Model: Abarth 124 Spider

Key

eLEARN: Information available upon purchase of a subscription to the **On-line technical documentation** with **Manual** and **Abarth** filters, for a 1 hour, 1 day, 1 month or 1 year duration.

eLUM: information available free of charge on the electronic version of the Use and Maintenance Handbook. The section where information is found is indicated.

N/A: item not applicable for the model.

ODX: Information available through ODX ISO22900 **for test instrument manufacturers** to use during tests. The provision is subject to a **supplier contract**, as a result of negotiation, as provided by regulation R858/2018. The instructions for use of the electronic interface will be provided by the instrument manufacturers.

Inspection information

1. Braking system

Item	Method	Necessary information	Available
			information
1.6. Anti-lock braking system	Visual inspection and checking of the alarm device and/or using the	Instructions for using the vehicle's	ODX 357 ABS Part2
(ABS)	vehicle's electronic interface.	electronic interface	
1.7. Electronic braking	Visual inspection and checking of the alarm device and/or using the	Instructions for using the vehicle's	ODX 357 ABS Part2
system (EBS)	vehicle's electronic interface.	electronic interface	

1.1. Mechanical condition and operation

Item	Method	Necessary information	Available information
1.1.6. Parking brake, control lever, locking device,	Visual exam of components while the braking	General description of the electronic	N/A
electronic parking brake	system is activated.	parking brake	
1.1.13. Brake seals	Visual inspection.	Method for evaluating wear and limits	Data gathering in
		of wear	progress
		See UN R13 5.2.1.11.2 e 5.2.2.8.2.	p. og. occ
1.1.14. Brake drums, brake discs	Visual inspection.	Method for evaluating wear and limits	Data gathering in
		of wear	progress
		See UN R13 5.2.1.11.2 e 5.2.2.8.2.	1 -0

1.2. Service brake performance and effectiveness

Item	Method	Necessary information	Available
			information
1.2.1.	During inspection on a brake test bench or, if impossible, during a road test,	Specific requirements for inspecting a vehicle on a	Data gathering in
Performance	pump the brakes progressively up to maximum effort.	brake test bench (test method)	progress

1.3. Handbrake performance and effectiveness (if based on a separate system)

Item	Method	Necessary information	Available
			information
1.3.1.	If the secondary brake system is separate from the service brake, use	General description of the system, including the circuits (clear	Data gathering in
Performance	the method specified in point 1.2.1.	definition of secondary brake)	progress

1.4. Parking brake performance and effectiveness

Item	Method	Necessary information	Available
			information
1.4.1.	Activate the brake during a brake test	General description of the system, including the recommended test procedure; if a dynamic	Data gathering in
Performance	bench inspection.	test is not possible (on a brake test bench or a road test)	progress

2. Steering

Item	Method	Necessary information	Available
			information
2.6. Electronic power	Visual exam and inspection of coherence between the steering wheel angle and the wheel	Instructions for using the vehicle's	ODX SKY EPAS
steering (EPS)	angle when the engine is turned on/off and/or the vehicle electronic interface is in use.	electronic interface	Part2

4. Lights, reflectors and electric circuit

Item	Method	Necessary information	Available information
4.11. Electric circuit	Visual exam, with the vehicle over an inspection pit or on a lift, also inside the engine compartment if applicable.	Identifying the wires (for example colour, diagramming, transverse section, dimensions) insulation inspection (high voltage)	elearn: Model 348-124 Spider; 1.4 Turbo Multiair; Electrical system For wire identification: 2 – Wiring For specific information: 3 – Connectors; analysing the specific connectors linked to the wiring identified earlier
		Position of the high voltage electrical systems	N/A
4.13. Battery(ies)	Visual inspection.	Battery position(s)	eLEARN: Model 348-124 Spider; 1.4 Turbo Multiair; Electrical system; 1 – Electrical functions; E10 – Power supply and earths; E1010 – Power supply; Component location; A010
		Number of batteries	1

Item	Method	Necessary information	Available information
		Special arrangement for high voltage	N/A
		batteries	
		Vehicle specific information (VIN) relating to	No
		the battery switch [Yes/No]	
		Vehicle specific information (VIN) relating to	No
		the battery fuse [Yes/No]	
		Vehicle specific information (VIN) relating to	No
		the battery ventilation [Yes/No]	
		Vehicle specific information (VIN) relating to	No
		the operating principle	

4.1. Headlights

Item	Method	Necessary information	Available information
4.1.1. Status and function	Visual exam and operating verification.	Light source category []	eLUM: Abarth 124 Spider; Owner Handbook; In case of emergency; Replacing a bulb; Exterior light
4.1.2. Alignment	Determining the horizontal orientation for each headlight in low beam position by using a headlight orientation device or the vehicle's electronic interface.	Alignment of the low beam set [percentage] for the vertical tilt and the direction	With driver only: Driver -0.98%; Passenger -0.98% With passengers only: Driver -1.18%; Passenger -1.10% With passengers and full load: Driver -1.17%; Passenger -1.10% With driver and full load: Driver -1.03%; Passenger -0.95%
		Instructions for using the vehicle's electronic interface	ODX SKY BCM Part2 SKY AFLS Part2 for the automatic version
		Determining the horizontal orientation using the vehicle's electronic interface information relative to the high beam set to allow the alignment value	ODX SKY BCM Part2 SKY AFLS Part2 for the automatic version
4.1.3. Ignition	Visual inspection and operation verification or using the vehicle's electronic interface.	Instructions for using the vehicle's electronic interface	ODX SKY BCM Part2 SKY AFLS Part2 for the automatic version
4.1.5 Devices to	Visual inspection and operation verification, if	Transmission operating modes [manual/automatic]	Both versions exist
adjust tilt (if mandatory)	possible, or using the vehicle's electronic interface.	Instructions for using the vehicle's electronic interface	ODX SKY BCM Part2

Item	Method	Necessary information	Available information
			SKY AFLS Part2 for the automatic
			version
4.1.6 Headlight	Visual exam and operating verification if possible.	Mandatory device [Yes/No]	No
wiper device (if			
mandatory)			

4.2. Front and rear position lights, side lights, clearance lights, daytime running lights

Item	Method	Necessary information	Available information
4.2.1. Status and function	Visual exam and operating verification.	Daytime running light installation [Yes/No]	Yes

4.3. Brake lights

Item	Method	Necessary information	Available
			information
4.3.2.	Visual inspection and operation verification or using the vehicle's electronic	Emergency stop signal installation [Yes/No]	No
Ignition	interface.	Instructions for using the vehicle's electronic	N/A
		interface	·

5. Axles, wheels, tyres and suspensions

5.1. Axles

Item	Method	Necessary information	Available information
5.1.1. Axles	Visual exam, with vehicle above an inspection pit or on a lift. Wheel play detectors can be used and are recommended for vehicles with a maximum mass exceeding 3.5 tonnes	General description, number of axles	2 axle vehicle

5.2. Wheels and tyres

Item	Method	Necessary information	Available information
5.2.2.	Visual exam of both sides of each wheel, with vehicle above an	Wheel	eLUM: Abarth 124 Spider; Owner Handbook;
Wheels	inspection pit or on a lift.	measurement/dimensions/misalignment	Technical specifications; Wheel and tire
			specficiations; Rims and tires provided
			Data gathering in progress for misalignment
5.2.3.	Visual exam of the entire tyre, turning the wheel off the ground	Dimensions, load capacity, tyre speed	eLUM: Abarth 124 Spider; Owner Handbook;
Tyres	with the vehicle above an inspection pit, on a lift, or moving the	category	Technical specifications; Wheel and tire
	vehicle forwards and backwards over an inspection pit.		specficiations; Rims and tires provided
		Tyre pressure check system [No/Yes]	Yes, indirect
		direct/indirect	

6. Chassis and components attached to the chassis

6.1. Chassis or body and components attached to the chassis

Item	Method	Necessary information	Available information
6.1.3. Fuel tanks and pipes (including heating fuel tanks and pipes)	Visual exam, with the vehicle above an inspection pit or on a lift and, for LPG/CNG/LNG systems, use leak detection devices.	General description and position, also the shielding	Metal tank in lower rear position, in front of the rear axle
6.1.9. Engine performance (X1)	Visual exam and/or using the vehicle's electronic	Valid configuration of the engine control unit	Data gathering in progress
		Instructions for using the vehicle's electronic interface	Data gathering in progress
		Instructions for reading the calibration identification	Data gathering in progress
		Information on identifying the calibration during validity	Data gathering in progress
		Software identification number, including the inspection totals or similar data about condition	Data gathering in progress

6.2. Passenger cabin and body

Item	Method	Necessary information	Available information
6.2.6. Other seats	Visual inspection.	Total number of seats (excluding driver's seat)	1 front
		Number of reverse seats	0

7. Other equipment

Item	Method	Necessary information	Available
			information
7.11. Odometer if available (X1)	Visual exam and/or using the electronic	Instructions for using the vehicle's electronic	ODX SKY HEC Part2
	interface.	interface	
7.12 Electronic stability control (ESC) if	Visual exam and/or using the electronic	Instructions for using the vehicle's electronic	ODX SKY DSC Part2
installed/required	interface.	interface	

7.1. Safety belts/buckles and restraining systems (concerning the L categories: L6/L7)

Item	Method	Necessary information	Available information
7.1.1. Seat belt/buckle	Visual inspection.	Number and position of seat	2 belts with three external anchor points on the car chassis and internal
installation security		belt anchor points	anchor point on the seat structure
7.1.2 Seat belt/buckle	Visual exam and operating	Seat belt category for each	All the belts have energy absorption devices and retractors
installation status	verification.	seating position	, , ,
7.1.3 Seat belt load	Visual exam and/or using the	Instructions for using the	ODX SKY RCM Part2
limit	electronic interface.	vehicle's electronic interface	

Item	Method	Necessary information	Available information
7.1.4. Seat belts pre- tensioners	Visual exam and/or using the electronic interface.	Instructions for using the vehicle's electronic interface	ODX SKY RCM Part2
7.1.5. Airbag	Visual exam and/or using the electronic interface.	Airbag number and positions	eLEARN: Model 348-124 Spider; 1.4 Turbo Multiair; Electrical system; 1 – Electrical functions; E70 – Vehicle electronic systems; E7030 – Airbags; Component location
		Instructions for using the vehicle's electronic interface	ODX SKY RCM Part2
7.1.6. SRS system	Visual exam of breakdown indicator and/or using the electronic interface	Instructions for using the vehicle's electronic interface	ODX SKY RCM Part2

8. Harmful effects

8.1. Noise

Item	Method	Necessary information	Available information
8.1.1 Noise protection system	Subjective evaluation (unless the inspector considers the noise level to be within the legal limits, in which case a sound level meter can be used to measure the noise coming from the stationary vehicle).	Stationary vehicle sound levels [dB(A) at 1/min]	82 db(A) at 2.850 rpm

8.2. Exhaust emissions

8.2.1. Mechanical condition and operation

Item	Method	Necessary	information	Available information
8.2.1.1. Exhaust emission control equipment	Visual inspection.	control syst	cription of the exhaust emission em Ilate filter installed [Yes/No]	eLEARN: Model 348-124 Spider; 1.4 Turbo Multiair; Manual; Engine; Descriptions; 10 - General Anti-particulate filter not installed
8.2.1.2. Gaseous emissions	— For vehicles up to Euro 5 and Euro V ² emission class: measurement with an exhaust gas analyser in compliance with the requisites ² or an onboard diagnosis (OBD) system. The exhaust pipe control is the standard method for evaluating the exhaust emissions. Based on an equivalence evaluation and taking the pertinent legislation in approval matters into account, the member States can authorise using the OBD system in compliance	Gaseous en manufactur	nission levels if provided by er	See the averages calculated with deterioration factors: CO 454.1 mg/km THC 42.9 mg/km NMHC 36.0 mg/km NO _x 36.0 mg/km
	with the manufacturer's recommendations and other requisites. — For vehicles starting from Euro 6 and Euro VI³ emission class:	Specific info	ormation per vehicle (VIN) or	Engine code 55253268
	measurement with an exhaust gas analyser in compliance with the requisites or reading the OBD system in compliance with the manufacturer's recommendations and other requisites. ² .	To inspect the	Engine preconditioning requirements, such as. min. oil temp/water temp. [°C] and	The engine rotation scheme is at least maintained by the engine control

Item	Method	Necessary	, information	Available information
	Measurement not applicable to two-stroke engines.	exhaust pipe:	procedures for putting the engine into type II test mode	unit: measurement of the CO content in Type I test conditions
			Results of the type II emission to	est
			CO with engine at idle [%]	0.00%
			CO at minimum acceleration [%]	0.01%
			Lambda []	1.016
		Using the OBD system:	Connector and communication protocol (standard, power voltage, position)	Standard and power voltage: data gathering in progress Position on eLEARN: Model 348-124 Spider; 1.4 Turbo Multiair; Electrical system; 1 – Electrical functions; E80 – Multiple diagnosis connector; E8010 – Multiple diagnosis connector; Component location; R010
			List of DTC (classes A, B1 and	N/A
			B2 presently only for heavy	
			vehicles)	

8.2.2. Compression ignition engine emissions

Item	Method	Necessary	information	Available information
8.2.2.1. Exhaust emission control equipment	Visual inspection.	Overall description of the exhaust emission control system. For example DeNOx system [Yes/No] Anti-particulate filter installed [Yes/No]		N/A
		EGR positio	n	N/A
		Specific info	rmation [vehicle (VIN)] per engine	N/A
8.2.2.2. Opacity These requirements do not apply	 For vehicles up to Euro 5 and Euro V² emission class: exhaust gas opacity measurement in free acceleration (idling, from idle to 	Information specific to the vehicle engine type		N/A
to vehicles registered or put into circulation before 1 January 1980	maximum speed) with gear in neutral and clutch engaged or from the OBD system reading. The exhaust pipe control is the standard method for evaluating the exhaust emissions. Based on an equivalence evaluation, the member States can authorise using the OBD system in compliance with the manufacturer's recommendations and other requisites.	To inspect the exhaust pipe:	Engine preconditioning requirements, such as. min. oil temp/water temp. [°C] and procedures for putting the engine into type II test mode	N/A

Item	Method	Necessary	information	Available information
	 For vehicles starting from Euro 6 and Euro VI³ emission class: exhaust gas opacity measurement in free acceleration (idling, from idle to maximum speed) with gear in neutral and clutch engaged or from the OBD system reading, in compliance with the manufacturer's recommendations 		K value recorded on the manufacturer's plate affixed to the vehicle (result of the type II emission test)	N/A
	and other requisites ² . Vehicle preconditions:		Maximum engine speed in type II tests	N/A
	1. the vehicles can be inspected without preconditioning, but for safety reasons, the engine must be both hot and in a satisfactory mechanical		Engine speed limiter for empty acceleration [Yes/No]	N/A
	condition. 2. Requirements in preconditioning matters: i) the engine must have reached operating temperature, for example, the		Description for deactivating the engine speed limiter to run a test in free acceleration	N/A
	engine oil temperature, taken with a probe in the oil dipstick housing, must be at least 80°C, or in correspondence to the normal operating temperature if it is lower, or still at the engine block temperature,	Using the OBD system:	Authorised DTC with OBD scanning {codes for the NOx 3000 group for light vehicles}	N/A
	measured by the level of infrared radiation, it must be at least the same. If this type of measurement is not possible because of the vehicle configuration, the normal engine operating temperature can be obtained		Connector and communication protocol (standard, power voltage, position)	N/A
	in another way, for example by activating the engine cooling fan; ii) the exhaust system must be bled during at least three free acceleration cycles or with an equivalent method. Test procedure:		List of DTC (classes A, B1 and B2 presently only for heavy vehicles)	N/A
	1. the engine, any turbochargers, must be at least at minimum before starting every free acceleration cycle. In the case of heavy, diesel engine vehicles, that implicates an interval of at least ten seconds after releasing the accelerator;			
	2. to start each free acceleration cycle, the accelerator pedal must be pressed to the floor, fast and regularly (meaning in less than one second), but not abruptly, so you get the maximum distribution of the injection pump;			
	3. during each free acceleration cycle, before releasing the accelerator control, the engine must have reached the speed specified by the manufacturer or, for automatic vehicles, the speed specified by the manufacturer or, if that information is not available, two thirds of the maximum speed. That can be verified, for example, by checking the engine speed or letting enough time to			
	elapse between pressing down on and releasing the accelerator; for category M₂, M₃, N₂ and N₃ vehicles, this interval has to be at least two seconds; 4. vehicles fail the test only if the arithmetic values of the recorded values in at least the last three free acceleration cycles exceeds the limit value. This can			
	be calculated ignoring the values that deviate significantly from the average recorded or by using the results of any other statistical calculation that takes			

Item	Method	Necessary information	Available information
	the dispersion of the measurements into account. The member States can limit the number of test cycles; 5. to avoid pointless tests, the member States can consider that a vehicle has failed the test if the recorded values are considerably higher than the limit values after at least three free acceleration cycles or after the bleeding cycles. Still to avoid pointless tests, the member States can consider that a vehicle has passed the test if the recorded values are considerably lower than the limit values after at least three free acceleration cycles or after the bleeding cycles.		

¹ The (X) sign indicates components relating to the vehicle status and to its suitability for road use not considered essential for technical inspections.

² Approved in compliance with 70/220/EEC directive, annex I, table 1 (Euro 5), of (EC) no. 715/2007 regulation, to the 88/77/EEC directive and to the 2005/55/EC directive.

³ Approved in compliance with annex I, table 2 (Euro 6), of the (EC) regulation no. 715/2007 and with the (EC) regulation no. 595/2009 (Euro VI).