

CLIO CUP

USER MANUAL

B. Presentation



1 PRESENTATION

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1.1 IDENTIFICATION

1.1.1 ROLL CAGE

The roll cage plate is located on the roll cage's rear left hand strut.

It features the following information:

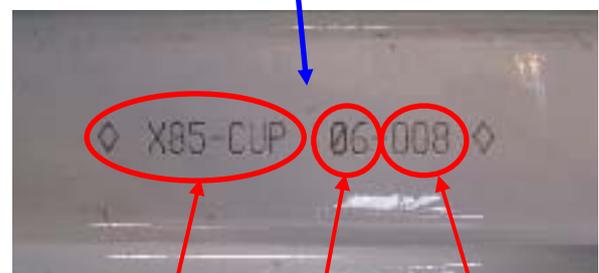
- Manufacturer
- Model
- Serial number

The roll cage homologation number is:
27-31/675 (homologated by the DMSB).



1.1.2 CHASSIS NUMBER

The chassis number is engraved on the passenger side of the centre crossmember.



Type	Year	Serial N°
------	------	-----------

1.1.3 HOLOGRAMS

The bodywork parts and certain mechanical components are identified using embossed hologram disks (see Appendix/List of marked parts).

The wording "**NO PAINT**" indicates you must not paint over the hologram under any circumstances.

The presence of the holograms is mandatory. The absence of hologram(s) may be regarded as technical non-compliance and event organizers may require that the part(s) in question be replaced.



1.1.4 MARKINGS

Certain mechanical components are identified using an engraving (see Appendix/List of marked parts).

An engraving is proof that the part is genuine, but does not confirm that it complies with regulations.

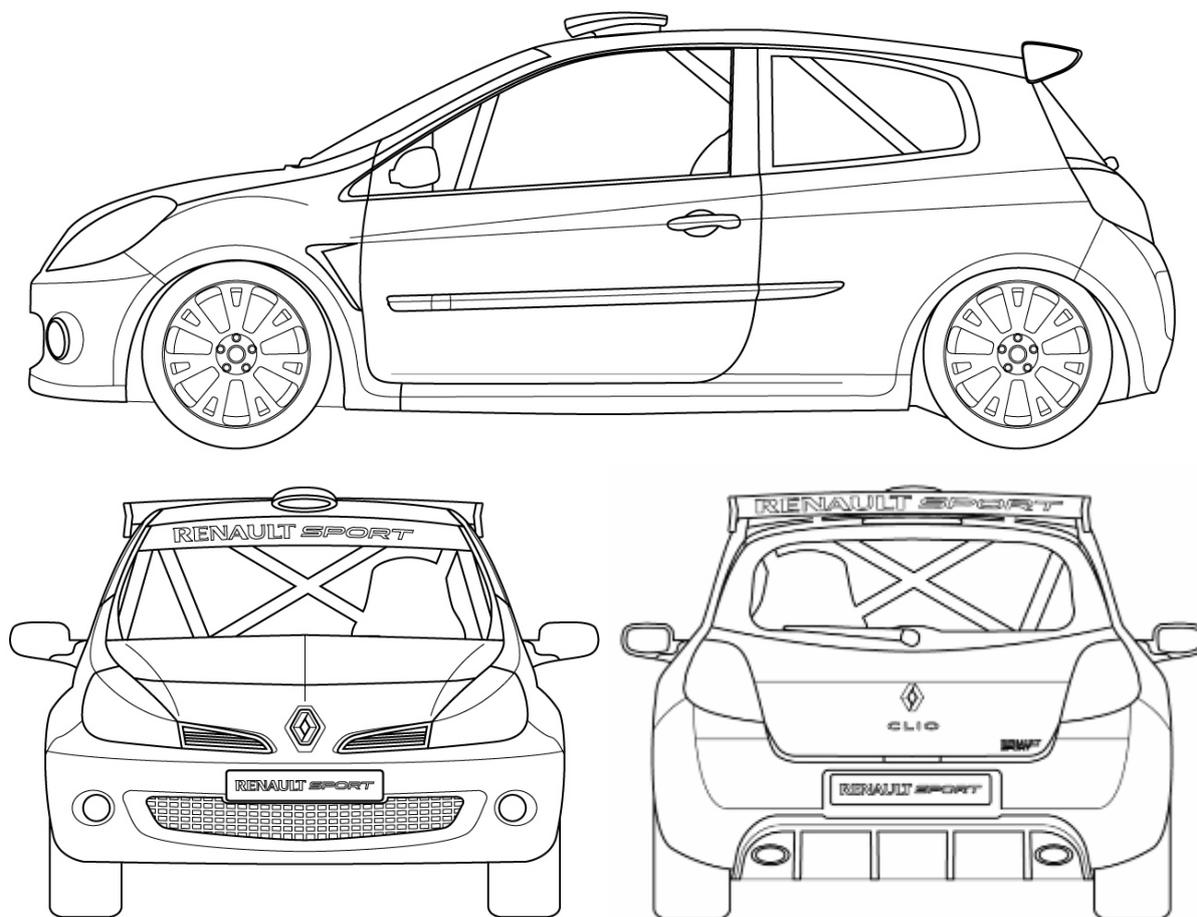
The absence of engraving(s) may be regarded as technical non-compliance and event organizers may require that the part(s) in question be replaced.

Supplier engraving



Renault Sport engraving



1.2 DIMENSIONS

Overall height	1,480mm
Overall length (Mk.I)	3,991mm
Overall width	2,025mm
Wheel base	2,585mm
Front track (at axle)	1,538mm
Rear track (at axle)	1,520mm
Total weight (without fuel)	1,060kg
Front/rear split [%]	63.6 / 36.4

1.3 CAPACITIES

	Capacity	Characteristics		Comments
Fuel tank	54L	<ul style="list-style-type: none"> ▪ Free practice or private testing: SP 98 grade unleaded ▪ Events: see technical regulations 		Tolerance: - 0L + 1.5L
Engine lubricant	5L	Elf Excelcium NF	5W40	See technical regulations
Gearbox lubricant	1.4L	Elf HTX 752	75 W 140	See technical regulations
Coolant	6.5L	Glacool RX Type D		
Front/rear brake fluid	0.8L	Elf XT	Dot 5	

Use of Elf Excelcium 5W40 engine oil is mandatory (refer to technical regulations).

You are free to use alternatives for all other fluids, but they must comply with the characteristics specified above.

BRAKE FLUID

Cars are delivered with "Elf XT Dot 5" brake fluid.

When changing any type of fluid, the old fluid must be completely drained and the braking circuit must be cleaned before the new fluid can be added.

The compatibility of the hydraulic systems (braking and clutch) must be checked before using any fluid other than that which has been recommended.

1.4 GENERAL CHARACTERISTICS

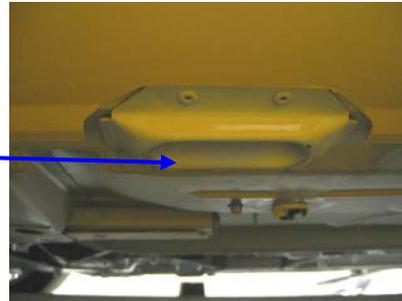
Description	Dimensions
SCx	0.77
FR SCz	0.15
RR SCz	-0.1
Front ground clearance at standstill	110mm
Rear ground clearance at standstill	200mm
Front camber at standstill	-3.5 degrees
Rear camber at standstill	-2.0 degrees
Front/rear tyre radius under load	306mm
Vertical stiffness of front/rear tyre (<i>camber = -3°, P=2bar</i>)	240N/mm
Front/rear tyre dimensions	20/61-17
Front/rear wheel dimensions	8" x 17"
Front unsprung mass per ¼ of vehicle	53kg
Rear unsprung mass per ¼ of vehicle	38kg
Front sprung mass per ¼ of vehicle	317kg
Rear sprung mass per ¼ of vehicle	172kg
Engine power	152,3kW (207bhp)
Max. engine speed	7,500rpm
Max. engine torque	223N.m (22.7m.kg)
Front camber variation	See section 4-1 Front axle
Variation in front roll centre	
Front wheel alignment variation at compression	
Front wheel alignment variation at rebound	
Front shock absorber / wheel installation kinematics ratio	
Rear camber variation	See section 4-2 Rear axle
Variation in rear roll centre	
Rear wheel alignment variation at compression	
Rear wheel alignment variation at rebound	
Rear shock absorber / wheel installation kinematics ratio	0.9

1.5 HANDLING

1.5.1 LIFTING AT FRONT

The vehicle is raised at the front using a jack.

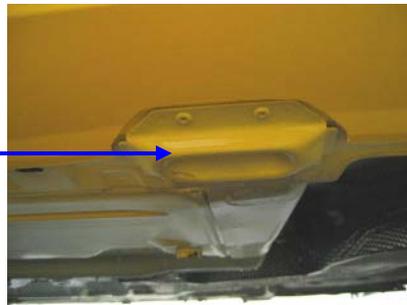
The jack must be positioned beneath the pad provided.



1.5.2 LIFTING AT REAR

The vehicle is raised at the rear using a jack.

The jack must be positioned beneath the pad provided.



1.5.3 TOWING AT FRONT

The vehicle may be towed from the front using the strap provided.



1.5.4 TOWING AT REAR

The vehicle may be towed from the rear using the strap provided.

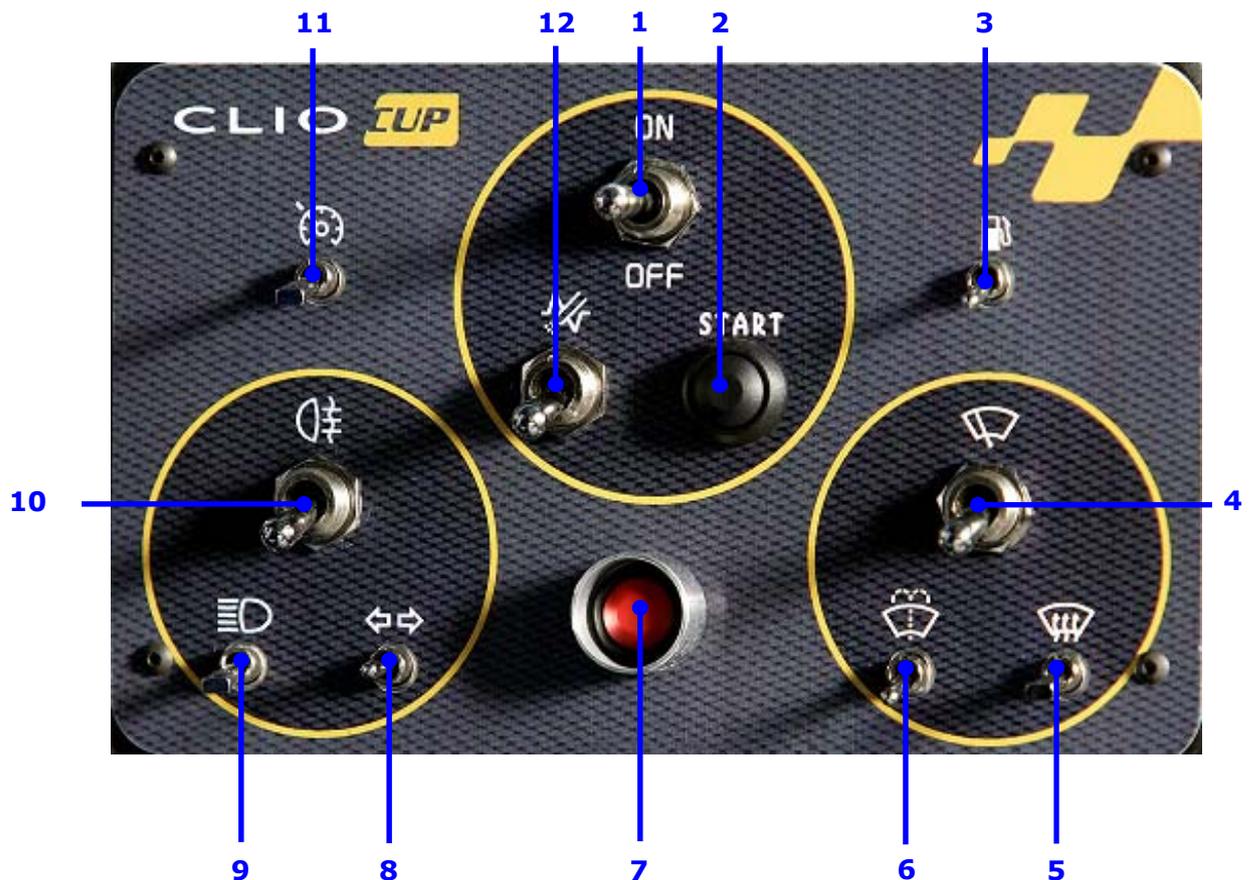


1.6 USING THE CAR

1.6.1 CONTROL PANEL

- 1 – Power supply
- 2 – Starter
- 3 – Fuel pump override
- 4 – Front wipers
- 5 – Windshield demister
- 6 – Windshield washer
- 7 – Extinguisher
- 8 – Indicators
- 9 – Headlights
- 10 – Rear rain lights
- 11 – Speed limiter
- 12 – Ignition/injection

NB: All of the switches enable their respective command when they are in the up position, with the exception of the indicator switch.



Note:

You are advised to use a window washer type fluid in order to clean the control panel. All hydrocarbon-based products should be avoided.

1.6.2 DISPLAY

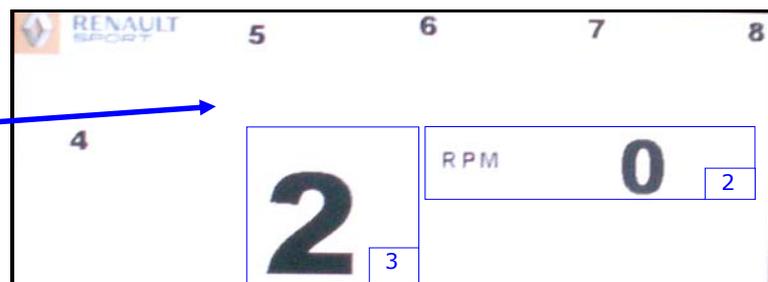
Pages

The display has seven different pages

Driver pages

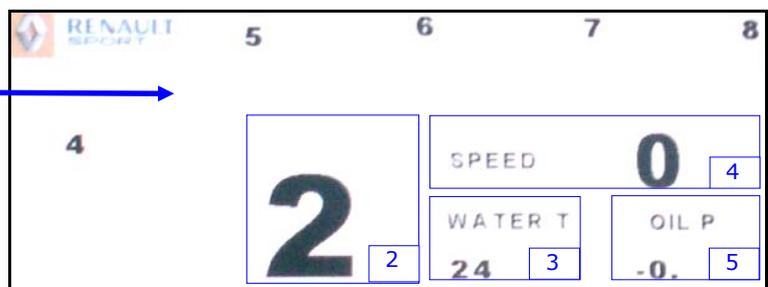
Page 1

- 1: Engine speed *bar-graph* [x1,000rpm]
- 2: Engine speed [rpm]
- 3: Gear



Page 2

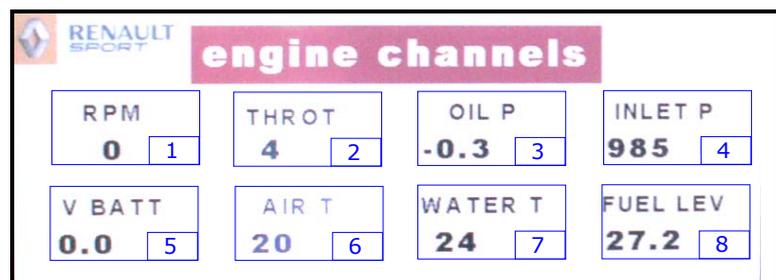
- 1: Engine speed *bar-graph* [x1,000rpm]
- 2: Gear
- 3: Water temperature [°C]
- 4: Vehicle speed (kph)
- 5: Oil pressure [bar]



Pit pages

Page 1

- 1: Engine speed [rpm]
- 2: Throttle [%]
- 3: Oil pressure [bar]
- 4: Intake pressure [mbar]
- 5: Battery voltage [V]
- 6: Intake air temperature [°C]
- 7: Water temperature [°C]
- 8: Fuel level [L]



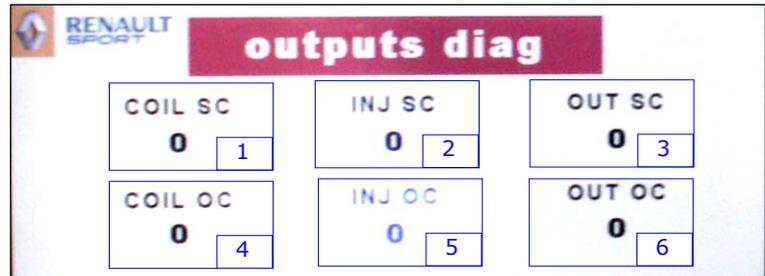
Page 2

- 1: Barrel potentiometer voltage [mV]
- 2: Engine cut-off switch status
- 3: Gear



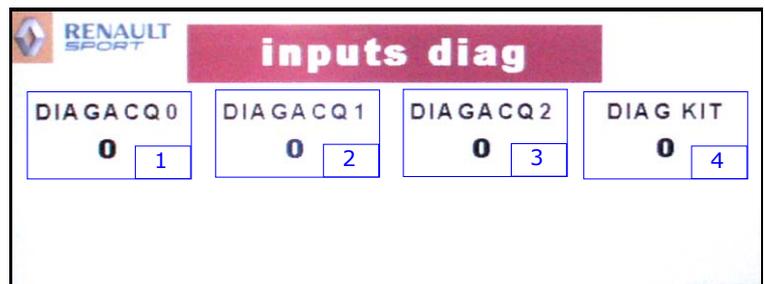
Page 3

- Outputs diagnostics:
- 1: Coil short-circuit
 - 2: Injector short-circuit
 - 3: Other output short-circuit
 - 4: Coil open circuit
 - 5: Injector open circuit
 - 6: Other output open circuit



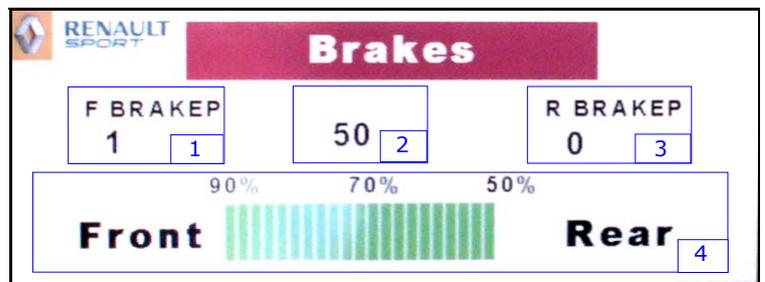
Page 4

- Inputs diagnostics:
- 1: Analog 0
 - 2: Analog 1
 - 3: Analog 2
 - 4: Optional acquisition kit



Page 5

- 1: Front brake pressure [bar]
- 2: % pressure on front brakes
- 3: Rear brake pressure [bar]
- 4: Pressure split *bar-graph* [%]



Note: The information on pits page 5 is only available if the vehicle is fitted with the optional data acquisition kit.

Changing pages

The pages of the display may be changed by pressing on the push button indicated **(13)**.

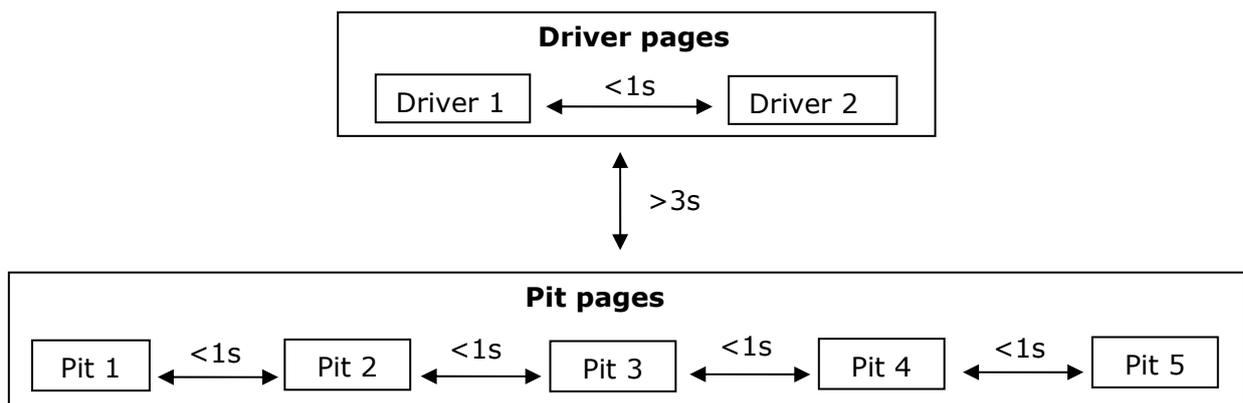
Pressing briefly on this button (one second) moves the display from driver page 1 to driver page 2.

Pressing this button for longer (more than 3 seconds) moves the display from one of the driver pages to one of the pit pages. Pressing briefly on the button then moves the display from one pit page to another.



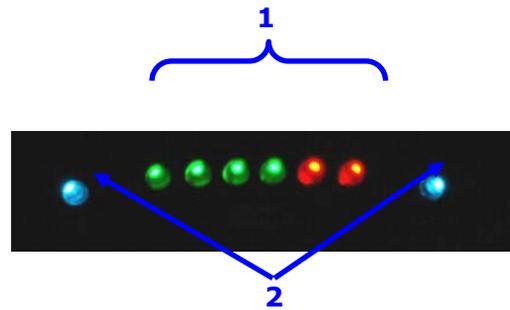
You can return to the driver pages by pressing the button for a longer period (more than 3 seconds). The display returns to the last driver page that was viewed.

Note: It is impossible to change pages if an alarm is displayed on the dashboard.



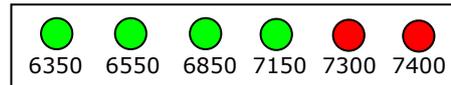
LEDs

The display is fitted with 6 engine speed indicator LEDs **(1)** (4 green and 2 red) and with two alarm LEDs **(2)** (blue).



Engine speed LEDs

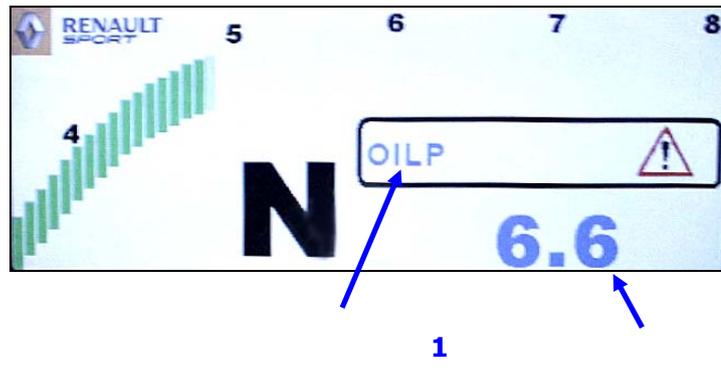
The LEDs light up as indicated in all gears, except neutral and reverse.



← Engine speeds at which LEDs light up (in rpm)

Alarms

When an error occurs that must be acknowledged by the driver, an alarm appears on the dashboard display. Each alarm **(1)** is shown along with a critical value **(2)**. In this example, the oil pressure is above the maximum threshold (cold oil). The list of alarms is provided in the Appendix.



1.6.3 BASIC PROCEDURES

Power-up

Flick the vehicle's power supply switch **(1)** into the up (on) position. The home page appears when dashboard display first comes on, and then moves to one of the driver pages.

Starting

Once the vehicle's electrics are on, flick the vehicle's ignition switch **(12)** to the up (on) position.

Check that the car is not in gear (the letter "N" should be displayed on one of the display screen's driver pages).

Press on the start button **(2)** whilst lightly pressing on the accelerator until the engine starts.



The vehicle will only start if all of the electronic equipment is connected (Dashboard, Calculator and the New Technology Battery Master Switch) and working properly.

Turning off the engine

Flick the ignition switch **(12)** to the down (off) position.

Note: *The vehicle's electrics are still switched on.*



Except in the event of an emergency stop, you are not advised to turn off the engine using the power supply switch **(1)**. You are also recommended to wait 30 seconds between switching off the engine and switching off the power supply. Respecting these two recommendations will guarantee optimum operation of the power steering.

Switching off the power supply

Flick the car's electrical power supply switch **(1)** to the down position (off) and hold there for at least half a second. The dashboard display is switched off.

Note: *Switching off the power supply also switches off the engine.*

Changing gear

- Gearshift lever

The gearshift lever **(1)** is located to the right of the steering wheel.



- Principle

Pull the gear lever to upshift, push the gear lever to downshift. The gear selected is displayed on the dashboard screen, on the "driver" pages and on the "gear channels" page.

- Switching from neutral to first gear

Pull the gearshift lever half of its full travel.

- Switching from reverse to first gear

Pull the gearshift lever its full travel.

- Switching from 1st gear to neutral

Pull the unlocking lever **(1)** located on the pillar of the roll cage on the left of the steering wheel. Push the gearshift lever half of its full travel whilst keeping the unlocking lever actuated.



- Selecting reverse gear

Pull the unlocking lever **(1)**. Push the gearshift lever half of its full travel (from neutral) or its full travel (from first gear) whilst keeping the unlocking lever actuated.



Speed limiter

The purpose of this function is to limit the vehicle's speed to 60kph. It is enabled and disabled by the driver.

It is enabled and disabled using button **(11)** on the dashboard.

- Principle

Flicking the speed limiter switch **(11)** to the up position (on) triggers the speed limitation procedure.

Engine revs are thus limited to those corresponding to a speed of 60kph.

Note: *The speed limiter does not control the brakes. Consequently, the vehicle speed will only slow rapidly to 60kph if the driver applies the brakes.*

When the speed reaches 60kph, with the exception of the specific conditions described below, vehicle speed is then controlled by the ECU. The message "Pit Limiter" appears on the display.

To disable the speed limiter mode, the driver must flick the switch **(11)** to the down position (off). The message "Pit Limiter" disappears on the display.

- Specific conditions

The driver may only enable and disable the speed limiter when the vehicle is in one of the first three gears.

Controlling the rain light

The rain light is switched on by flicking the rear rain light switch **(10)** to the up position (on).

The light is on continuously when enabled.

However, it is lightning automatically with flashing phases in the following specific situations:

- When the speed limiter function is enabled and the vehicle speed is less than equal to 60kph (flashes at 0.5Hz).
- For a period of 20 seconds after the engine stalls (flashes at 1Hz).

Procedure for resetting the oil pressure

The oil pressure sensor is reset using the following procedure:

- Switch off the main power supply (switch **(1)** on the control panel).
- Press the accelerator pedal to the floor.
- Switch on the vehicle's electrics (switch **(1)** on the control panel) while keeping the accelerator pedal pressed for at least 5 seconds.
- Check that the value of oil pressure have been reset.

Notes: *This operation must be performed with the vehicle on a flat, level surface. This operation also resetting the accelerometer and brake pressure sensors.*

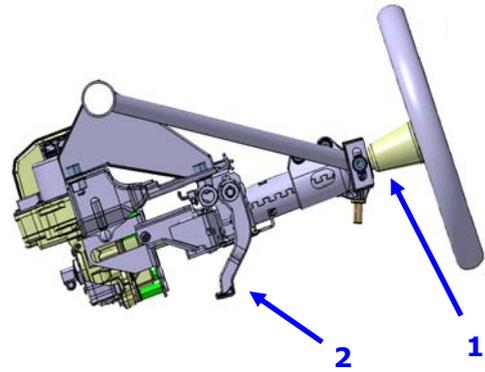
1.6.4 ADJUSTING THE DRIVING POSITION

Adjusting the steering wheel

To optimize the driving position, the height of the steering wheel may be adjusted.

To adjust the steering wheel:

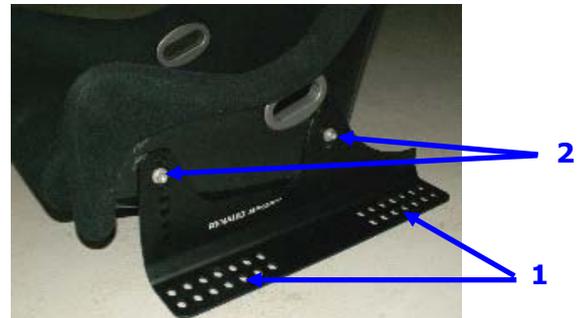
- Loosen the two roll cage bar stay mounting bolts **(1)** on the steering column sleeve.
- Unlock the steering column's adjustment lever **(2)**.
- Adjust the steering wheel position.
- Re-lock the lever.
- Tighten the two mounting bolts to **21Nm**.



Adjusting the seat

To move the seat forwards or backwards, unscrew the brackets from the body floor, place the seat in the required position and re-screw the brackets in the appropriate holes **(1)**.

The height and angle of the seat may be adjusted in similar fashion by altering its attachment points on the brackets **(2)**.



1.6.5 VENTILATION

The vehicle has 4 air vents:

- 2 on the dashboard.
- 2 on the roof.

The air vents may be directed and/or plugged.

Air is supplied to the two dashboard air vents from the blower, enabled by a switch **(5)** on the control panel.



1.6.6 FUEL LEVEL

The fuel level **(1)** is shown on the display's "engine channels" page.

RENAULT SPORT				engine channels			
RPM	THROT	OIL P	INLET P				
0	4 %	-0.3 bar	985 bar				
V BATT	AIR T	WATER T	FUEL LEV				
0.0 V	20 °C	24 °C	27.2 L				



- Once the vehicle's electrics are switched on (switch **(1)** on the control panel) and until the ignition is next enabled (switch **(12)** on the control panel), the volume displayed **(1)** corresponds to the amount of fuel recorded by the fuel tank gauge.
- One second after enabling the ignition (switch **(12)** on the control panel), the volume indicated by the gauge is saved if the following conditions are met:
 - Vehicle speed is zero.
 - Engine speed is zero (engine off).
 - There is no electrical fault on the gauge.

Subsequently, the volume displayed is decremented by the injection ECU (based on the length of time injectors are open and the fuel flow rate)

- After being driven, in order to update the volume of fuel displayed using information from the gauge, the vehicle's electrics must be switched off and switched back on (switch **(1)** on the control panel).

Note:

In order that the information displayed regarding fuel volume is as accurate as possible, you are advised to update the gauge when the vehicle has its wheels fitted and is at rest on a flat surface.

The displayed value is only indicative. We highly recommend not to follow this only value to calculate the remaining fuel quantity regarding the technical regulations (article 16).

The maximum quantity of fuel in the tank is 54 litres, whereas the displayed value cannot exceed 49 litres. This means that, between 54 and 49 litres, the displayed value will remain 49 litres, even if the measured and the calculated levels have decreased.

1.7 SAFETY EQUIPMENT

1.7.1 EXTINGUISHER

Each vehicle is equipped with an extinguishing system targeting the driver compartment and the engine compartment.

The fire extinguisher is located in the driver compartment on the right of the driver.



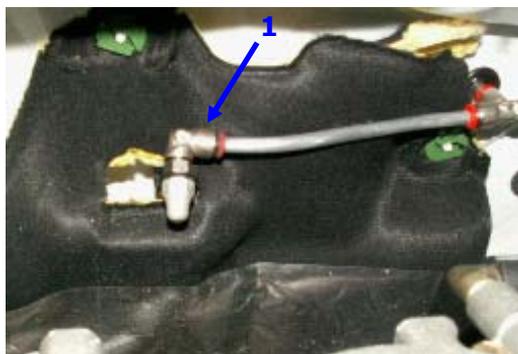
The system consists of 3 jets:

- 1 in the driver compartment on the left of the steering wheel



- 2 in the engine compartment:

1 pointing at the exhaust manifold **(1)**:



1 pointing at the intake **(2)**:



Use

The extinguishing system is controlled by a unit located next to the fire extinguisher, on the right of the driver.



The extinguishing system can be triggered in one of three ways:

- The driver presses on the button **(7)** on the control panel on the dashboard.
- The driver presses on the button **(1)** on the control unit.
- By pressing the button **(1)** located on the outside of the vehicle at the base of the windshield pillar, and which must be indicated by a red letter E.



The extinguishing system will only be triggered if the switch **(2)** is in the up position (on).

The control unit is delivered without batteries in order to avoid any accidental triggering of the extinguishing system. Ensure that you install a battery in the control unit's compartment **(4)** before using the vehicle for the first time.

Checks

- Extinguisher cylinder compliance check

The following information must be clearly visible on the cylinder:

- Serial number.
- Capacity and weight or volume of extinguisher product.
- Activation date or date of last system check.
- Date of next service.
- Homologation number.



Take care not to exceed the extinguisher's next scheduled service date.

- Pressure check

The pressure of the cylinder may be checked using a manometer placed on the cylinder. The needle must be situated in the green area on the manometer dial.

- Wiring harness check

To check that the extinguisher is working properly, flick the switch **(2)** to the down position (off-test) and press on one of the three trigger buttons.

If the test ok LED **(3)** lights up, the extinguisher and its control circuits are working properly.

If it does not light up, check the extinguisher control unit's wiring.

1.7.2 CIRCUIT-BREAKER

There is an emergency circuit breaker control at the base of the windshield pillar **(1)**. It must be indicated by a sticker with a red lightning symbol on a blue background. This button may be used to switch off the vehicle's electrics from the outside.



1.7.3 OTHER SAFETY EQUIPMENT

- The presence of the window safety net (ref. **77 11 160 041**) on the driver side of the roll cage is mandatory.
- It is mandatory for foam (ref **77 11 160 040**) to be placed on all parts of the roll cage with which the driver's helmet may come into contact.
- The seats (original part ref: **77 11 160 035** and XL version part ref: **77 11 160 192**) and the harness (ref **77 111 160 036**) are compatible with the HANS system.

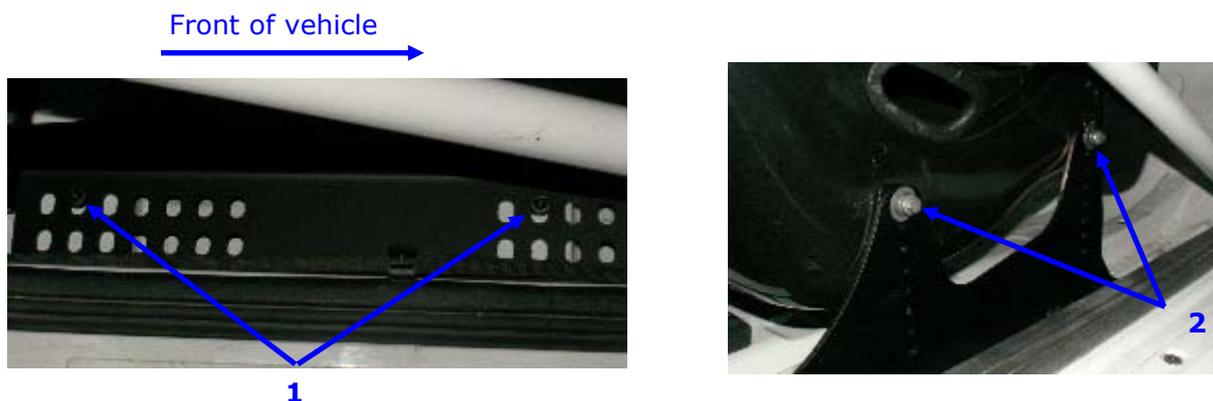


The use of « HANS » system must be in compliance with the installation standard of FIA.

1.7.4 PASSENGER SEAT

A passenger seat may be installed on Clio Cup using the supports with part ref **77 11 160 381**.

So as not to damage the fire extinguisher and the extinguisher lines, it is essential to comply with the following passenger seat settings:

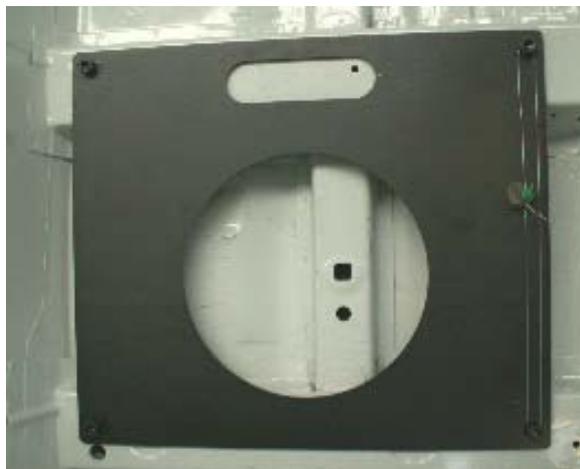


The seat must be positioned towards the rear, in the second to last position **(1)**.
The seat must be positioned in the highest position **(2)**.

1.8 BALLAST

Where championship technical regulations state that vehicles must carry a minimum weight, it is mandatory to use the following ballast plates:

1kg: ref **77**
11 160 299
2kg: ref **77**
11 160 300
5kg: ref **77**
11 160 301



These plates must be mounted on the body using two drilled head bolts with part ref **77 11 160 302** (sold in sets of 2).

In all cases, these ballast plates will be fixed at the seat rail sites, between these ones and the frame (refer to the current Technical Regulations).

1.9 APPENDICES

1.9.1 LIST OF MARKED PARTS

All parts that are specific to Clío Cup are engraved

The following genuine Renault parts are identified either by a "Renault Sport" laser engraving or by a hologram(its presence is compulsory with NO PAINT)

Part name	Reference no.	Marking
Fuel rail	77 11 160 032	"Renault Sport" laser engraving
Rack riser shim	77 11 160 016	
Steering unit assembly	77 11 160 046	
Extended steering tie-rod	77 11 160 144	
Rear disc hub	77 11 160 107	
1kg ballast plate	77 11 160 299	
2kg ballast plate	77 11 160 300	
5kg ballast plate	77 11 160 301	
Throttle valve unit	77 11 160 249	
1° wheel alignment shim	77 11 160 169	
30' wheel alignment shim	77 11 160 170	
20' wheel alignment shim 20'	77 11 160 171	
10' wheel alignment shim 10'	77 11 160 172	
1° Camber alignment shim	77 11 160 173	
30' Camber alignment shim	77 11 160 174	
20' Camber alignment shim 20'	77 11 160 175	
10' Camber alignment shim 10'	77 11 160 176	
Point F support	77 11 160 018	
Fitted front lower arm	77 11 162 598	
Right QQ' tie-rod	77 11 160 146	
Left QQ' tie-rod	77 11 160 147	
Track shim	77 11 160 154	
Anti-roll bar	77 11 160 155	
Rack lock shim	77 11 160 142	
Point F upper cup	77 11 160 017	
Left-hand steering ball joint holder	77 11 160 319	
Right-hand steering ball joint holder	77 11 160 318	
Front disc	77 11 160 361	
Front left caliper	77 11 160 363	
Front right caliper	77 11 160 362	
Clutch friction	77 11 160 229 77 11 162 520	
Clutch mechanism	77 11 160 287	

Part name	Alpine part ref.	Marking
Front bumper	77 11 162 535	Hologram
Rear bumper	77 11 160 029	
Rear spoiler	77 11 160 033	
Fuel tank	77 11 160 061	
Right door panel	77 11 160 064	
Left door panel	77 11 160 065	
Clio Cup 85 dashboard	77 11 160 216	
Clio Cup 85 console	77 11 160 263	
Rear diffuser	77 11 162 532	
Right-hand headlight	77 11 162 545	
Left-hand headlight	77 11 162 544	
Front left door window glass	77 11 160 089	
Front right door window glass	77 11 160 388	
Windshield glass	77 11 160 087	
Rear window glass	77 11 160 088	
Rear right light	77 11 160 080	
Left rear light	77 11 160 079	
Left quarter panel glass	77 11 160 090	
Right quarter panel glass	77 11 160 091	
Battery	77 11 127 895	
Steel electric extinguisher	77 11 160 038	
Roof vent	77 11 160 129	
Driver compartment diffuser	77 11 160 315	
Left door	77 11 160 395	
Right door	77 11 160 394	
Hood	77 11 160 396	
Tailgate	77 11 160 397	
Front right fender	77 11 160 398	
Front left fender	77 11 160 399	
Front end crossmember	77 11 160 086	
Right spoiler end	77 11 160 404	
Left spoiler end	77 11 160 405	
Braking amplifier	77 11 160 156	
Fuel pump	77 11 160 406	
Gearbox control stay	77 11 160 148	
Left-hand rear-view mirror	77 11 162 550	
Right-hand rear-view mirror	77 11 162 551	
Left-hand rear-view mirror shell	77 11 162 548	
Right-hand rear-view mirror shell	77 11 162 549	
Left-hand radiator convergent	77 11 160 389	
Right-hand radiator convergent	77 11 160 390	
Motor fan	77 11 160 391	
Water radiator	77 11 160 206	

1.9.2 RECOMMENDATIONS REGARDING REPLACEMENT OF MECHANICAL COMPONENTS

The mileage of the below parts must be monitored by the user throughout the vehicle's lifetime.

The mileage stated in the table below is the maximum expected mileage before replacement, notwithstanding any incidents or accidents.

Should any component become faulty or its condition deteriorate before reaching the stated mileage, please contact Renault Sport Technologies.

Note: *This list may not under any circumstances be considered to be part of the manufacturer's warranty.*

Front axle

Point F ball joint	7,500 km
Wishbone balljoints	3,500 km
Point E ball joint	7,500 km
Point F' ball joint	7,500 km
Wheel bearing	5,000 km
EE' support	7,500 km
Shock absorbers	5,000 km
Bump stop	5,000 km
Support strut	15,000 km
Anti-roll ball joint	7,500 km
Wheel stud and nut	5,000 km

Rear axle

Point F ball joint	7,500 km
Point E ball joint	7,500 km
Point A ball joint	7,500 km
Wheel bearing	5,000 km
Shock absorbers	5,000 km
Bump stop	5,000 km
Wheel stud and nut	5,000 km

Steering

Power steering module	15,000	km
Steering unit	7,500	km
Axial ball joint	7,500	km
Point H ball joint	7,500	km

Kinematic chain

Gearbox	7,500	km
Clutch friction	5,000	km
Clutch mechanism	5,000	km
Drivetrains	5,000	km

Engine

Engine	10,000	km
Starter	10,000	km
Alternator	10,000	km
Throttle position sensor	5,000	km
Engine mounting cover	5,000	km
Gearbox mounting	5,000	km

Brakes

Front brake disc	5,000	km
Front brake caliper	10,000	km
Rear brake disc	10,000	km
Rear brake caliper	10,000	km

Note: Particular attention must be paid to the state of the fasteners after any work has been carried out.

1.9.3 LIST OF ALARMS

Message	LED	Meaning	Threshold
-	Left	Min. water temperature	$\leq 30^{\circ}\text{C}$
"V BAT MIN" + value	Right	Min. battery voltage	V batt $\leq 10\text{V}$ and revs $\geq 4,000\text{rpm}$
"V BAT MAX" + value	Right	Max. battery voltage	V batt $\geq 15\text{V}$ and revs $\leq 2,000\text{rpm}$
"AIR T" + value	Right	Max. air temperature	Air T $\geq 90^{\circ}\text{C}$
"OILP" + value	Right	Max. oil pressure	Oil P ≥ 6 bar and revs $\leq 2,000\text{rpm}$
"Water T Max" + value	Right	Max. water temperature	$\geq 110^{\circ}\text{C}$
"OILP" + value	Right	Min. oil pressure	Oil P ≤ 2 bar and revs $\geq 3,000\text{rpm}$
"Throttle - def"	-	Electrical fault on throttle position sensor	-
"Inlet P - def"	-	Electrical fault on intake pressure sensor	-
"Air T - def"	-	Electrical fault on air intake temperature sensor	-
"Oil P - def"	-	Electrical fault on oil pressure sensor	-
"Water T - def"	-	Electrical fault on water temperature sensor	-
"VERLOG - Active"	-	Software lock enabled	-
"CBNT - Can def"	-	CAN CBNT fault	-
"DAE - minor def"	-	Minor fault on power steering module	-
"DAE - major def"	-	Major fault on power steering module	-
"V.V.T. - def"	-	V.V.T. servo control fault	-
"Barrel - def"	-	Electrical fault on barrel position sensor	-
"W.S.left - def"	-	Electrical fault on front left wheel speed sensor	-
"W.S.right - def"	-	Electrical fault on front right wheel speed sensor	-
"DAE-Power def"	-	Power supply fault on power steering module	-
"INJ.-Power def"	-	Injector power supply fault	-
"IGN.-Power def"	-	Ignition coil power supply fault	-
"PUMP-Power def"	-	Fuel pump power supply fault	-
"Pit Limiter"	-	Speed limiter enabled	-