



# LEON CUP RACER



2015

TECHNICAL INFO



## TECHNICAL INFO

This document summarizes some new contents that are going to be part of the Seat Leon Cup Racer's technical manual 2015 with informative purposes. This manual can be found following this link:

[http://www.seat-sport.com/wp-content/uploads/2015/04/TECHNICAL-MANUAL-LEON-CUP-RACER\\_2015.pdf](http://www.seat-sport.com/wp-content/uploads/2015/04/TECHNICAL-MANUAL-LEON-CUP-RACER_2015.pdf)

### 1.- Engine water cooling system

Seat Sport only recommends the use of VW Group coolant (pink), that can be found in VW dealers, or Castrol coolant offered in our spare parts catalogue (Ref. VN0000060400).

### 2.- Diagnostics: OBD fault memory

Seat Sport informs that to obtain any information from the diagnostics tools it is necessary to follow a specific procedure when stopping the car. If this procedure is not followed, faults memory is lost and no faults can be read later.

The correct procedure to stop the car is the following:

1. Stop the engine using only the yellow switch (power switch/KL-15)
2. Wait at least 60 seconds. If the waiting time is under these 60 seconds the faults memory is not saved.
3. Switch off the car using the red switch (main switch/KL-30).

If this procedure is followed correctly the faults memory is saved and these faults can be checked with the diagnostics tools at any time

thereafter. These faults are saved until the memory is deleted manually using the diagnostics program.

The diagnostics tool DiagRA-LE customer version is already available at the Seat Sport webpage:

[http://www.seat-sport.com/wp-content/uploads/2015/05/Installation\\_Registration\\_DiagRA\\_12.5.2015.pdf](http://www.seat-sport.com/wp-content/uploads/2015/05/Installation_Registration_DiagRA_12.5.2015.pdf)

### 3.- Diff pump mileage

Seat Sport recommends following the instructions appearing in the parts mileage chapter of the technical manual for all the wear parts (see technical manual 2015 page number 47).

TRANSMISSION	Inspection	Service / km	Change	Remark
<b>Gearbox</b>		8.000	12.000	Serviced by Seat Sport
<b>Gearbox oil</b>			5.000	Use original parts only
<b>Gbx oil filter</b>			5.000	
<b>FDX (slip differential)</b>		8.000	12.000	Serviced by Seat Sport
<b>FDX pump</b>			4.000	Replace at this mileage
<b>Oil FDX</b>			5.000	Use recommended oil only
<b>Drive shaft</b>	Once x event	5.000	10.000	

### 4.- Steering handle mileage

Seat Sport added the steering handles to the wear parts list. The new recommended mileage can be consulted in the parts mileage chapter of the technical manual (see technical manual 2015 page number 47).

FRONT AXLE	Inspection	Service / km	Change	Remark
<b>Front dampers</b>		5.000 / 1 year	8000	Seat Sport service
<b>Ball joints</b>	Once x event		5.000	Always check tolerance
<b>Steering rod inner joint</b>	Once x event		5.000	Always check tolerance
<b>Steering rack</b>			15.000	
<b>Steering handle</b>	Once x event		4.000	Inspect cracks
<b>Wheel hub</b>	Once x event		10.000	Change when noise
<b>Front Discs</b>	Once x event		1.500	Change when cracks
<b>Disc bells</b>			5.000	
<b>Brake balance bar</b>	Once x event	4.000		

### 5.- Brake balance bar



## LEON CUP RACER 2015 TECHNICAL INFO

Seat Sport has detected some assembly and use anomalies in the brake balance bar placed in the brake pedal assembly of the Leon Cup Racer. To ensure the correct installation and functioning see the following document:

<https://tiltonracing.com/wp-content/uploads/2013/07/98-1250-600-Series-Balance-Bars.pdf>

### 6.- Seat Leon Cup Racer Update 2015

Seat Sport has developed an update available for all the Seat Leon Cup Racers delivered until now. (The cars attending Seat Leon Eurocup 2015 and TCR Series championships are nowadays updated, if any doubt, see the checklist below). This update includes the following:

- Optimized engine ECU map.
- Improvement in the Launch Control System release time.
- Pit-Limiter.
- AIM MXG open configuration.

To obtain these upgrades the following is needed:

- Engine ECU mapping update. (Seat Sport)
- Steering wheel firmware update. (Seat Sport)
- AIM MXG firmware + configuration update. (Seat Sport)
- Alternator LIN-Bus wire disconnection. (Client)
- Disconnect the BTS wire. (Client)
- **"T" brake union and brake switch** assembly. (Client)
- Extra wiring for the brake switch (only chassis #1 to #40). (Client)

\*All the modifications must be done simultaneously. All of them are interconnected with each other and the car will not run properly if something is missing.

Cars to be updated checklist



## LEON CUP RACER 2015 TECHNICAL INFO

In the following checklist are shown the chassis numbers with elements to be updated. If the chassis number is not in the checklist it means that it has been already updated. (x = to be updated)

Chassis #	Engine ECU	Volante	AIM MXG
#02	x	x	x
#06	x	x	x
#10	x	x	x
#14	x	x	x
#15	x	x	x
#19	x	x	x
#22	x	x	x
#24	x	Updated	Updated
#25	x	x	x
#26	x	Updated	Updated
#28	x	Updated	Updated
#30	x	x	x
#31	x	x	x
#32	x	x	x
#33	x	Updated	Updated
#36	x	x	x
#37	x	Updated	Updated
#38	x	x	x
#40	x	Updated	Updated
#41	x	Updated	Updated
#44	x	Updated	Updated
#45	x	x	x
#46	x	x	x
#47	x	x	x
#51	x	x	x
#52	x	x	x
#53	x	x	x
#54	x	Updated	Updated
#55	x	Updated	Updated
#56	x	Updated	Updated
#57	x	Updated	Updated
#58	x	Updated	Updated
#60	x	x	x
#61	x	x	x
#67	x	Updated	Updated
#68	x	x	x
#69	x	x	x
#71	x	Updated	Updated



## LEON CUP RACER 2015 TECHNICAL INFO

#75	x	x	x
#76	x	x	x
#77	x	x	x
#78	x	Updated	Updated
#84	x	Updated	Updated
#85	x	Updated	Updated
#86	x	Updated	Updated
#87	x	Updated	Updated
#88	x	Updated	Updated