached from the Motor Car.

5. As for the left rear portion of the Motor Car, I had observed damage to the rear left fender, rear left taillamp and rear bumper amongst others.
6. The front left passenger airbag of the Motor Car was deployed as seen from the photographs that were provided to me. See photo 1 – 4 below.



Photo 1 shows the front right body of the Motor Car (photograph provided to me). The Motor Car was observed to have sustained damage at its frontal portion. The front bumper, front bumper right lower grille, front bumper sensors, front bumper tow cover, front bumper sponge, front bumper reinforcement, front bumper under cover, front grilles, front bonnet, front right headlamp, front right headlamp lower bracket, front right oil cooler, front right fender and front right fender inner shield were amongst the body parts that were observed to have been damaged. The Motor Car's front right wheel along with its front right tyre and undercarriage parts at the front right wheel that included the front right lower arm, front right knuckle arm, front right steering tie rod end, front right shock absorber, front right brake caliper and front right brake rotor amongst others, were also all detached from the Motor Car. The front left passenger airbag (arrowed) of the Motor Car was deployed.



Photo 2 shows the front left body of the Motor Car (photograph provided to me). The Motor Car was observed to have sustained damage at its frontal portion. The front bumper, front bumper left lower grille, front bumper sensors, front bumper under cover, front grilles, front bonnet, front left headlamp and front left fender were amongst the body parts that were observed to have been damaged. The front left passenger airbag (arrowed) of the Motor Car was deployed.



Photo 3 shows the rear left body of the Motor Car (photograph provided to me). The Motor Car's left rear portion was also observed to be damaged. The rear left fender, rear left taillamp and rear bumper were amongst the body parts that were damaged.



Photo 4 shows the rear right body of the Motor Car (photograph provided to me). Apart for the frontal portion and left rear portion, the photographs provided to me did not show physical damage to other areas of the Motor Car.

Inspection of the Motor Car

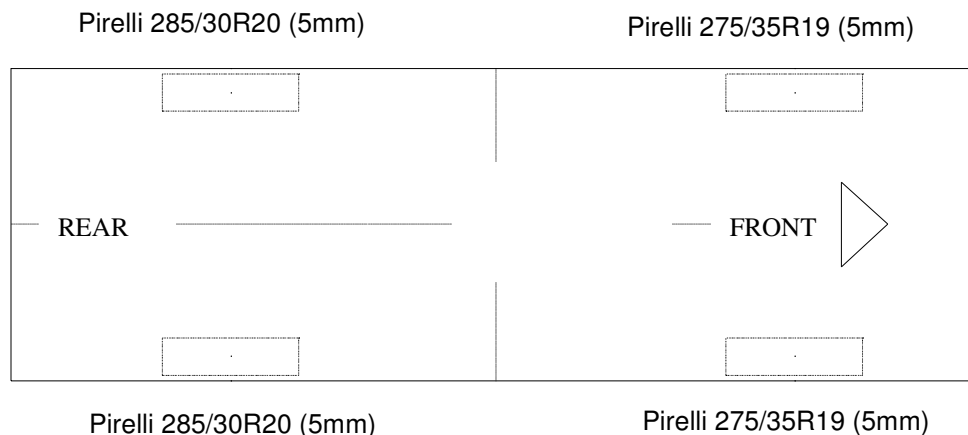
7. Following the request, I had carried out a physical inspection of the Motor Car on 22 May 2023 at the premises of 25 Kaki Bukit Road 4 #03-33, Synergy @ KB, Singapore 417800. I also conducted a short test drive of the Motor Car during this inspection. My observations and comments with respect to this inspection and test drive are set out below.
8. The mileage of the Motor Car recorded at the time of my inspection was 9,544km. The Motor Car was also hoisted up during the inspection to facilitate my examination of its undercarriage.

Exterior Condition

9. The Motor Car was observed to be in a relatively good general condition with no loose exterior fittings observed.

Tyres and Wheel Rims

10. It was fitted with 19inch (front) and 20inch (rear) sport wheel rims that were wrapped with tyres that were observed to be of serviceable condition. The tyres were also sufficiently inflated for vehicular operation. The tyre brand, tyre size and approximate remaining tread depth of the 4 tyres of the Motor Car were recorded as follows: -



Body Panels (Detachable & Non-detachable)

11. The detachable body panels of the Motor Car like the front fenders, front bumper, rear bumper, doors, front bonnet and rear bootlid amongst others were all found to be fitted securely.

12. Checks on the non-detachable body panels like the rear body panels, floorboard, roof panel, pillars and rocker panels amongst others, revealed that these body panels were spot welded onto the chassis/structural body of the Motor Car. The original factory sealant at the joints of the non-detachable body panels was all untouched indicating no replacement of the non-detachable body panels was carried out; and that these body panels were all originally fitted.

Chassis/Structural Body

13. Visually, I did not find any weld marks, other than the original spot weld marks, on the chassis/structural body of the Motor Car. The original factory sealant at the joints along the chassis/structural body was also untouched, again indicating that no replacement of the chassis/structural body was carried out; and that the chassis/structural body was originally fitted.

Interior Compartment (Seats)

14. The seats of the Motor Car were found to be secured to the floorboard of the Motor Car via seat rails bolted onto the floorboard. Retractable seat belt reels and pre-tensioners were fitted on all seats of the Motor Car. The seat belts were tested and were able to be fastened securely into the respective pre-tensioners that were fixed to the side of all the seats.

Electronic Safety Features

15. The Motor Car's automatic self-test of the functionality of its various electronic safety features like the Anti-Lock Brake System (ABS), Supplemental Restraint System (SRS), Integral Active Steering (IAS), Tyre Pressure Monitor (TPM) and Dynamic Stability Control (DSC) during cranking of the engine had indicated that these electronic systems were in working condition. This was determined from the respective warning lights disappearing from the instrument panel after the self-test.

Engine Compartment & Operating Fluids

16. My examination of the engine compartment of the Motor Car revealed that the various parts and components inside the engine compartment were all intact and properly fitted. The engine oil, brake fluid and engine coolant were all found to be of sufficient level for operating purposes. Visually, there was also no contamination found to these fluids.
17. My checks on the underside of the Motor Car revealed no sign(s) or indication(s) of fluid leakage and/or fluid stain(s). The engine block and automatic transmission assembly were both secured properly. All undercarriage components of the Motor Car were also observed to be intact and secured in an appropriate manner.

Steering System & Braking System

18. Static brake tests conducted on the Motor Car revealed no abnormality. The brake booster had responded well to the various tests conducted. There was also no abnormal movement of the brake pedal when it was depressed. The brake hoses and brake pipes were all intact with no leakage found. In general, the static brake tests had suggested that there was no internal leakage of pressure/vacuum in the braking system of the Motor Car and that the braking system is in serviceable condition.

19. Static test on the steering system of the Motor Car also revealed no abnormality to the steering system. I did not experience any abnormal free play and/or other resistance when turning the steering wheel left and right to full lock positions. My visual examination of the various steering components which had included the rack and pinion, tie rods, tie rod ends, and ball joints revealed that these components were all generally in good condition.

Test Drive of the Motor Car

20. I subsequently conducted a short test drive of the Motor Car to operationally determine if there was any possible mechanical problem(s) to the various operating systems of the Motor Car. The test drive was carried out within the building premises of Synergy @ KB, where I was able to make multiple right turns and left turns; travel over road humps; left bend and right bend; upslope and downslope.

21. During this test drive, the general performance, stability, braking and handling of the Motor Car were satisfactory. No abnormal sound(s) was heard when executing left turns and right turns or when the Motor Car was going over road humps.

22. Operationally, I did not find any abnormal behaviour of the steering system and braking system. The Motor Car had responded well to my steering input and was able to come to a complete stop effectively during braking. The mileage of the Motor Car at the end of the test drive was 9,546 km.

Conclusion

23. Basing on my physical inspection of the Motor Car, I am of the view that the overall general condition of the Motor Car was relatively good as at the time of my inspection. There was no sign(s) or indication(s) of any work (repair) done to the chassis/structural body of the Motor Car. There was also no sign(s) or indication(s) of fluid leak and/or fluid stain found.

24. The body parts at the frontal portion and left rear portion, as well as the undercarriage parts at the front right wheel of the Motor Car were all visually examined, and it was noted that the repair/restoration works carried out to the damaged area of the Motor Car (refer to photograph 1 - 3 above) were reasonably adequate and in order.

25. My test drive of the Motor Car revealed no evidence to suggest possible mechanical problem(s) to the Motor Car. I did not experience any abnormal behaviour and/or sound(s) from the various operating systems of the Motor Car. The general performance, stability, braking and handling of the Motor Car were satisfactory throughout the Motor Car's short test drive. In general, I had found the Motor Car to be of road worthy condition. See photo 5 – 36 below taken at the time of my inspection.



Photo 5 shows a general view of the front right body of the Motor Car at the time of my inspection. The Motor Car was observed to be in a relatively good general condition with no loose exterior fittings observed. The body parts at the frontal portion of the Motor Car were visually examined and it was observed that the repair/restoration works carried out to the damaged area of the Motor Car (refer to photograph 1 & 2 above) were reasonably adequate and in order.



Photo 6 shows a closer view of the Motor Car's front right headlamp, front right fender, front right wheel rim and front right tyre at the time of my inspection. The body parts at the frontal portion of the Motor Car were visually examined and it was observed that the repair/restoration works carried out to the damaged area of the Motor Car (refer to photograph 1 & 2 above) were reasonably adequate and in order.



Photo 7 shows a closer view of the Motor Car's front bumper, front bumper right lower grille, front bumper right sensors and front right headlamp. The body parts at the frontal portion of the Motor Car were visually examined and it was observed that the repair/restoration works carried out to the damaged area of the Motor Car (refer to photograph 1 & 2 above) were reasonably adequate and in order.



Photo 8 shows a closer view of the Motor Car's front bumper, front bumper right lower grille, front bumper left lower grille, front bonnet and front grilles. The body parts at the frontal portion of the Motor Car were visually examined and it was observed that the repair/restoration works carried out to the damaged area of the Motor Car (refer to photograph 1 & 2 above) were reasonably adequate and in order.



Photo 9 shows a general view of the front left body of the Motor Car at the time of my inspection. The Motor Car was observed to be in a relatively good general condition with no loose exterior fittings observed. The body parts at the frontal portion of the Motor Car were visually examined and it was observed that the repair/restoration works carried out to the damaged area of the Motor Car (refer to photograph 1 & 2 above) were reasonably adequate and in order.



Photo 10 shows a closer view of the Motor Car's front bonnet, front left fender, front left door and left side wing mirror. The body parts at the frontal portion of the Motor Car were visually examined and it was observed that the repair/restoration works carried out to the damaged area of the Motor Car (refer to photograph 2 above) were reasonably adequate and in order.



Photo 11 shows a general view of the frontal body of the Motor Car at the time of my inspection. The Motor Car was observed to be in a relatively good general condition with no loose exterior fittings observed. The body parts at the frontal portion of the Motor Car were visually examined and it was observed that the repair/restoration works carried out to the damaged area of the Motor Car (refer to photograph 1 & 2 above) were reasonably adequate and in order.



Photo 12 shows a general view of the rear left body of the Motor Car at the time of my inspection. The Motor Car was observed to be in a relatively good general condition with no loose exterior fittings observed. The body parts at the left rear portion of the Motor Car were visually examined and it was observed that the repair/restoration works carried out to the damaged area of the Motor Car (refer to photograph 3 above) were reasonably adequate and in order.



Photo 13 shows a closer view of the Motor Car's rear bumper, rear bumper left reflector and rear left taillamp. The body parts at the left rear portion of the Motor Car were visually examined and it was observed that the repair/restoration works carried out to the damaged area of the Motor Car (refer to photograph 3 above) were reasonably adequate and in order.



Photo 14 shows a closer view of the Motor Car's rear bumper, rear left fender, rear left taillamp and rear left wheel rim. The body parts at the left rear portion of the Motor Car were visually examined and it was observed that the repair/restoration works carried out to the damaged area of the Motor Car (refer to photograph 3 above) were reasonably adequate and in order.



Photo 15 shows a general view of the rear right body of the Motor Car at the time of my inspection. The Motor Car was observed to be in a relatively good general condition with no loose exterior fittings observed. The mileage of the Motor Car recorded at the time of my inspection was 9,544km.

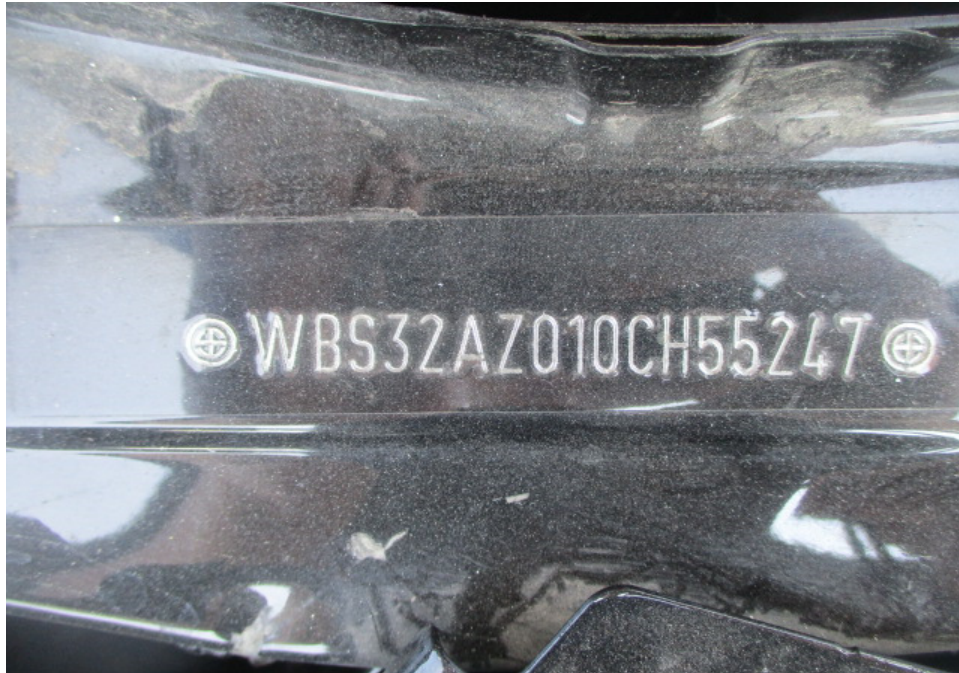


Photo 16 shows the chassis number of the Motor Car. The chassis number recorded was WBS32AZ010CH55247.



Photo 17 shows a general view of the engine compartment of the Motor Car at the time of my inspection. The various parts and components inside the engine compartment were all observed to be intact and properly fitted. There was also no sign(s) or indication(s) of fluid leak and/or fluid stain found inside the engine compartment.



Photo 18 shows the interior compartment of the Motor Car at the time of my inspection. The various parts and components, trims, carpet, and upholstery inside the interior compartment were all observed to be intact and properly fitted.



Photo 19 shows the rear seats of the Motor Car. All the seats of the Motor Car were secured via seat rails to the floorboard. They were also fitted with a retractable seat belt reel and a pre-tensioner. The seat belts (arrowed) were tested and were able to be fastened into the respective pre-tensions that were fitted on the side of each individual seat.



Photo 20 shows the warning lights for the various electronic safety features appearing on the instrument panel of the Motor Car during its self-test when the engine is cranked, in particular the ABS, SRS, IAS, TPM and DSC lights (arrowed).



Photo 21 shows the respective warning lights no longer illuminated, indicating that there is no fault detected to the ABS, SRS, IAS, TPM and DSC systems of the Motor Car during the self-test. These electronic systems were hence in working condition at the time of my inspection.



Photo 22 shows the Motor Car hoisted up for checks on its undercarriage. There was no sign(s) or indication(s) of fluid leakage and/or fluid stain(s) on the underside of the Motor Car. The undercarriage components of the Motor Car were also all observed to be intact and secured in an appropriate manner.



Photo 23 shows a general view of the control arms and linkages at the rear right wheel of the Motor Car. I did not observe any fluid leak and/or fluid stain on the underside of the Motor Car. All of the Motor Car's undercarriage components were observed to be intact and secured in an appropriate manner.



Photo 24 shows a general view of the control arms and linkages at the rear left wheel of the Motor Car. I did not observe any fluid leak and/or fluid stain on the underside of the Motor Car. All of the Motor Car's undercarriage components were observed to be intact and secured in an appropriate manner.



Photo 25 shows the various undercarriage components at the front left wheel of the Motor Car. The mechanical components, control arms and linkages were all found to be intact and secured in an appropriate manner.



Photo 26 shows the various undercarriage components at the front right wheel of the Motor Car. The mechanical components, control arms and linkages were all found to be intact and secured in an appropriate manner. I also did not observe any fluid leak and/or fluid stain on the underside of the Motor Car.

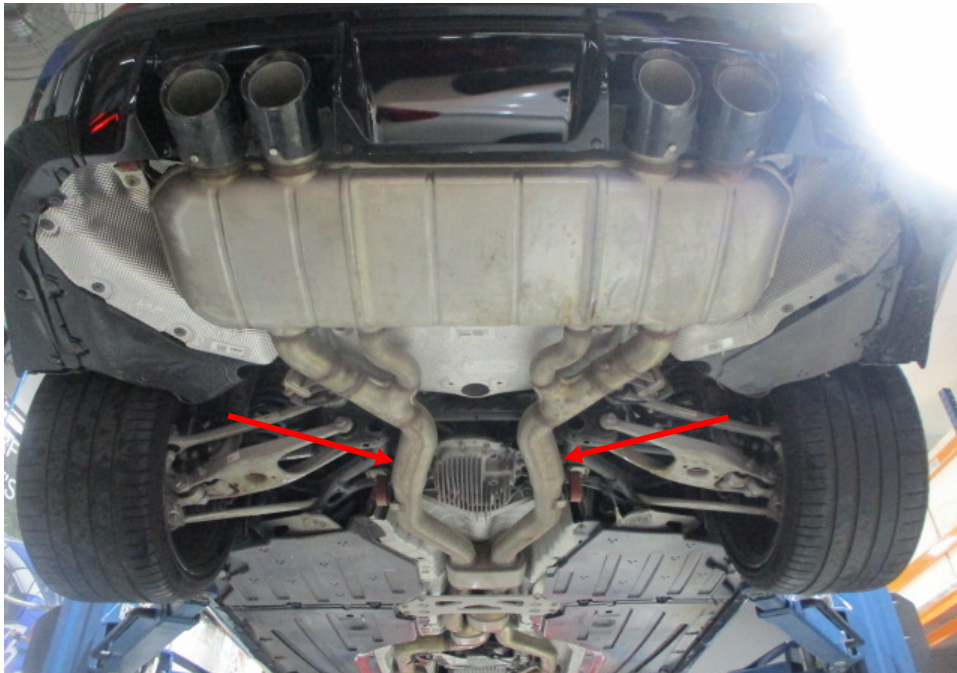


Photo 27 shows the rear section of the Motor Car's exhaust system. My examination of the Motor Car's exhaust system revealed no sign(s) or indication(s) of any cut or weld marks along its exhaust pipes (arrowed), on its rear muffler, on its centre resonator boxes and on its catalytic converters.

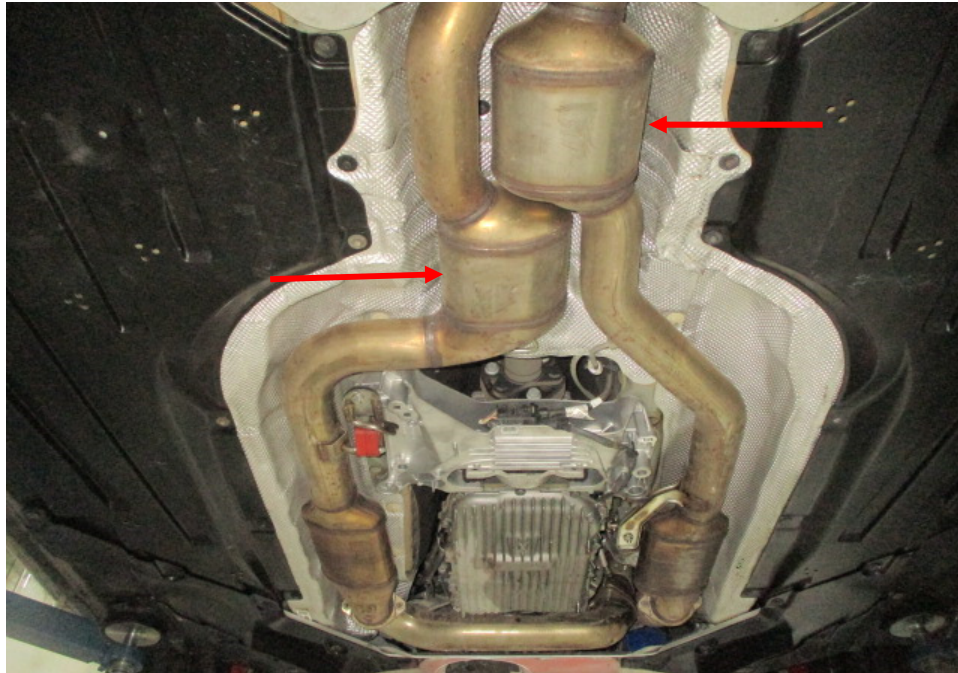


Photo 28 shows the front section of the Motor Car's exhaust system. My examination of the Motor Car's exhaust system revealed no sign(s) or indication(s) of any cut or weld marks along its exhaust pipes, on its rear muffler, on its centre resonator boxes (arrowed) and on its catalytic converters.

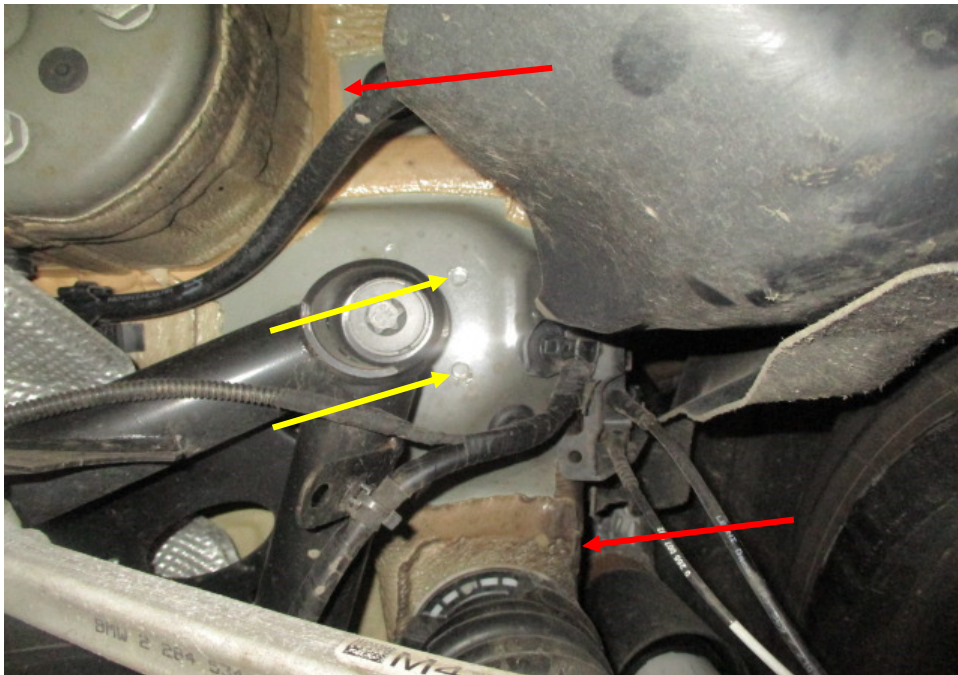


Photo 29 shows the chassis/structural body at the underside rear right of the Motor Car. I did not find any weld marks other than original spot weld marks (yellow arrow) on the chassis/structural body of the Motor Car. The original factory sealant (red arrow) at the joints along the chassis/structural body was untouched, indicating no work was done on the chassis/structural body of the Motor Car and that the chassis/structural body was originally fitted.

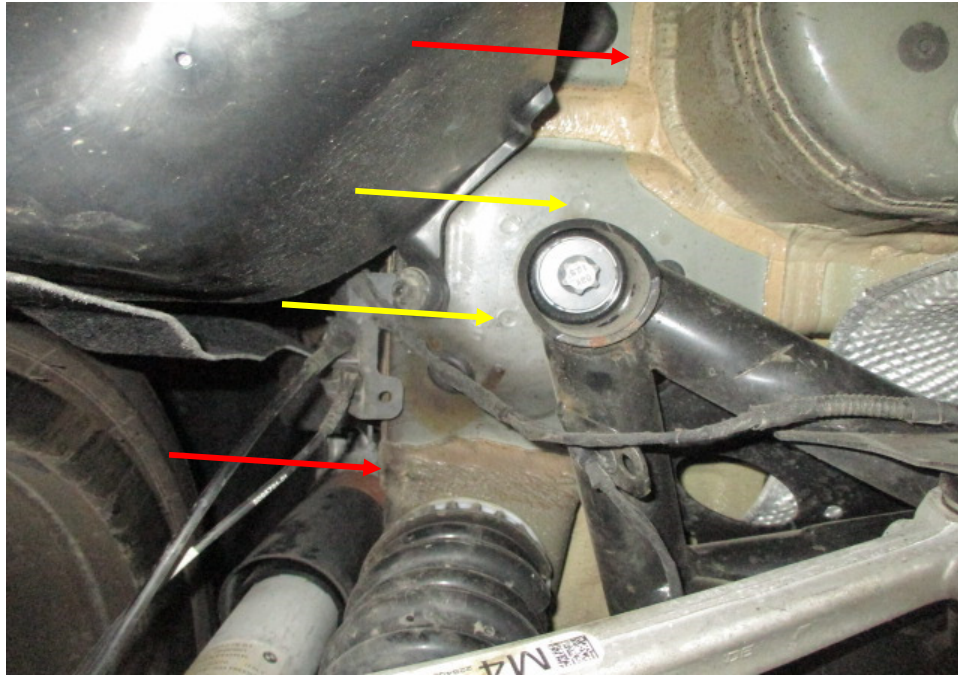


Photo 30 shows the chassis/structural body at the underside rear left of the Motor Car. I did not find any weld marks other than original spot weld marks (yellow arrow) on the chassis/structural body of the Motor Car. The original factory sealant (red arrow) at the joints along the chassis/structural body was untouched, indicating no work was done on the chassis/structural body of the Motor Car and that the chassis/structural body was originally fitted.

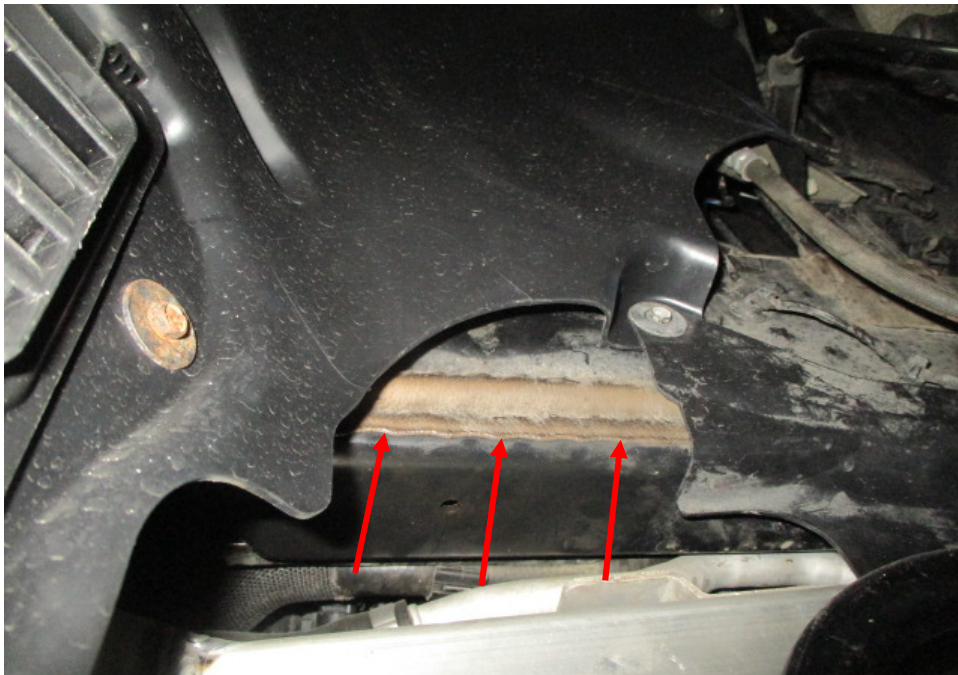


Photo 31 shows the chassis/structural body at the underside front left of the Motor Car. The original factory sealant (arrowed) at the joints along the chassis/structural body was observed to be untouched. In general, I had found no work was carried out on the chassis/structural body of the Motor Car. The chassis/structural body of the Motor Car was originally fitted.



Photo 32 shows the chassis/structural body at the underside front right of the Motor Car. The original factory sealant (arrowed) at the joints along the chassis/structural body was observed to be untouched. In general, I had found no work was carried out on the chassis/structural body of the Motor Car. The chassis/structural body of the Motor Car was originally fitted.



Photo 33 shows the left side rear body panel of the Motor Car. I did not find any weld marks other than original spot weld marks (arrowed) on the left side rear body panel of the Motor Car, which indicates that there was no re-welding works carried out. In general, I had found all the non-detachable body panels of the Motor Car to be originally fitted at the time of my inspection.

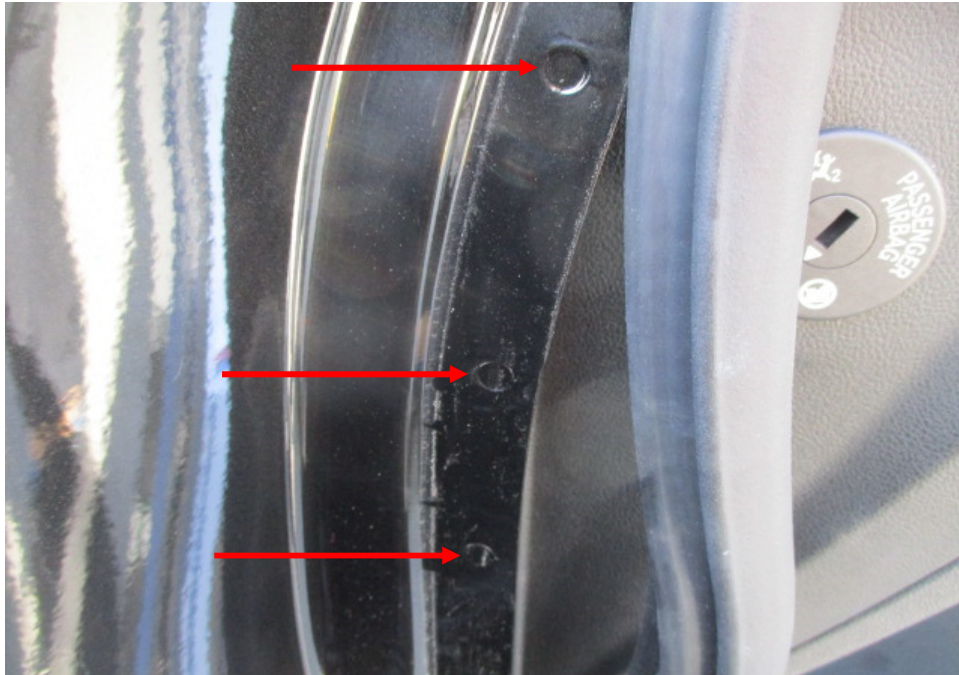


Photo 34 shows the left side “A” pillar of the Motor Car. I did not find any weld marks other than original spot weld marks (arrowed) on the left side “A” pillar of the Motor Car, which indicates that there was no re-welding works carried out. In general, I had found all the non-detachable body panels of the Motor Car to be originally fitted at the time of my inspection.

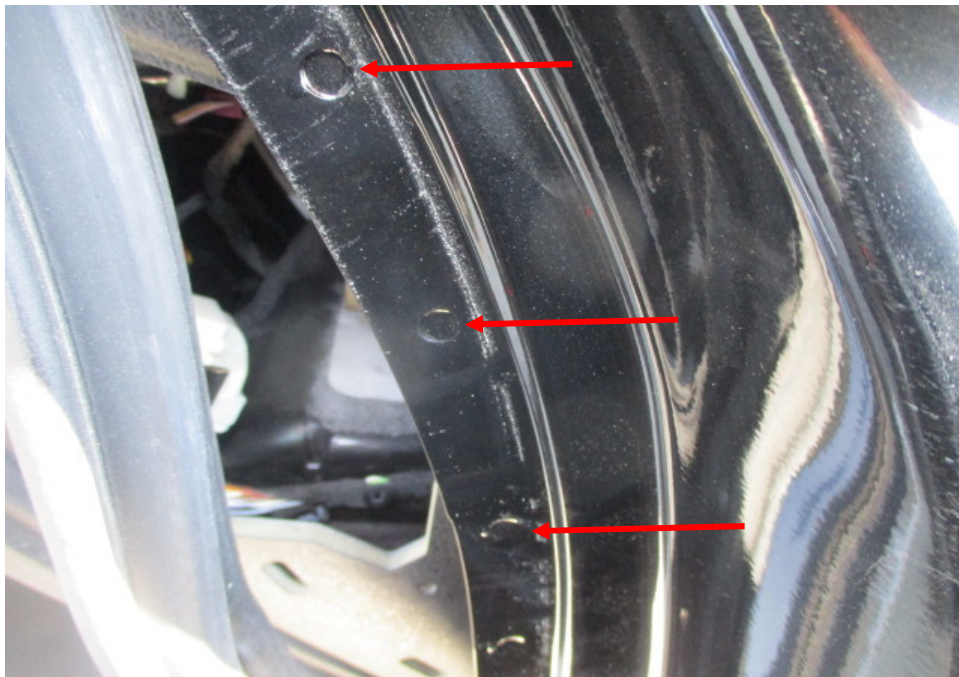


Photo 35 shows the right side “A” pillar of the Motor Car. I did not find any weld marks other than original spot weld marks (arrowed) on the right side “A” pillar of the Motor Car, which indicates that there was no re-welding works carried out. In general, I had found all the non-detachable body panels of the Motor Car to be originally fitted at the time of my inspection.

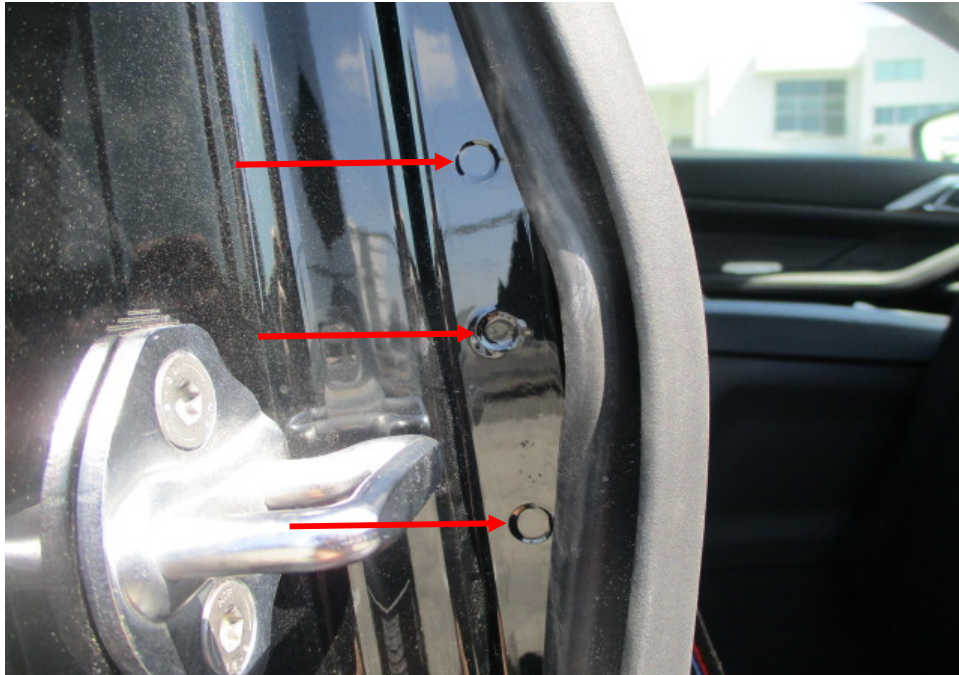


Photo 36 shows the right side rear body panel of the Motor Car. I did not find any weld marks other than original spot weld marks (arrowed) on the right side rear body panel of the Motor Car, which indicates that there was no re-welding works carried out. In general, I had found all the non-detachable body panels of the Motor Car to be originally fitted at the time of my inspection.



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