

**RENAULT Clio**

Type

5/Section

X57 SY8H**12****12 SPECIAL POINTS REGARDING CLIO VERSION TI 96**● Engine : **E7F 750 - E7J 754****F3P 755 - F3P 758**● Gearbox : **XXX****Basic Manual :****N.T. 2234**

This Technical Note provides X57S, X57Y, X578, X57H which complies to the tax incentives in the depollution standard TI 96 (aimed only at certain European countries).

It anticipates future depollution standards which may come into effect in 1996.

These vehicles can be identified by their different type of computer (different advance and injection mappings, which are not visible in After Sales) and/or different types of catalysers.

In order to carry out correct diagnostic procedures on these vehicles, it will be necessary to refer to Technical Note N° 2234 which deals with special points regarding CLIO equipped with a new type of engine.

FUEL MIXTURE General

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SPECIFICATIONS AND ADJUSTMENT VALUES

Vehicle	Engine						Gearbox	Injection Type
	Type	Suffix	Bore (mm)	Stroke (mm)	Cubic Capacity (cm ³)	Volumetric Ratio		
X57S	E7F	750	75.8	64.9	1171	9.5/1	JB	Monopoint BOSCH depolluted

Checks to be carried out at idling speed *					Fuel * * * (Minimum Octane Rating)
Engine Speed (rpm)	Pollutant Emissions * *				
	CO (%)	CO ₂ (%)	HC (ppm)	Lambda (λ)	Unleaded (OR 95)
750 ± 50	0.3 max.	14.5 min.	100 max.	0.97 < λ < 1.03	

* For a coolant temperature at 80°C and after stabilised engine speed of 2500 rpm for approximately 30 seconds.

** For legislative values, see specification, depending on country.

*** Compatible Octane Rating 91 Unleaded.

Type of fuel supply	Regulated Monopoint injection
Fuel supply pump immersed in fuel tank Type : BOSCH	Voltage : 12 Volts Pressure : 1.06 bars Flow : 65 litres/hour minimum
Fuel filter secured at the front of the fuel tank underneath the vehicle	Replace every 36,000 miles (50 000 km)
BOSCH monopoint throttle housing	∅ 32 mm
Pressure regulator (incorporated in throttle housing)	Pressure : 1.06 ± 0.05 bars (not adjustable)
Electromagnetic injector Type : BOSCH	Voltage : 12 Volts Resistance : 1.2 ± 0.5 Ohms
Idle adjustment micro-motor	Not adjustable No-load switch incorporated with intensity amplifier
Throttle position potentiometer Not adjustable	Check using XR25 # 17 Idle adjustment : 17 to 40 Full-load : > 208

FUEL MIXTURE General

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SPECIFICATIONS AND ADJUSTMENT VALUES

Vehicle	Computer	SIEMENS N°	Approval N°	RENAULT Part N° *
X575	SIEMENS 35-track	S 102 730 102	77 00 864 274	77 00 869 313

* Read off RENAULT part number using XR25 in D03 then G70*.

Temperature in °C ($\pm 1^\circ$)	0	20	40	80	90
Air temperature sensor Type CTN BOSCH ; resistance en Ohms	5290 to 6490	2400 to 2600	1070 to 1270	.....	.....
Coolant temperature sensor Type CTN SIEMENS; resistance in Ohms	.....	3060 to 4045	1315 to 1600	300 to 370	210 to 270

NTK heated oxygen sensor	Voltage delivered at 850 °C : - rich mixture : > 625 mV - lean mixture : 0 to 80 mV
Catalyser (located under the floor panel)	◇ C31
26 to 36 °C thermostat paper cartridge air filter	Replace every 12,000 miles (20 000 km)
Anti-evaporation system	Canister : CAN 01 Bleed solenoid : Delco Remy Resistance : 35 ± 3 Ohms
Ignition	- Advance incorporated in injection computer - Ignition power module - Pinking sensor
Spark plugs	EYQUEM FC 42 LS Gap : 0.9 ± 0.05 mm adjustable. NGK BCP 5 ES

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SPECIFICATIONS AND ADJUSTMENT VALUES

Vehicle	Engine						Gearbox	Injection Type
	Type	Suffix	Bore (mm)	Stroke (mm)	Cubic Capacity (cm ³)	Volumetric Ratio		
X57Y	E7J	754	75.8	77	1390	9.5/1	JB	Monopoint BOSCH depolluted

Checks carried out at idling speed *					Fuel * * * (Minimum Octane Rating)
Engine Speed (rpm)	Pollutant Emissions * *				
	CO (%)	CO ₂ (%)	HC (ppm)	Lambda (λ)	Unleaded (OR 95)
825 ± 50	0.3 max.	14.5 min.	100 max.	0.97 < λ < 1.03	

- * For a coolant temperature at 80°C and after stabilised engine speed of 2500 rpm for approximately 30 seconds.
- ** For legislative values, see specification, depending on country.
- *** Compatible Octane Rating 91 Unleaded.

Type of fuel supply	Regulated Monopoint injection
Fuel supply pump immersed in fuel tank Type : BOSCH	Voltage : 12 Volts Pressure : 1.06 bars Flow : 65 litres/hour minimum
Fuel filter secured at front of fuel tank underneath the vehicle	Replace every 36,000 miles (50 000 km)
BOSCH monopoint throttle housing	∅ 36 mm
Pressure regulator (incorporated in throttle housing)	Pressure : 1.06 ± 0.05 bars (not adjustable)
Electromagnetic injector Type : BOSCH	Voltage : 12 Volts Resistance : 1.2 ± 0.5 Ohms
Idle adjustment micro-motor	Not adjustable No-load switch incorporated with intensity amplifier
Throttle position potentiometer Not adjustable	Check using XR25 # 17 Idling adjustment : 17 to 40 Full-load : > 208

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SPECIFICATIONS AND ADJUSTMENT VALUES

Vehicle	Computer	SIEMENS N°	Approval N°	RENAULT Part N° *
X57Y	SIEMENS 35-track	S 102 730 106	77 00 860 340	77 00 873 636

* Read off RENAULT part number using XR25 in D03 then G70*.

Temperature in °C ($\pm 1^\circ$)	0	20	40	80	90
Air temperature sensor Type CTN BOSCH; resistance in Ohms	5290 to 6490	2400 to 2600	1070 to 1270	.....	.....
Coolant temperature sensor Type CTN SIEMENS ; resistance in Ohms	.....	3060 to 4045	1315 to 1600	300 to 370	210 to 270

NTK heated oxygen sensor	Voltage delivered at 850 °C : - rich mixture : > 625 mV - lean mixture: 0 to 80 mV
Catalyser (located under floor panel)	◇ C31
26 to 36 °C thermostat paper cartridge air filter	Replace every 12,000 miles (20 000 km)
Anti-evaporation system	Canister : CAN 01 Bleed solenoid : Delco Remy Resistance : 35 ± 3 Ohms
Ignition	- Advance incorporated in injection computer - Ignition power module - Pinking sensor
Spark plugs	EYQUEM FC 42 LS Gap : 0.9 ± 0.05 mm adjustable. NGK BCP 5 ES

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SPECIFICATIONS AND ADJUSTMENT VALUES

Vehicle	Engine						Gearbox	Injection Type
	Type	Suffix	Bore (mm)	Stroke (mm)	Cubic Capacity (cm ³)	Volumetric Ratio		
X578	F3P	755	{ 82.7 82.7	83.5 83	1794 1783	9.8/1	AD4	SIEMENS Multipoint

Checks carried out at idling speed *					Fuel *** (Minimum Octane Rating)
Engine Speed (rpm)	Pollutant Emissions **				
	CO (%)	CO ₂ (%)	HC (ppm)	Lambda (λ)	Unleaded (OR 95)
750 ± 50 (in Neutral)	0.3 max.	14.5 min.	100 max.	0.97 < λ < 1.03	

- * For a coolant temperature at 80°C and after stabilised engine speed of 2500 rpm for approximately 30 seconds.
- ** For legislative values, see specification, depending on country.
- *** Compatible Octane Rating 91 Unleaded.

Type of fuel supply	Regulated multipoint injection
Fuel supply pump immersed in fuel tank Type : WALBRO	Voltage : 12 Volts Pressure : 3 bars Flow : 80 litres/hour minimum
Fuel filter secured in the front of the fuel tank, underneath the vehicle	Replace every 36,000 miles (50 000 km)
Throttle housing	PIERBURG : twin body 35 × 52
Pressure regulator	Pressure - no vacuum : 3 ± 0.2 bars - vacuum of 500 mbar : 2.5 ± 0.2 bars
SIEMENS DEKA 2 electromagnetic injector (blue connector)	Voltage : 12 Volts Resistance : 14.5 ± 0.5 Ohms
Idle adjustment valve : HITACHI mono coil	Type : AESP 207.10 Resistance : 9.5 ± 1 Ohms
Throttle position potentiometer Not adjustable	Check using XR25 # 17 Idle adjustment : 20 to 45 Full-load : 190 to 240

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SPECIFICATIONS AND ADJUSTMENT VALUES

Vehicle	Computer	SIEMENS N°	Approval N°	RENAULT Part N°	Diagnostic Code
X578	SIEMENS 35-track	S 101 714 204	77 00 863 468	77 00 868 324	146

Temperature in °C (± 1°)	0	20	40	80	90
Air temperature sensor Type CTN SIEMENS; resistance in Ohms	7470 to 11970	3060 to 4045	1315 to 1600	.....	.....
Coolant temperature sensor Type CTN SIEMENS; resistance in Ohms	.....	3060 to 4045	1315 to 1600	300 to 370	210 to 270

BOSCH heated oxygen sensor Type : LSH6 or LSH24	Voltage delivered at 850 °C : - rich mixture : > 625 mV - lean mixture : 0 to 80 mV
Catalyser (located under floor panel)	◇ C34
Paper cartridge air filter	Replace every 12,000 miles (20 000 km)
Anti-evaporation system	Canister : CAN 01 Bleed solenoid : Delco Remy Resistance : 35 ± 3 Ohms
Ignition	- Advance incorporated in injection computer - Ignition power module - Pinking sensor
Spark plugs	EYQUEM BOSCH CHAMPION C 52 LS W7DCO N7YCX Gap : 0.9 ± 0.05 mm adjustable.

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SPECIFICATIONS AND ADJUSTMENT VALUES

Vehicle	Engine						Gearbox	Injection Type
	Type	Suffix	Bore (mm)	Stroke (mm)	Cubic Capacity (cm ³)	Volumetric Ratio		
X57H	F3P	758	{ 82.7 82.7	83.5 83	1794 1783	9.8/1	JB	SIEMENS Multipoint depolluted
Checks to be carried out at idling speed *								Fuel *** (Minimum Octane Rating)
Engine Speed (rpm)	Pollutant Emissions **							
	CO (%)	CO ₂ (%)	HC (ppm)	Lambda (λ)				
780 ± 50	0.3 max.	14.5 min.	100 max.	0.97 < λ < 1.03	Unleaded (OR 95)			

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Air temperature sensor Type CTN SIEMENS; resistance in Ohms	7470 to 11970	3060 to 4045	1315 to 1600
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