PEUGEOT SPORT

START CHECK LIST

☐ TARMAC
☐ GRAVEL

208 Rally4

Bodyshell N°		Date		Place	

CHECK BEFORE START

Levels

	Engine oil		Coolant liquid		Steering fluid		Clutch bleeding		Fuel unleaded 98 (40L)
	Gearbox oil		Coolant bleeding		Brake / clutch fluid		Brake bleeding		

System check

	Engine map : last version		Acquisition table : last version		Dashboard conf. : last version		Powerbox soft : last version
	All ground well tighten				Check engine loom connectors are good and tighten		

System calibration

	Calibration Pedal / Throttle / eWG*		Steering wheel angle reset**

** : Main OFF, Full throttle then Main ON*

*** : page 6 "Mechanical page 1" long push on red button*

Kill switch and extinguisher check

	KILL SWITCH_ Interior and exterior test
	AUTOMATIC EXTINGUISHER_ Interior and exterior test (extinguisher on TEST mode)

Main ON / Power OFF _ Sensor signal & button check (before first start) -

FIRST : CHECK OF THE FUEL CIRCUIT - NO LEAK DETECTED ==> OK

PAGE 1 - Road	
	tOil = tWater = t0
	pOil = 1
	Gear = N
	Rpm = 0
	Speed = 0
	Map 1, 2, 3
	Gravel / Tarmac

PAGE 2 - Stage	
	tOil = tWater = t0
	pOil = 1
	Gear = N
	Rpm = 0
	Speed = 0

Page 3 - Check Fuel	
	Time = Country time
	Distance = 0
	Fuel Est = 0
	Gauge = 40L
	vGauge = 2,5 (+/- 0,5)

Page 4 - Check Page	
	Rpm = 0
	pOil = 1
	tOil = t0
	tWater = t0
	pFuelHP = 1
	pFuelTgt=150
	tExhaust = t0
	Lambda = 0
	rPedal = 0
	aThrottle > 0
	90 < eWG < 100
	pBoost = 1
	pInlet =1
	tInlet = t0
	Gear = N
	vBarrel = 1,23 (-/+ 0,02)
	Speed = 0
	pBrakeF = 1
	pBrakeR = 1
	Steer = 0
	vTank = 0 / 65V (power ON)
	vBatt > 11,5

Page 5 - Brakes	
	pBrakeF (1)
	pBrakeR (1)
	Tbrake = t0 (option)

Page 6 - Mechanical page 1	
	vShifter = 5V (2)
	vBarrel = 1,23 (-/+ 0,02) (3)
	I GboxLock = 0
	Steer : 3 Green
	Steer angle = 0

Page 7 - Mechanical page 2	
	vGauge = 2,5 (+/- 0,5)
	pFuelTgt = 150
	pFuel = 1
	I PumpFuel = 0
	Cmd Pp Fuel : 2 grey
	I Fan = 0
	Cmd Fan : 2 grey
	HandBrakeSts : grey

Page 8 - High Cur Status	
	No red

Page 9 - Low Cur Status	
	No red

Page 10 - Diagnostic Status	
	Sensor : all 0
	Coil_CO & SC : OK
	HBOC & SC : OK (4)
	DiagInj1-4 : OK
	USB Sts : OK

Console functions (power)	
	Left window opening (5)
	Right window opening (5)
	Road / stage (6)
	Tarmac / Gravel (6)
	Launch (6)
	Map (6)
	Horn
	Warning
	Heater (7)

Steering function (power) (8)	
	Turn indicators
	Parking lights
	Low beam
	High beam
	Front and rear fog lights
	Ramps headlights

Wippers (power)	
	Wipper slow
	Wipper fast
	Windshield washer

Current (A) : check on data		
	Radiator FAN	26 +/- 1
	Heater	13 +/- 1
	Fuel pump (LP)	6 +/- 0,5
	Low beam	3,5
	High beam	2,2
	Wipper (slow)	4 +/- 1
	Wipper (fast)	6 +/- 1

(1)	Brake pressure	*During braking, press the pedal until you have 30 bar to the front, you should have 16 bar to the rear (and handbrake), if not release and adjust.*
(2)	vShifter	*vShifter = 5V unused and 0V when used*
(3)	vBarrel	*vBarrel = 2,5 in 2nd gear*
(4)	HBOC	*OC - Orange until engine start*
(5)	Windows	*Learning procedure : windows closed, maintain "closing" button during 5s*
(6)	Button led	*Led are working only in Stage mode*
(7)	Fans	*Main ON - POWER OFF : press heater button to turn ON all the fans of the car*
(8)	Lights	*Main ON - POWER OFF : press warning to turn ON all the lights of the car*

NOTES

INCREASE OIL PRESSURE

	Check Vbatt	*> 12V*
	Increase oil pressure	*Power OFF, Neural gear, press HORN then maintain "START" until you have pOil > 1.5bars*
	Oil level	*Check again the engine oil level with the jauge : maximum*

STARTING

Main ON, Power ON, wait until the fuel pump has finished to work then press "START" (don't touch the pedals - no need to maintain the button)

Page 4 - Check page

	RPM ~ 1500 (Twat>70)		rPedal = 0		Speed = 0		Run BV up & downshift rpm > 3000
	5 < OilP < 5.5 on iddle		aThrottle = 12,5 (Twat >70)		pBrake F = 0		Run BV fast up & downshift rpm > 3000
	tOil ↗		90 < eWG < 100		pBrakeR = 0		Reverse gear test
	tWater ↗		pBoost ~ 0,350		Steer = 0		Shift light (dashboard) are working
	pFuelHP = 120		pInlet ~ P0		vTank = 65,5		Steering test : turning L & R, Speed > 0
	tExhaust ↗		tInlet ↗		vBatt > 13,5		Launch test (2 times) (1)
	Lambda = 1		Gear = N				
			vBarrel = 1,23				

Test (Twater > 70°C)

	Steering assistance	*Turn the wheels from left stop to right stop and check by opening the steering liquid cap if there is some air in the circuit. Proceed again until you do not have any air in the system. Make sure that the level remains sufficient to avoid introducing air into the circuit.*
	Radiator fan starts and stop (Twater > 92°C --> 90°C)	
	Restart when hot	

(1) ***Launch test : Speed = 0 - Stage mode ON - 1st gear engaged - Handbrake pressure > 7 bar - Press LAUNCH - Full throttle (pedal 100%)***

CHECK AFTER START

Car on wheels

	Steering test	*Car on wheels, engine running, turn the steering wheel to test the steering assistance*

Car cool down

	Sensor back to initial values	*Values should be back to the first check before starting the engine*
	Check of the data	*Upload them on FTP server "datalogger"*

BEFORE BURN-IN

	Correct the problem	*cf Notes*
	Put test wheels	*Pressure : 2,0b square, wheels tightnen with correct torque*

NOTES

BURN-IN PROCEDURE

PRE-RUN CHECK

- [ ] Control the levels (engine oil, coolant, brake fluide, steering oil, etc...)
- [ ] Check the tires condition, pressure adjust to 2,0bar ², tightening of the wheels nuts
- [ ] Heating up the engine / gearbox (Toil > 70°C)
- [ ] Check the differential pre-load in cold condition
- [ ] Setup OK, dampers clips OK

BURN-IN

RUN 1 *Road mode (slow run) around 5km*

- [ ] Check the feeling of the car in straight line (steering wheel, going straight)
- [ ] No anormal noise ?
- [ ] No anormal vibration ?
- [ ] Commands (steering, gearbox, pedals)

Comments RUN 1:

CHECK

- [ ] Check for leakings and levels (visual check)
- [ ] Brakes (visual check)
- [ ] Tires pressure (punctures)
- [ ] Check the tightening marks
- [ ] Check the tightness of the driveshaft nut (tarmac)
- [ ] Check the data

RUN 2 *Setting-up the brakes in Road mode (fast run), around 20km*

- [ ] Brakes bedding (following procedure then cooling down
- [ ] General feeling of the car
- [ ] The car is going straight, if not redo the setup
- [ ] Global check of the engine / gearbox operation
- [ ] At the end of the run, cool down lap

Comments RUN 2:

Car on stands, remove the sumpguard

- [ ] Global check (levels, leaks, tire pressure)
- [ ] Engine screws (tightening marks, power units mounts)
- [ ] Chassis tightening check (subframes, uprights, wishbones, dampers, wheels, brakes, etc...)
- [ ] Check the tightness of the driveshaft nut (tarmac)
- [ ] Check the data

RUN 3 *Stage mode, around 20km*

- [ ] Global feeling and performance of the car
- [ ] Test perfo 1, 2, 3 (tarmac or gravel, depending of the version)
- [ ] Handbrake test
- [ ] Turbo temperature alarm check
- [ ] At the end of the run, cool down lap
- [ ] Two launch procedure, separated by 1 lap

Comments RUN 3:

Car on stands, remove the sumpguard

- [ ] Global check (levels, leaks, tire pressure)
- [ ] Check for wheel backlash
- [ ] Differential preload check
- [ ] Brakes
- [ ] Radiator is working
- [ ] Check exhaust line
- [ ] Check the tightness of the driveshaft nut (tarmac)
- [ ] Check the data

- [ ] **Burn-in validation**