



Ferrari North America

Technical Information

Date: July 2020
Bulletin #: 2678
Campaign #:
Supersedes: 2484
Section: 10

Subject: Portofino PDI procedures

**This Technical Information Cancels and Replaces
the previous TI 2484 of May 2017**

Please find attached the procedures and list of inspections to be performed at all times before the vehicle is delivered to the customer.

The following procedures must be performed exactly as indicated and in the order given, providing the factory with the information requested.

- WARNING -

This Pre-Delivery Inspection (PDI) procedure **may only be performed with a PC-Tester DEIS updated to **at least** the following software version (or subsequent release):**

- Module 0	Portal and Troubleshooting	49
- Module 1	DEIS Diagnostic software	80
- Module 2	Technical Documentation	12
- Module 3	Tools	7

Check the software number and, if necessary, update your DEIS Tester immediately.

After updating the DEIS, the first vehicle diagnostic cycle must be performed using a cable connection.



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Procedure.

1. Perform visual inspection:
 - **condition of car paintwork** ; repair if necessary (use the specific “**Bodywork defects**” at the end of this document).

 - **condition of transparent film on Tonneau Cover**; polish if necessary (carry out “**Transparent film polishing procedure on Tonneau Cover**”, attached at the end of this document).
2. If disconnected, connect the negative pole of the battery and reset the vehicle auto-adaptive parameters (as described in paragraph **F3.01** of the Workshop Manual).
3. Activate Key-ON state (as described in paragraph **F19.02** of the Workshop Manual), and check which letter is shown on the DOT MATRIX display:
 - If letter “**P**” (Park Lock) is on the display, go to point **5**.
 - If the letter “**N**” (Neutral) is shown is on the display, go to step **4**.
4. Re-enable the Park Lock – Gearbox **lock** device (as described in paragraph **C2.07** of the Workshop Manual).
5. Remove the engine compartment cosmetic shields (as described in paragraph **E3.03** of the Workshop Manual), then perform the “**Battery Certification**” procedure (**TI 2230**) and compile the relative form. If necessary, remove the battery from the vehicle and charge using the “**SLOW charge**” procedure (**TI 2078**).
6. Using the **DEIS** tester, disable the “**Logistic Mode**” function with diagnostic cycle “**150 Complete Logistic Mode**” in the **NBC** ECU (Body Computer Node).
7. Test the keys, luggage compartment opening, and anti-theft system.
8. Check that the daytime running lights work correctly (market dependent)
9. Check that the low beam lights work correctly: also check that the AFS system (adaptive front lights - if applicable) works correctly by turning the steering wheel.
10. Check that the high beam lights work correctly.



Ferrari North America

11. Check that the brake lights work correctly.
12. Check that the turn indicators and license plate lights work correctly.
13. Check that door lights, vehicle interior light and luggage compartment light are working.
14. Check that the button backlights on the steering wheel, driver and passenger side doors, dashboard, center tunnel console and ceiling light unit work correctly and check that the glove compartment light works correctly.
15. Test the horn.
16. Check that the power windows work correctly.
17. Check that the windshield and headlight wipers/washers work correctly.
18. Check that the mechanical or (optional) electrical steering wheel adjustment mechanism works correctly.
19. Check the electric seat functions: check forwards/backwards, backrest rake, height and cushion tilt angle adjustment functions. If applicable, also check the seat memory functions (driver side only) and the lumbar support, pneumatic side bolster, seat cushion length (upper leg support) adjustment functions and the heated seat function.
20. Check that the electric parking brake (EPB) works correctly; test manual and automatic modes.
21. Check function of HI-FI / navigation system (see point 36); **set the relative roadside assistance numbers for your market.**
22. Check coolant level and top up if necessary.
23. Check brake fluid level and top up if necessary.
24. Check headlight washer/windscreen washer fluid level and top up if necessary.
25. Check tire pressure / **TPMS** system calibration pressure.



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26. Check the tightness of the wheel studs with a torque wrench (as described in paragraph D2.01 of the Workshop Manual).
27. Check that the tow hook can be fitted correctly.

Start the engine (as described in paragraph F19.02 of the Workshop Manual), and perform the following:

28. Perform two complete roof open/close cycles.
29. Check retractable hard top hydraulic system fluid level (**only if malfunctioning** – see point 28).
30. Perform static function test of AC system.
31. Test functions of electric rear view mirrors.
32. Check that the internal electrochromic mirror and the electrochromic RH and LH rear view mirrors (if installed) work correctly.
33. Check function of parking sensors and of front /rear/ surround view cameras (if installed).
34. Using the DEIS tester, perform the “Cancel all DTCs from all ECUs” procedure from the “Vehicle functions” menu.

Test drive.

35. Check functions of navigation system; set route before starting.
36. Test drive the vehicle (approx. 20 minutes).
37. Check that Stop&Start system works correctly.
38. While driving, check that the “Suspension damping decoupling” button and “Manettino” dial on the steering wheel work correctly.



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39. While driving, check that the **ADAS** driver assistance systems (if applicable) work correctly:
 - **Adaptive Cruise Control;**
 - **Blind Spot Detection;**
 - **Rear Cross Traffic Alert;**
 - **Traffic Sign Recognition;**
 - **Lane Departure Warning.**
40. While driving, check that the air conditioning and heating system works correctly (dynamic test).
41. **For USA/CND Version only.** Take the vehicle into a location with a clear view of the sky and activate Sirius XM as per FNA 165.

Return to workshop.

42. Check the engine oil level (**engine warm and switched off**), and top up if necessary (as described in paragraph **B8.02** of the Workshop Manual).
43. With the **DEIS** tester, check that the VIN number read with the tester matches the number indicated on the VIN plate on the bottom left of the windshield and the number punched onto the chassis of the vehicle. The punched VIN number on the chassis is visible on the floorpan via an opening in the passenger side carpet. For more information on vehicle identification numbers, see section A1.02 of the workshop manual; if necessary, the VIN number read with the tester may be modified using the “**100 VIN Writing**” diagnostic function (password-protected) on the **NCM** ECU (engine control node).
44. Check and cancel the errors on all ECUs.
45. Enter the warranty start date (Check that the language setting on the TFT display is correct).



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46. Disconnect the battery , wait **30 minutes** and reconnect (as described in paragraph **F3.01** of the Workshop Manual). Restore the self-adaptive vehicle parameters (as described in paragraph **F3.01** of the Workshop Manual).
47. Perform the “**SCAN OUT**” procedure from the “**Vehicle functions**” menu with the **DEIS** tester **before carrying out any further diagnostic operations**.
48. Remove the aerodynamic undertray from the vehicle (as described in paragraph **E3.01** of the Workshop Manual).
49. Visually check for coolant and/or oil leaks in the underbody area and engine compartment.
50. Visually inspect engine compartment lines.
51. Visually inspect the engine compartment wiring harnesses.
52. Visually inspect underbody lines.
53. Visually inspect exhaust pipe.
54. Visually inspect fuel tank.
55. Visually check correct assembly of: Suspension units, steering box and rear axle shaft flanges.
56. Visually check correct assembly of: vehicle ground point, engine ground point on chassis and gearbox ground on chassis.
57. Visually inspect condition of brake pads and discs (**DO NOT** remove wheels).
58. Check condition of tires and wheels.
59. Refit the complete aerodynamic undertray and cosmetic engine compartment shields (as described in paragraph **E3.01** and **E3.03** of the Workshop Manual).
60. Check that the door and lid locks work correctly; adjust if necessary.
61. Test function of fuel filler flap emergency release; adjust if necessary.



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62. Visually inspect condition of leather upholstery; repair if necessary.
63. Thoroughly clean interior and wash car.
64. Ensure that the vehicle is delivered complete with the following:
 - Identification and Type Approval plates;
 - License plate holder;
 - Toolkit;
 - Battery conditioner kit;
 - on-board documentation (Owner's Manual, Quick Reference Guide, Warranty Booklet, Safety Device Booklet and Battery Conditioner Quick Guide card), second vehicle key and Code Card, and any material related to options.
65. Confirm operation of the provided battery maintainer.



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- IMPORTANT -

Confirm that the operations listed above have been carried out correctly with the “Pre-Delivery Inspection - PDI” form (enclosed on pages 15 and 16), compiled in full and signed by the Service Manager of your Authorized Ferrari Dealer.

After completing an inspection, open an ROL (Red On Line) if the vehicle is in “New Model/Special Series” status (ref. TI 2667) , indicating “**PDI Form Info**” as the cause, and attach the completed “PDI Pre-Delivery Inspection” form, together with the parameter and error printout files requested in points 5, 34 and 47 , and the “Battery state certification” form (TI 2230). The procedure for “Testing zero load electric absorption” is given in paragraph F3.11 of the Workshop Manual).

You will also be required to open separate individual ROL with the description “**PDI Fault Info**” for each fault encountered during the inspection procedure, indicating the respective operation number as cited in the “PDI Pre-Delivery Inspection” form; Attach all necessary documentation, including photographs if needed.



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Transparent film polishing procedure on Tonneau Cover – PDI

Please find enclosed the correct polishing procedure for the transparent film applied to protect the Tonneau Cover paintwork, which **must only be performed if a fault is noted** - (e.g. red arrows - Fig 1), during the **Pre-Delivery Inspection - PDI** inspection.



9



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Procedure.

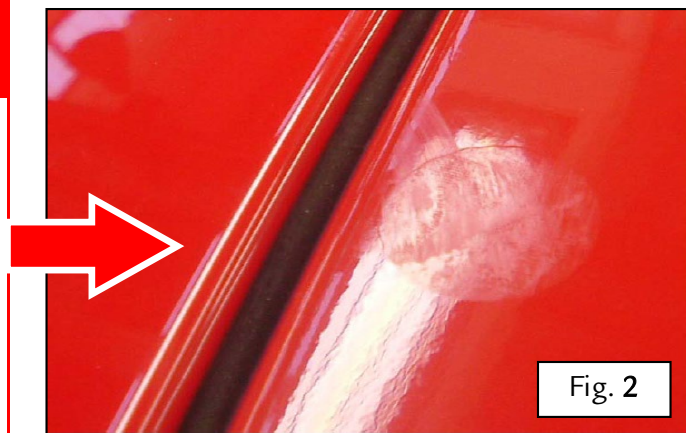
Observe the following procedure exactly as described to carry out the operation:

PHASE 1 – CLEANING

- WARNING -

DO NOT use any type of **SOLVENT**
– this may irreparably damage the
transparent film

- Fig. 2 -



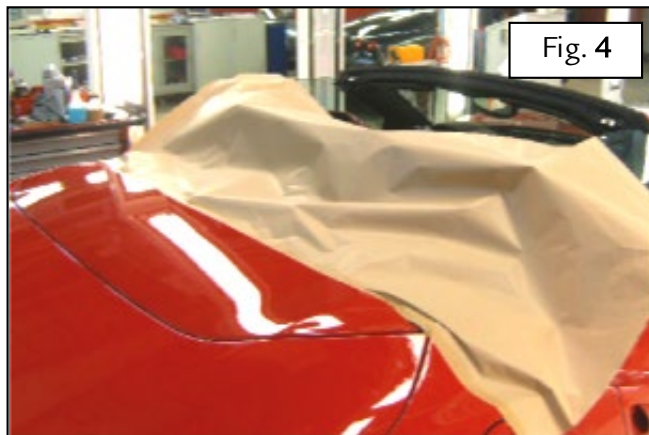
- › Using new micro-fiber cloths only, carefully clean the Tonneau Cover with a water based detergent – (Fig. 3).





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- › Adequately cover the rear area of the passenger compartment, in order to avoid staining during the subsequent polishing phase – (Fig. 4).



PHASE 2 – POLISHING

- WARNING -

The application of products with excessive pressure on the polishing tool causes the **overheating of the film**, which could be irreparably damaged.

- Fig. 5 -



- › Using a compressed air polisher with “DOME” type pad, polish the concerned area with microfine white abrasive paste – highly recommended: VISOMAX - Prometheus PS 200V8.

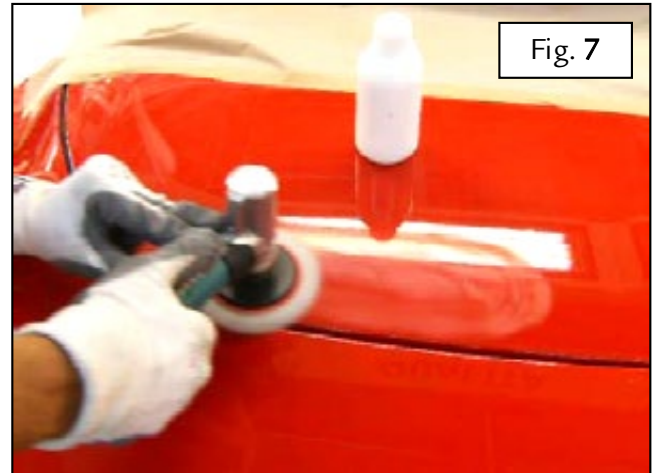
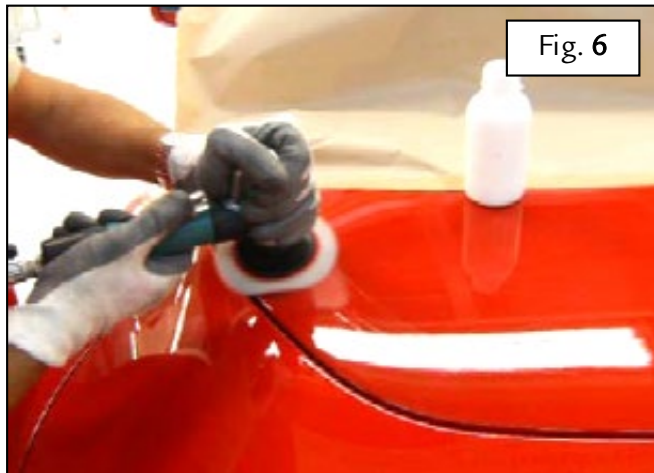


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- WARNING -

Evenly distribute the abrasive paste on the DOME pad, and with caution, polish the area taking care **NOT** to exert excessive pressure on the polisher – (Fig. 6 and 7).

- perform quick passes without focusing on one particular zone -



- › Thoroughly clean the concerned area with a clean microfiber cloth without the use of detergents.

Repeat the polishing process to remove any residual marks paying the utmost attention.

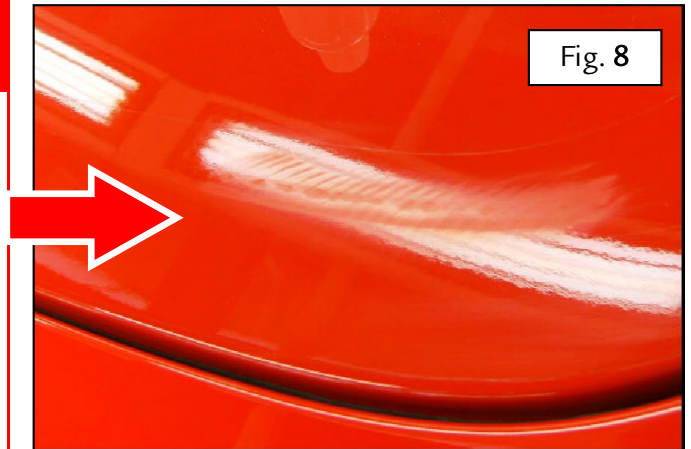


PHASE 3 – BUFFING

- WARNING -

The application of products with excessive pressure on the polishing tool causes the **overheating of the film**, which could be irreparably damaged.

- Fig. 8 -



- › Fit a “SOFT SPONGE” type pad on the compressed air polisher, then apply polish on the concerned area – highly recommended: VISOMAX - Prometheus PS 250 grey Polish.

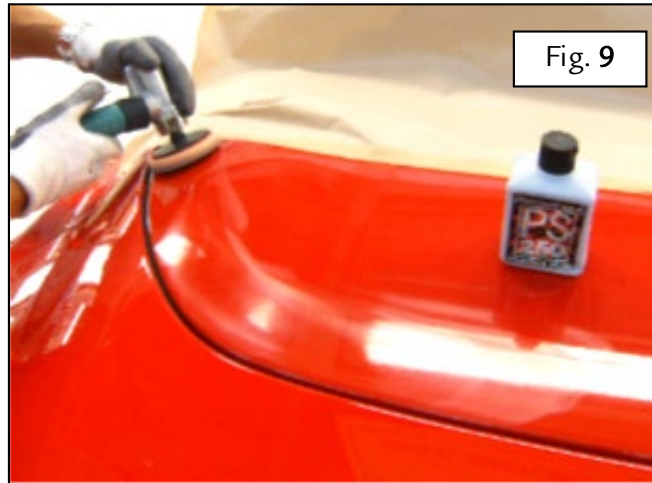
- WARNING -

Evenly distribute the polish on the SOFT SPONGE pad, then with due caution, pass over the affected area taking care **NOT** to apply excessive pressure on the polisher – Fig. 9.

- Perform quick passes without focusing on one particular zone -



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- › Thoroughly clean any halos with a clean microfiber cloth, specific for polish products.

Thank you for your co-operation.



Pre-Delivery Inspection - PDI form

Model	Updated on
<i>Portofino</i>	May 2020

Chassis number: _____

Dossier creation date: _____

Job order no.: _____

Notes: _____

Description of inspection / operation:	Performed OK	Performed NOT OK	R.O.L. N° (if NOT OK)
1. - Condition of vehicle paintwork/film on Tonneau Cover.	<input type="checkbox"/>	<input type="checkbox"/>	
2. - Connect battery and reset vehicle parameters.	<input type="checkbox"/>	<input type="checkbox"/>	
3. - Check Park Lock device.	<input type="checkbox"/>	<input type="checkbox"/>	
4. - Reset Park Lock device.	<input type="checkbox"/>	<input type="checkbox"/>	
5. - "Battery Certification" procedure.	<input type="checkbox"/>	<input type="checkbox"/>	
6. - Disable "Logistic Mode".	<input type="checkbox"/>	<input type="checkbox"/>	
7. - Test the keys and the anti-theft system.	<input type="checkbox"/>	<input type="checkbox"/>	
8. - Daytime running lights.	<input type="checkbox"/>	<input type="checkbox"/>	
9. - Low beam lights and AHS (if applicable).	<input type="checkbox"/>	<input type="checkbox"/>	
10. - High beams.	<input type="checkbox"/>	<input type="checkbox"/>	
11. - Stop lights.	<input type="checkbox"/>	<input type="checkbox"/>	
12. - Turn indicators and number plate lights.	<input type="checkbox"/>	<input type="checkbox"/>	
13. - Vehicle interior lights, luggage compartment light and glove box light.	<input type="checkbox"/>	<input type="checkbox"/>	
14. - Function of buttons and backlighting.	<input type="checkbox"/>	<input type="checkbox"/>	
15. - Horn.	<input type="checkbox"/>	<input type="checkbox"/>	
16. - Power windows.	<input type="checkbox"/>	<input type="checkbox"/>	
17. - Windscreen wipers and headlight washers.	<input type="checkbox"/>	<input type="checkbox"/>	
18. - Mechanical or electrical (if applicable) steering wheel adjustment functions.	<input type="checkbox"/>	<input type="checkbox"/>	
19. - Check seat functions.	<input type="checkbox"/>	<input type="checkbox"/>	
20. - Electric parking brake (EPB); manual/auto.	<input type="checkbox"/>	<input type="checkbox"/>	
21. - HI-FI system / navigation system (see point 35).	<input type="checkbox"/>	<input type="checkbox"/>	
22. - Coolant level.	<input type="checkbox"/>	<input type="checkbox"/>	
23. - Brake fluid level.	<input type="checkbox"/>	<input type="checkbox"/>	
24. - Windscreen washer/headlight washer fluid level.	<input type="checkbox"/>	<input type="checkbox"/>	
25. - Tyre pressure / TPMS system calibration pressure.	<input type="checkbox"/>	<input type="checkbox"/>	
26. - Tightness of wheel studs.	<input type="checkbox"/>	<input type="checkbox"/>	
27. - Tow hook.	<input type="checkbox"/>	<input type="checkbox"/>	
28. - * Complete roof open/close cycles. (2).	<input type="checkbox"/>	<input type="checkbox"/>	
29. - ** Retractable hard top hydraulic system fluid level.	<input type="checkbox"/>	<input type="checkbox"/>	
30. - * Air conditioning and heating system (static test).	<input type="checkbox"/>	<input type="checkbox"/>	
31. - * Electric rear-view mirrors.	<input type="checkbox"/>	<input type="checkbox"/>	
32. - * Electrochromic rear view mirrors (if applicable).	<input type="checkbox"/>	<input type="checkbox"/>	
33. - * Parking sensors, front/rear cameras and Surround View.	<input type="checkbox"/>	<input type="checkbox"/>	
34. - Cancel all DTCs from all ECUs.	<input type="checkbox"/>	<input type="checkbox"/>	
35. - Navigation system: Set route.	<input type="checkbox"/>	<input type="checkbox"/>	
36. - Test drive (20 min.).	<input type="checkbox"/>	<input type="checkbox"/>	

(*) With engine running - (*) Only if malfunctioning - see point 28.**



Pre-Delivery Inspection - PDI form

Model	Updated on
<i>Portofino</i>	May 2020

	Performed OK	Performed NOTOK	R.O.L. N° (if NOTOK)
37. - Stop&Start (test functions).	<input type="checkbox"/>	<input type="checkbox"/>	
38. - Suspension damping decouple button and "Manettino".	<input type="checkbox"/>	<input type="checkbox"/>	
39. - Check ADAS systems (if applicable).	<input type="checkbox"/>	<input type="checkbox"/>	
40. - Air conditioning and heating system (dynamic test).	<input type="checkbox"/>	<input type="checkbox"/>	
41. - For USA/ CND ONLY_ SDARS preview Channel Test.	<input type="checkbox"/>	<input type="checkbox"/>	
42. - Engine oil level (engine warm - off).	<input type="checkbox"/>	<input type="checkbox"/>	
43. - Check VIN on NCM, on windscreen VIN plate and on chassis.	<input type="checkbox"/>	<input type="checkbox"/>	
44. - Delete ECU errors.	<input type="checkbox"/>	<input type="checkbox"/>	
45. - Enter warranty start date.	<input type="checkbox"/>	<input type="checkbox"/>	
46. - Disconnect the battery and reset self-adaptive parameters.	<input type="checkbox"/>	<input type="checkbox"/>	
47. - Perform SCAN OUT procedure.	<input type="checkbox"/>	<input type="checkbox"/>	
48. - Remove complete aerodynamic undertray.	<input type="checkbox"/>	<input type="checkbox"/>	
49. - Check for water and/or oil leaks in vehicle underbody area.	<input type="checkbox"/>	<input type="checkbox"/>	
50. - Engine compartment lines.	<input type="checkbox"/>	<input type="checkbox"/>	
51. - Engine compartment wiring.	<input type="checkbox"/>	<input type="checkbox"/>	
52. - Underbody lines.	<input type="checkbox"/>	<input type="checkbox"/>	
53. - Exhaust System.	<input type="checkbox"/>	<input type="checkbox"/>	
54. - Fuel tank.	<input type="checkbox"/>	<input type="checkbox"/>	
55. - Visual inspection: Suspension components, etc.	<input type="checkbox"/>	<input type="checkbox"/>	
56. - Visual inspection of earth connections: vehicle/engine and gearbox earth on chassis.	<input type="checkbox"/>	<input type="checkbox"/>	
57. - Condition of brake pads and discs (DO NOT remove wheels).	<input type="checkbox"/>	<input type="checkbox"/>	
58. - Condition of tyres and wheels.	<input type="checkbox"/>	<input type="checkbox"/>	
59. - Refit flat undertray and the cosmetic engine compartment shields.	<input type="checkbox"/>	<input type="checkbox"/>	
60. - Door and lid locks.	<input type="checkbox"/>	<input type="checkbox"/>	
61. - Petrol filler flap emergency opening.	<input type="checkbox"/>	<input type="checkbox"/>	
62. - Condition of vehicle's leather upholstery.	<input type="checkbox"/>	<input type="checkbox"/>	
63. - Clean interior and wash car.	<input type="checkbox"/>	<input type="checkbox"/>	
64. - Provided with vehicle: Toolkit, etc.	<input type="checkbox"/>	<input type="checkbox"/>	
65. - Functional test of battery conditioner	<input type="checkbox"/>	<input type="checkbox"/>	

Job performed by (Dealer):

Technical Manager:

First name _____
(Print)

Last name _____
(Print)

Company stamp

Full signature

Vehicle delivery date: _____

