



# TECHNICAL SPECIFICATIONS

## RENAULT MEGANE R.S. COLLECTION 2012

	SPORT CHASSIS	CUP CHASSIS
Type approval (three doors)	DZ1802	DZ1802
<b>ENGINE</b>		
Type	F4R 874	F4R 874
Position	Front, transverse, inclined rearward by 8°	Front, transverse, inclined rearward by 8°
Emissions standard	EURO 5a	EURO 5a
Type	4 cylinders in-line	4 cylinders in-line
Number of valves	16	16
Balancer shafts	No	No
Block/cylinder head	Cast iron/aluminium	Cast iron/aluminium
Cubic capacity [cc]	1,998	1,998
Bore x stroke [mm]	82.7 x 93	82.7 x 93
Compression ratio	8.6	8.6
Maximum power [kW/hp]	195/265	195/265
At [rpm]	5,500	5,500
French fiscal rating [hp]	17	17
Maximum torque [Nm/m.kg]	360	360
At [rpm]	3,000-5,000	3,000-5,000
Rev limiter (neutral/other gears) [rpm]	6,500	6,500
Fuel injection type	Multipoint sequential	Multipoint sequential
Fuel	Unleaded petrol	Unleaded petrol
Flywheel	Twin mass-damping flywheel	Twin mass-damping flywheel
Catalytic converter	One primary converter	One primary converter
<b>Timing</b>		
-drive	Toothed belt	Toothed belt
-variable timing	Yes (intake)	Yes (intake)
-variable lift	No	No
-valve operation	Roller bearing	Roller bearing
-clearance adjustment	Hydraulic	Hydraulic
Electronic management (fuel injection)	Continental EMS 3110	Continental EMS 3110
Lubrication	Oil pump incorporated in sump	Oil pump incorporated in sump
<b>TRANSMISSION</b>		
Type	PK4*019	PK4*018
Manual gearbox	Six forward speeds	Six forward speeds
Traction control	Yes (ASR)	Yes (ASR)
Limited slip differential	No	Yes
Final drive ratio	16/67	16/67
<b>Gear ratios and theoretical speed at 1,000rpm [kph]</b>		
-1 <sup>st</sup>	13/40 – 9.04	13/40 – 9.16
-2 <sup>nd</sup>	19/37 – 14.30	19/37 – 14.48
-3 <sup>rd</sup>	31/43 – 20.07	31/43 – 20.33
-4 <sup>th</sup>	38/39 – 27.13	38/39 – 27.48
-5 <sup>th</sup>	38/31 – 34.13	38/31 – 34.57
-6 <sup>th</sup>	46/31 – 41.31	46/31 – 41.84
<b>CHASSIS</b>		
Type	Galvanised steel monocoque with cataphorised steel opening panels	Galvanised steel monocoque with cataphorised steel opening panels
Body type	Coupé	Coupé
Number of doors	3	3
<b>FRONT SUSPENSION</b>		
Type	MacPherson type with rectangular lower arm and independent steering axis pivot	MacPherson type with rectangular lower arm and independent steering axis pivot
Antiroll bar (ø x thickness) [mm]/Antiroll bar stiffness (m.daN/deg)	23 x 4.1 / 100	24.2 x 4.2 / 100
Flex at tyre/ground point of contact (front kerb weight in running order + 2) [mm/100kg]	22.4	15.2
Specific frequency (in running order + 2) [Hz]	1.18	1.35
Roll centre height (in running order + 2) [mm]	106	106
Unsprung weight (au train) [kg]	125	125
<b>REAR SUSPENSION</b>		
Type	H beam	H beam
Antiroll bar stiffness (m.daN/deg)	97	103
Flex at tyre/ground point of contact (rear kerb weight in running order + 2) [mm/100 kg]	32.9	23.9
Specific frequency (in running order + 2) [Hz]	1.31	1.55
Roll centre height (in running order + 2) [mm]	180	180
Unsprung weight (au train) [kg]	92	92

<b>BRAKES</b>		
Type	Dual X	Dual X
Front brakes (ø/thickness) [mm]	340/28	340/28 grooved
Front callipers	Fixed, 4 pistons – BREMBO	Fixed, 4 pistons – BREMBO (red)
Rear brakes (ø/thickness) [mm]	290/11	290/11 – grooved
Rear callipers	Single floating piston	Single floating piston
AMS stopping distance (m)	36	36
ABS	TEVES MK60 ESP	TEVES MK60 ESP
Electronic brakeforce distribution	Yes	Yes
ESP	R.S. Dynamic Management (normal/sport/off)	R.S. Dynamic Management (normal/sport/off)
<b>STEERING</b>		
Power steering	Electric	Electric
Number of turns from lock to lock	2.66	2.66
Turning circle between kerbs [m]	11.35	11.35
<b>WHEELS</b>		
Standard tyres (brand, type, size)	Dunlop Sport Maxx TT 225/40R18 92 Y	Michelin Pilot Sport 2 235/40R18 95 Y
Standard wheels (size, colour)	8.25 J 18 (Tibor 18) – satin-finish chrome	8.25 J 18 (Tibor 18) – matt black
Studs (number x centres) – Offset (mm)	5 x 114.3 – 65	5 x 114.3 – 65
Spare wheel (type – size)	Optional steel wheel – 135/80R17 103 M	Optional steel wheel – 135/80R17 103 M
<b>DIMENSIONS/WEIGHTS</b>		
Length/width/height [mm]	4,299/1,848/1,435	4,299/1,848/1,435
Wheelbase [mm]	2636	2636
Front/ rear track at tyre/ground point of contact [mm]	1,594/1,548	1,594/1,548
Kerb weight [kg]	1,387	1,387
Front/rear kerb weight split [%]	65/35	65/35
Front kerb weight [kg]	898	898
Rear kerb weight [kg]	489	489
Gross Vehicle Weight (GVW) [kg]	1,835	1,835
Maximum weight on front wheels (within GVW) [kg]	1,027	1,027
Maximum weight on rear wheels (within GVW) [kg]	808	808
Payload [kg]	448	448
Maximum braked trailer weight (within GTW) [kg]	0	0
Maximum unbraked trailer weight [kg]	0	0
<b>PERFORMANCE AND FUEL CONSUMPTION</b>		
Specific power [hp/litre – kW/litre]	132.5 – 97.5	132.5 – 97.5
Specific torque [Nm/litre]	180	180
Drag coefficient [Cd/CdA]	0.34/0.75	0.34/0.75
Weight-to-power ratio [kg/hp]	5.09	5.09
Top speed [kph]	255	255
Standstill to 100kph [s]	6	6
400-metre standing start [s]	14	14
1,000-metre standing start [s]	25.4	25.4
Fuel consumption (93/116 standard):		
– urban cycle [litres/100km]	11.3	11.3
– extra-urban cycle [litres/100km]	6.5	6.5
– combined cycle [litres/100km]	8.2	8.2
– CO <sub>2</sub> emissions [g/km]	190	190
Fuel tank capacity [litres]	60	60