

Explanation of Maintenance Section

This new section has been added to TIS to enable the Technicians and Service Advisors to obtain the most commonly used information in one section.

Contents:

VIN Identification Chart

Chart gives a breakdown of the 17 digit VIN of Chevrolet vehicles. Enables you to identify important information such as Engine type, Transaxle type, Body Style etc.

PDI Sheet

A list of the PDI sheets for the current Chevrolet range.

Quick Reference Chart

Chart give a list of commonly used specifications of the current range of Chevrolet vehicles, this includes Torque Figures, Tyre Pressures, Fluid Types and Capacities

Scheduled Maintenance Times

Chart gives a list of maintenance items of the current Chevrolet range. The chart includes the items and the schedule of replacement.

Labour Times of Service and Commonly Replaced Items

Chart gives a list of labour times of service and commonly replaced items of the current Chevrolet range.

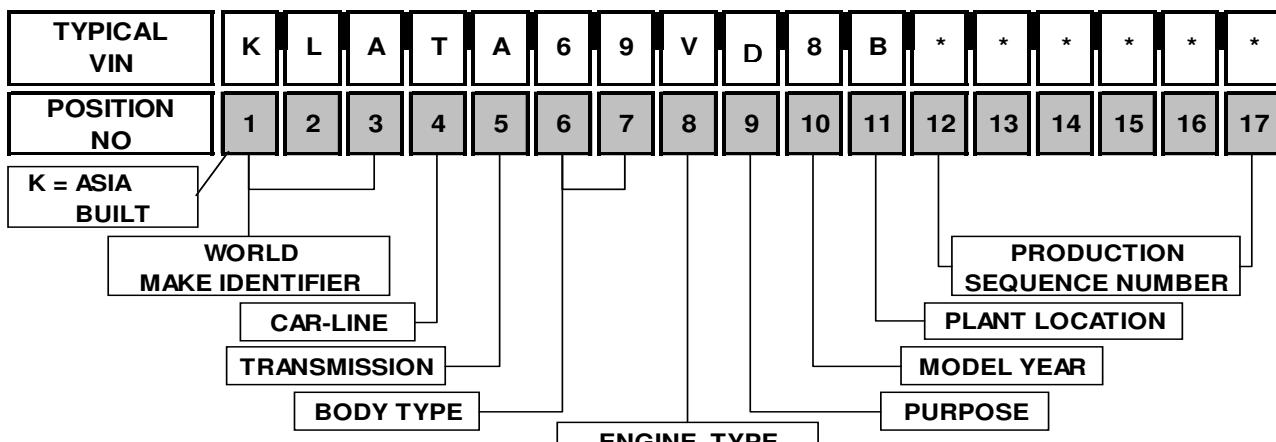
Field Actions

An explanation of Field Actions, including how to record them in the Owner's Manual



EUROPE TYPE (ALL VEHICLE) VEHICLE IDENTIFICATION NUMBER SYSTEM

[Option code : GMK → IDY, RPO → VNW, VOG]



1~3.WORLD MAKE IDENTIFIER		
KLA : GMKorea		
1)	K : ASIA	
2)	L : KOREA	
<u>3)</u>	<u>TRADE NAME</u>	<u>GMK / RPO</u>
A	: DAEWOO	(KLA) (XKC) / (BMG)
1	: CHEVROLET	(KL1) (XKA) / (Y9Y)

4. CAR-LINE	
M	: M100/ M300 Series
T	: T100/ T300 Series
J	: J100/ J300 Series
V	: V100/ V300 Series
U	: U100 Series
Y	: J309 (JMPV7)
K	: M200 Series
S	: T200 Series
N	: J200 Series
L	: V200 Series
C	: C100 Series

5. TRANSMISSION

- F** : FWD (Forward Wheel Drive), MT
- A** : FWD (Forward Wheel Drive), AT
- M** : RWD (Rear Wheel Drive), MT
- R** : RWD (Rear Wheel Drive), AT
- G** : AWD (All Wheel Drive) , MT
- D** : AWD (All Wheel Drive) , AT

6~7. BODY STYLE

- 08 : 2-Door Hatchback
- 69 : 4-Door Notchback, 4-Windows
- 19 : 4-Door Notchback, 6-Windows
- 26 : All Purpose Window-4door (Liftgate)-C100
- 48 : 4-Door Hatchback, 4-Windows
- 68 : 4-Door Hatchback, 6-Windows
- 35 : 4-Door Station Wagon
- 75 : 4-Door Multi-Purpose Vehicle

9. PURPOSE

- 9** : EEC 09 (Euro-5) [NE9]
- J** : EEC 05 (Euro-4) [NT4]
- 1** : EEC 00 (Euro-3) [NT3]
- E** : EEC 96 (Euro-2) [NT2] & Other Emission Level

10. MODEL YEAR	
9	: 2009
A	: 2010
B	: 2011
C	: 2012
D	: 2013
E	: 2014
F	: 2015
G	: 2016

11. PLANT LOCATION

8. ENGINE TYPE					
VIN CODE	OPT. CODE	DISP.	CYL.	CAM TYPE	FUEL SYS.
0	LA2	1.0L	L4	SOHC	MPFi
1	LMT	1.0L	L4	DOHC	MPFi
2	LTD	2.0L	L850	DOHC	MPFi
3	L79	1.8L	L4(F 2)	DOHC	MPFi
3	LDC	1.2L	L4(Gen3)	DOHC	MPFi
4	LBF	0.8L	L3	SOHC	MPFi
4	LE5	2.4L	L850	DOHC	MPFi
5	2HO	1.8L	L4(Gen-3)	DOHC	MPFi
5	LFW	3.0L	HF V6	DOHC	SIDI
6	LXT	1.6L	L4(F 1)	DOHC	MPFi
6	LNQ	2.2L	FZ, L4, 184ps	DOHC	CRI
7	L95	1.4L	L4(F 1)	DOHC	MPFi
8	LUJ	1.4L	L4 (Turbo)	DOHC	MPFi
9	LNQ	2.2L	FZ, L4, 163ps	DOHC	CRI
9	LAP	2.2L	L4, VVT	DOHC	MPFi
A	LBJ	1.4L	L4	SOHC	MPFi
B	LDA	1.8L	L4(F 1)	DOHC	MPFi
B	LDD	1.4L	L4(Gen3)	DOHC	MPFi
C	LF1	3.0L	HF V6	DOHC	MPFi
D	LMU	1.2L	L4(B12D)	DOHC	MPFI
E	LXV	1.6L	L4(Gen3)	DOHC	MPFi
E	LDE	1.6L	F1 1.6, L4, VIM	DOHC	MPFi
F	LD9	2.4L	L4 (F 2)	DOHC	MPFi
F	LUV	1.4L	L4 (Turbo)	DOHC	MPFi
F	LDD	1.4L	F0 1.4, L4(Gen3)	DOHC	MPFi
F	LD9	2.4L	L4 (F 2) /KL7	DOHC	MPFi
G	LU1	3.2L	HF V6	DOHC	MPFi
G	LDV	1.3L	L4, 55KW	DOHC	Diesel
J	LAF	2.4L	L4, VVT	DOHC	MPFi
K	LBM	2.0L	L6	DOHC	MPFi
L	LBK	2.5L	L6	DOHC	MPFi
L	LUD	1.7L	1.7L, L4, VGT, 96KW	DOHC	Diesel
M	LBN	2.0L	L4	DOHC	LPI
N	LCU	1.4L	L4	DOHC	MPFi
R	LLW	2.0L	L4, 110KW	SOHC	CRDI
R	LSF	1.3L	L4, 95HP	DOHC	Diesel
T	LY4	1.2L	L4(T4)	SOHC	MPFi
U	LMN	2.0L	L4, 88KW	SOHC	Diesel
U	LDE	1.6L	L4, VIM	DOHC	MPFi
V	LC5	1.19L	L4	DOHC	MPFi
V	LFN	1.2L	B1.2, L4, Gen2	DOHC	MPFI
W	LDT	1.4L	L4(Gen3)	DOHC	MPFi
X	LWD	1.2L	F0 1.2 detuned	DOHC	MPFi
Y	LV8	1.5L	L4(F 1)	SOHC	MPFi
Y	LNP	2.0L	L4, 110KW	DOHC	Diesel
Z	L34	2.0L	L4(F 2)	DOHC	MPFi



CHEVROLET PRE-DELIVERY INSPECTION

CHEVROLET

Vehicle Model:	Owners Name:	
Vehicle Identification Number:	Vehicle Registration Number:	
Engine Number:	Colour:	
Colour Code:	Date:	
CHECK, INSPECT AND/OR PERFORM THE FOLLOWING OPERATIONS. REFER TO TIS		REMARKS
<input type="checkbox"/> Ensure vehicles battery is fully charged. 1. Engine compartment, Check engine compartment for components which may be loose; kinked or pinched vacuum hoses or electrical connections and for any other missing or disconnected components. Check to assure that hoses and electrical wires are properly routed to provide sufficient clearance with adjacent moving or hot parts. <input type="checkbox"/> Observe the movement or freedom of movement of linkages, valves and other components. <input type="checkbox"/> Check for unusual noises within the engine compartment. <input type="checkbox"/> Visually inspect for seepage and leaks at hoses, pipe connections, seals, gaskets and plugs. Check power steering gear, lines and hoses for leaks and clearance with adjacent panels, moving or hot parts. Tighten clamps and connectors as necessary. <input type="checkbox"/> Test the engine cooling system. <input type="checkbox"/> Check all fluid levels; engine oil, transmission oil, power steering oil, battery, brake and cooling system. Add as required <input type="checkbox"/> Check throttle linkage for freedom at wide open and closed throttle. <input type="checkbox"/> Check auxiliary belts		
2. Body-Accessories	<i>Check operation of all interior and exterior lighting</i>	
<input type="checkbox"/> Headlights operation and aim (Adjust as required) <input type="checkbox"/> Hazard warning lights <input type="checkbox"/> Stop light <i>Check operation of all standard and optional accessories;</i> <input type="checkbox"/> Front dome/interior lamp <input type="checkbox"/> Operation of door locks <input type="checkbox"/> Instrument panel gauge operation <input type="checkbox"/> Outside rear view mirrors <input type="checkbox"/> Instrument illumination control switch <input type="checkbox"/> Horn switch <input type="checkbox"/> Engine hood release lever <input type="checkbox"/> Audio equipment function test <input type="checkbox"/> Sunglasses holder <input type="checkbox"/> Check tool kit and jack	<input type="checkbox"/> License plate lights <input type="checkbox"/> Turn signal lights <input type="checkbox"/> Instrument panel lights, including warning lights <input type="checkbox"/> Check and adjust clock <input type="checkbox"/> Headlamp levelling switch <input type="checkbox"/> Door windows <input type="checkbox"/> Rear window demister switch <input type="checkbox"/> Seats <input type="checkbox"/> Tailgate release lever <input type="checkbox"/> Rear wiper and washer operation <input type="checkbox"/> Tilt-able steering column <input type="checkbox"/> Check locking wheel key	<input type="checkbox"/> Position lights <input type="checkbox"/> Additional turn signal lights <input type="checkbox"/> Reverse lights <input type="checkbox"/> Tail lights <input type="checkbox"/> Glove box <input type="checkbox"/> Child safety door locks <input type="checkbox"/> Front and Rear fog light switch <input type="checkbox"/> Sun roof <input type="checkbox"/> Fuel filler door release lever <input type="checkbox"/> Front wiper and washer operation <input type="checkbox"/> Immobilizer/anti theft system <input type="checkbox"/> Cigarette lighter <input type="checkbox"/> Keyless entry
3. Under vehicle (Visually inspect vehicle undercarriage for looseness, missing components and line routing, clipping and fluid leaks. Tighten clamps, couplings and connectors as necessary)		
<input type="checkbox"/> Steering gear and linkage <input type="checkbox"/> Fuel system <input type="checkbox"/> Front and rear suspension <input type="checkbox"/> Tyres and pressures inc spare	<input type="checkbox"/> Brake system <input type="checkbox"/> Exhaust system for proper alignment and clearance <input type="checkbox"/> Check wheel nut torque	<input type="checkbox"/> Proper tie rod clamp position <input type="checkbox"/> Front drive shafts <input type="checkbox"/> Wheel stud and flange nuts <input type="checkbox"/> Check axles and transmission fluid level
4. Road Test (Road test on a route with road conditions permitting the proper evaluation of squeaks and rattles. During this test, check the following items for correct operation and function);		
<input type="checkbox"/> Seat belts <input type="checkbox"/> Horn <input type="checkbox"/> Steering (wheel centre position and handling) <input type="checkbox"/> Brakes, including parking brake adjustment if required <input type="checkbox"/> Road wheel balance, vibration <input type="checkbox"/> Operation of windscreen wiper and washer for pattern, speed and parking position, adjust washer if required. <input type="checkbox"/> Engine and transmission performance during acceleration, deceleration, idle, cruising and gear change. <input type="checkbox"/> Squeaks and rattles-correct minor ones which can be eliminated by the tightening of loose nuts or bolts, or by applying lubricant.	<input type="checkbox"/> Free play of brake and clutch pedals <input type="checkbox"/> Throttle controls operation <input type="checkbox"/> Options and accessories <input type="checkbox"/> Steering column ignition lock	<input type="checkbox"/> Instruments and gauges <input type="checkbox"/> Wind noise <input type="checkbox"/> Heater and air conditioning <input type="checkbox"/> warning light
5. Appearance (To be carried out with valet) (Inspect condition and perform detail operation)		
<input type="checkbox"/> Remove exterior protective shipping materials <input type="checkbox"/> Wash vehicle <i>Check for proper assembly, fit and retention of parts and components;</i>		
<input type="checkbox"/> Bumpers <input type="checkbox"/> Mouldings <i>Exterior finish</i> <input type="checkbox"/> Detail clean up <i>Interior trim and carpets clean as required. Inspect</i>	<input type="checkbox"/> Sill plates <input type="checkbox"/> Paint inspection	<input type="checkbox"/> Emblems <input type="checkbox"/> Hand polish <input type="checkbox"/> Seats <input type="checkbox"/> Headliner <input type="checkbox"/> Interior mouldings' and trim for fitment and appearance

Complete necessary paperwork and stamp service book

Customer Signature

Quick Ref: Torque Figures

ITEM CARLINE	Matiz	Spark	Kalos/Aveo	Aveo (T300)	Lacetti
Wheel Nuts / Bolts	90 - 110 Nm	120 Nm	120 Nm	140 Nm	100 Nm
Oil Drain Plug	30 - 40 Nm	40 Nm	1.2: 40Nm 1.4: 9 Nm	14 Nm	Petrol: 35 Nm Diesel: 30 - 40 Nm
Oil Filter	12 - 16 Nm	14 Nm	1.2: 14Nm 1.4: 25 Nm	25 Nm	Petrol: 15 Nm Diesel: 25 Nm
Spark Plug	20 - 30 Nm	27 Nm	25 Nm	25 Nm	25 Nm
Rotor Bolts	65 Nm	4 Nm	4 Nm	9 Nm	4 Nm
Calliper Mounting Bolts	95 Nm	95 Nm	95 Nm	100 Nm	Front: 95 Nm Rear: 56 Nm
Calliper Pin Bolts	26 Nm	28 Nm	27 Nm	See TIS	27 Nm
Brake Hose Coupling Bolt	Front Discs: 26 Nm Rear Drums: 16 Nm	Front Discs: 40 Nm Rear Drums: 18 Nm	Front Discs: 40 Nm Rear Drums: 16 Nm	See TIS	Front Discs: 40 Nm Rear Discs: 32 Nm Rear Drums: 16 Nm
Brake Calliper Bleed Valve	6 Nm	8.5 Nm	6 Nm	See TIS	8 Nm

Quick Ref: Torque Figures

ITEM CARLINE	Cruze	Orlando	Epica	Captiva (C100)	Captiva (C140)
Wheel Nuts / Bolts	140 Nm	140 Nm	110 Nm	125 Nm	140 Nm
Oil Drain Plug	1.6 LXT: 35 Nm 1.6 LXV/1.8: 14 Nm Diesel: 30 - 40 Nm	Petrol: 14 Nm Diesel: 25 Nm	30 - 40 Nm	2.4: 18 Nm 3.2: 25 Nm Diesel: 30 - 40 Nm	2.4: 25 Nm 3.0: 25 Nm Diesel: 14 Nm
Oil Filter	1.6 LXV/1.8: 25 Nm Diesel: 25 Nm	25 Nm	Petrol: 12 - 16 Nm Diesel: 25 Nm	Diesel: 25 Nm	2.4: 22Nm 3.0: 25 Nm Diesel: 25 Nm
Spark Plug	25 Nm	25 Nm	20 - 30 Nm	2.4: 25 Nm 3.2: 18 Nm	2.4: 20 Nm 3.0: 18 Nm
Rotor Bolts	7 Nm	7 Nm	4 Nm	8 Nm	8 Nm
Calliper Mounting Bolts	Front 15": 100 Nm + 60° - 75° Front 16": 150 Nm + 45° - 60° Rear: 100 Nm + 60° - 75°	Front: 150 Nm + 45° - 60° Rear: 100 Nm + 60° - 75°	Front: 95 Nm Rear: 45 Nm	Front: 170 Nm Rear: 100 Nm	Front: 170 Nm Rear: 100 Nm
Calliper Pin Bolts	28 Nm	28 Nm	Front: 27 Nm Rear: 31 Nm	44 Nm	44 Nm
Brake Hose Coupling Bolt	40 Nm	40 Nm	Front: 40 Nm Rear: 32 Nm	44 Nm	44 Nm
Brake Calliper Bleed Valve	17 Nm	17 Nm	6 Nm	6 Nm	6 Nm

Quick Ref: Tyre Pressures

Carline	Tyre Size	Wheel Dimension	PSI		kPa	
			Front	Rear	Front	Rear
Matiz	145/70 R13	4.5J x 13 (Steel)	30 (30)*	30 (34)*	207 (207)*	207 (234)*
	155/65 R13	4.5J x 13 (Alloy)				
	155/70 R13	4.5J x 13 (Alloy)				
Matiz Temporary	105/80 D13	3.5J x 13 (Steel)	60		414	
Spark	155/80 R13	4.5J x 13 (Steel)	32 (34)*	32 (34)*	221 (234)*	221 (234)*
	155/70 R14	4.5J x 14 (Steel)				
	155/70 R14	4.5J x 14 (Alloy)				
	165/60 R15	5J x 15 (Alloy)				
Kalos/Aveo	155/80 R13	5.0J x 13 (Steel)	30	30	207	207
	185/60 R14	5.5J x 14 (Alloy/Steel)				
	185/55 R15	6.0J x 15 (Alloy/Steel)				
Aveo (T300)	185/75 R14	n/a	35 (35) Eco: 39	35 (42) Eco: 38	240 (240) Eco: 270	240 (290) Eco: 260
	195/65 R15	n/a	35 (35) Eco: 43	35 (45) Eco: 38	240 (240) Eco: 300	240 (310) Eco: 260
	205/55 R16	n/a	35 (35) Eco: 39	35 (45) Eco: 38	240 (240) Eco: 270	240 (310) Eco: 260
	205/50 R17	n/a	35 (35) Eco: 39	35 (38) Eco: 38	240 (240) Eco: 270	240 (260) Eco: 260
Aveo Temporary (T300)	n/a	n/a	60	60	60	60

* Denotes tyre pressure with full load

Quick Ref: Tyre Pressures

Carline	Tyre Size	Wheel Dimension	PSI		kPa	
			Front	Rear	Front	Rear
Lacetti	175/70 R14	5.5J x 14 (Alloy/Steel)	30	30	207	207
	185/65 R14	5.5J x 14 (Alloy/Steel)				
	195/55 R15	6J x 15 (Alloy/Steel)				
Cruze	205/50 R16	6.5J x 16 (Alloy/Steel)	32	32	221	221
	205/60 R16	6.5J x 16 (Alloy/Steel)				
	215/50 R17	7J x 17 (Alloy)				
	225/50 R17	7J x 17 (Alloy)				
Cruze Temporary	n/a	6.5J x 16 (Steel)	61		421	
Orlando	205/65 R15	n/a	32	32	221	221
	205/60 R16	n/a	32	32	221	221
	215/50 R17	n/a	32	32	221	221
Orlando Temporary	n/a	n/a	61		421	
Epica	205/65 R15	6.0J x 15 (Alloy/Steel)	29	29	200	200
	205/60 R16	6.0J x 16 (Alloy)				
	215/50 R17	7.0J x 17 (Alloy)				
Epica Temporary	125/70 D16	4T x 16 (Steel)	60		414	
Captiva (C100)	215/70R 16	6.5J x 16 (Alloy/Steel)	30 (33)*	30 (35)*	207 (228)*	207 (241)*
	235/60R17	7J x 17 (Alloy)				
	235/55R18	7J x 18 (Alloy)				
Captiva Temporary (C100)	T155/90 R16	4T x 16 (Steel)	60	60	414	414
	215/70 R16	6.5J x 16 (Steel)				
Captiva (C140)	235/60R17	7J x 17 (Alloy)	35 (35) Eco: 38	35 (41) Eco: 38	240 (240)* Eco: 260	240 (280)* Eco: 260
	235/55R18	7J x 18 (Alloy)				
	235/50R19	7J x 19 (Alloy)				
Captiva Temporary (C140)	T155/90 R16	4T x 16 (Steel)	60	60	420	420

* Denotes tyre pressure with full load

Quick Ref: Capacities

ITEM CARLINE	Matiz		Spark		Aveo (T25X)		Aveo (T300)		
	Engine	Capacity	Engine	Capacity	Engine	Capacity	Engine	Capacity	
Engine Oil (Including Filter)	0.8	2.7 L	ALL	3.75 L	1.2D	3.75 L	1.2	3.75 L	
	1.0	3.2 L			1.4D	4.5 L	1.3 DSL	3.5 L	
							1.4	4.0 L	
							1.6	4.5 L	
Engine Coolant	0.8	4.0 L	ALL	4.7 L	1.2D	5.2 L	1.2	4.7 L	
	1.0	4.2 L			1.4D	6.3 L	1.3 DSL	6.6 L	
							1.4	6.0 L	
							1.6	5.6 L	
MT Fluid	ALL	2.1 L	ALL	2.1 L	1.2D	2.1 L	1.2	1.6 L	
					1.4D	1.8 L	1.4	1.6 L	
							1.3 DSL (LSF) (M27)	1.9 L	
							1.3 DSL ECO	1.6 L	
AT Fluid	0.8	4.78 L	n/a		1.4D	5.87 L +/- 0.2 L	1.4	7.5 L	
							1.6		

Quick Ref: Capacities

ITEM CARLINE	Lacetti		Cruze		Orlando		Epica			
	Engine	Capacity	Engine	Capacity	Engine	Capacity	Engine	Capacity		
Engine Oil (Including Filter)	1.4	3.75 L	1.6	4.5 L	1.8	5.6 L	2.0	6.4 L		
	1.6	3.75 L	1.8	4.5 L			2.5	6.4 L		
	1.8	3.75 L	2.0 DSL	6.0 L	2.0 DSL	7.5 L	2.0 DSL	6.2 L		
	2.0 DSL	6.2 L								
Engine Coolant	1.4	7.2 L	1.6	6.3 L	1.8	6.3 L	ALL	8 L		
	1.6	7.2 L	1.8	6.3 L						
	1.8	7.5 L	2.0 DSL	10 L	2.0 DSL	10 L				
	2.0 DSL	8.0 L								
MT Fluid	Petrol	1.8 L	Petrol	1.8 L	1.8	1.8 L	Petrol	1.6 L		
	Diesel	2.1 L	Diesel	2.1 L	2.0 DSL	1.9 L	Diesel	2.1 L		
AT Fluid	1.6	5.77 L +/- 0.20 L	ALL - Fluid Change	4 - 6 L	All	8 L	2.0	8.16 L +/- 0.12 L		
	1.8	6.90 L +/- 0.20 L	ALL - Valve Body Removal	5 - 7 L			2.5	8.16 L +/- 0.12 L		
	2.0 DSL	6.94 L +/- 0.15 L	ALL - Overhaul	8 - 8.5 L			2.0 DSL	8.66 L +/- 0.12 L		

Quick Ref: Capacities

ITEM CARLINE	Captiva (C100)		Captiva (C140)	
	Engine	Capacity	Engine	Capacity
Engine Oil (Including Filter)	2.4	4.7 L	2.4	4.7 L
	3.2	6.7 L	3.0	5.7 L
	2.0 DSL	6.2 L	2.2 DSL	6.2 L
Engine Coolant	2.4	9.0 L	2.4	9 L
	3.2	10.0 L	3.0	10.9 L
	2.0 DSL	9.0 L	2.2 DSL	9 L
MT Fluid	FWD	2.1 L	All	2.2 L
	AWD	2.3 L		
AT Fluid	2.4	6.85 L +/- 0.15 L	2.4 AWD	6.7 L
	3.2	6.85 L +/- 0.15 L	3.0 & 2.2 DSL	7.8 L
	2.0 DSL	7.11 L +/- 0.15 L		

Quick Ref: Fluid and Lubrications

M300 SPARK	1.0 DOHC	1.2 DOHC
Engine Oil	ACEA-A3/B3, API SM Down to -20'C: 10W-30, 10W-40 Down to -25'C: 5W-30, 5W-40 -25'C and below: 0W-30, 0W-40	ACEA-A3/B3, API SM Down to -20'C: 10W-30, 10W-40 Down to -25'C: 5W-30, 5W-40 -25'C and below: 0W-30, 0W-40
Manual Transmission Oil	SAE 75W 85W	SAE 75W 85W
Automatic Transmission Oil	N/A	N/A
Power Steering Oil	DEXRON®-VI	DEXRON®-VI
Brake Fluid	DOT4	DOT4
Anti-Freeze	Organic acid type long life coolant (LLC) antifreeze	Organic acid type long life coolant (LLC) antifreeze

Quick Ref: Fluid and Lubrications

T200 / T250 KALOS / AVEO	1.2 SOHC	1.4 DOHC / SOHC
Engine Oil	API SM (ILSAC GF-IV) grade SAE 5W-30, Hot area : SAE 10W-30	API SM (ILSAC GF-IV) grade SAE 5W-30, Hot area : SAE 10W-30
Manual Transmission Oil	SAE 75W-85W	SAE 75W-90
Automatic Transmission Oil	N/A	ESSO JWS 3309 or TOTAL FLUID III G
Power Steering Oil	DEXRON®-IID	DEXRON®-IID
Brake Fluid	DOT 3 or DOT 4	DOT 3 or DOT 4
Anti-Freeze May 2006 onwards	Dex-Cool Coolant / GM extended life coolant * Do not mix types of coolant Ref: OSB06-1D-047	Dex-Cool Coolant / GM extended life coolant * Do not mix types of coolant Ref: OSB06-1D-047
Anti-Freeze Up to May 2006	Green Silicate Coolant	Green Silicate Coolant

Quick Ref: Fluid and Lubrications

T300 AVEO	1.2 DOHC (LDC)	1.2 DOHC (LWD)	1.4 DOHC (LDD)
Engine Oil	Dexos2 5W30	Dexos2 5W30	Dexos2 5W30
Manual Transmission Oil	Castrol BOT 402	Castrol BOT 402	Castrol BOT 402
Automatic Transmission Oil	N/A	N/A	DEXRON VI®
Power Steering Oil	DEXRON VI®	DEXRON VI®	DEXRON VI®
Brake Fluid	DOT 4	DOT 4	DOT 4
Anti-Freeze	Dex-Cool Coolant	Dex-Cool Coolant	Dex-Cool Coolant

Quick Ref: Fluid and Lubrications

T300 AVEO	1.6 DOHC (LDE)	1.3 DOHC DIESEL (LDV)	1.3 DOHC DIESEL (LSF)
Engine Oil	Dexos2 5W30	TBC	TBC
Manual Transmission Oil	SAE75W90	TBC	TBC
Automatic Transmission Oil	DEXRON VI®	TBC	TBC
Power Steering Oil	DEXRON VI®	DEXRON VI®	DEXRON VI®
Brake Fluid	DOT 4	DOT 4	DOT 4
Anti-Freeze	Dex-Cool Coolant	Dex-Cool Coolant	Dex-Cool Coolant

Quick Ref: Fluid and Lubrications

<u>J300 CRUZE</u>			
<u>Engine Oil</u>			
Engine	Oil Change Interval	Grade	Viscosity
Gasoline (1.6 DOHC / 1.8 DOHC)	1 year / 30,000km	ACEA A3/B3 or GM-LL-A-025	Down to -25'C: 5W-30 or 5W-40 -25'C and below: 0W-30 or 0W-40
Gasoline (1.6 DOHC) RUSSIA	1 year / 10,000km	ACEA A3/B3 or ACEA A3/B4 or API SM	Down to -15'C: 15W-30 or 15W-40 Down to -20'C: 10W-30 or 10W-40 Down to -25'C: 5W-30 or 5W-40 -25'C and below: 0W-30 or 0W-40
Diesel	1 year / 15,000km	ACEA C3	Down to -25'C: 5W-40 -25'C and below: 0W-40
<u>Other Fluids</u>			
	Engine / Transmission Type	RPO Code	Specification
Engine Coolant	16XE (S200)	LXT	DEX - COOL
Manual Transmission	16XER (FAM1GEN3)	LXV	DEX - COOL
	18XER	2H0	DEX - COOL
	L850 (24YH)	LAF	~
	DIESEL	LLW	DEX - COOL
	D16-5	MFHH	SAE75W90 - ISU Chemicals
	D20-5	MSA	~
Automatic Transmission	D33-5	MFV	SAE75W90 - ISU Chemicals
	M32-6	MZO	~
	6T30	MH9	DEXRON-VI
	6T40	MH8	DEXRON-VI
Brake Fluid	6T45	MH7	DEXRON-VI
	~	~	DOT4
Power Steering Fluid	~	~	DEXRON-VI

Quick Ref: Fluid and Lubrications

J309 <u>ORLANDO</u>	1.8 (2HO)	2.0 (LNP)
Engine Oil	Dexos2 5W30	Dexos2 5W30
Manual Transmission Oil	TOTAL TRANSMISSION FA 75W90	TOTAL TRANSMISSION FA 75W90
Automatic Transmission Oil	DEXRON VI®	DEXRON VI®
Power Steering Oil	DEXRON VI®	DEXRON VI®
Brake/Clutch Fluid	Super DOT4 or DOT4+	Super DOT4 or DOT4+
Anti-Freeze	GM6277M	GM6277M

Quick Ref: Fluid and Lubrications

C100 CAPTIVA	2.4 DOHC	3.2 DOHC	2.0 SOHC DIESEL
Engine Oil	API SL (ILSAC GF-III) grade SAE 5W-30 Hot area: SAE 10W-30	GM B 040 2095 SAE OW-30 (ACEA A3)	5W40 (ACEA C3)
Manual Transmission Oil	SAE 75W-90	N/A	SAE 75W-90
Automatic Transmission Oil	N/A	JWS 3309 US ATF	JWS 3309 US ATF
Power Steering Oil	DEXRON® III, DEXRON®II D	DEXRON® III, DEXRON®II D	DEXRON® III, DEXRON®II D
Brake/Clutch Fluid	DOT 4	DOT 4	DOT 4
Anti-Freeze	Dex-Cool Coolant / GM extended life coolant * Do not mix types of coolant Ref: OSB06-1D-047	Dex-Cool Coolant / GM extended life coolant * Do not mix types of coolant Ref: OSB06-1D-047	Dex-Cool Coolant / GM extended life coolant * Do not mix types of coolant Ref: OSB06-1D-047
Diff Carrier Oil	N/A	Synthetic hypoid 75W-90	Synthetic hypoid 75W-90
Transfer Case Oil	N/A	Synthetic hypoid 75W-90	Synthetic hypoid 75W-90

Quick Ref: Fluid and Lubrications

C140 CAPTIVA	2.4 DOHC	3.0 DOHC	2.2 DOHC DIESEL
Engine Oil	Dexos2 5W30	Dexos2 5W30	Dexos2 5W30
Manual Transmission Oil	TOTAL TRANSMISSION FA 75W90	N/A	TOTAL TRANSMISSION FA 75W90
Automatic Transmission Oil	DEXRON VI®	DEXRON VI®	DEXRON VI®
Power Steering Oil	DEXRON VI®	DEXRON VI®	DEXRON VI®
Brake/Clutch Fluid	DOT 4	DOT 4	DOT 4
Anti-Freeze	Dex-Cool Coolant	Dex-Cool Coolant	Dex-Cool Coolant
Diff Carrier Oil	N/A	Synthetic Gear Oil 75W-90	Synthetic Gear Oil 75W-90
Transfer Case Oil	N/A	Synthetic Gear Oil 75W-90	Synthetic Gear Oil 75W-90

Scheduled Maintenance Times

Inspection, Service, Care and Maintenance

A new scheduled maintenance strategy was introduced for 2011 Model Year Chevrolet vehicles. These can be identified by the VIN – 10th digit should be 'B' or later.

All vehicles are to have the scheduled maintenance carried out at 15,000km (10,000miles) or 1 Year. – Whichever occurs first?

Any vehicle equipped with oil life monitoring should follow the above timing unless the warning lamp, indicator or code indicates that the service is required sooner. If the oil life monitor indicates that a service is required and it has been 10 months or more from the previous maintenance, then the relevant maintenance should also be carried out. If not an oil and filter change should be performed.

There is a specific maintenance plan for high mileage users that changes the scheduled Maintenance to 30,000km (20,000 miles) or 1 Year. Before this can be used on a customer's vehicle it must be approved by the OSS Head Office Aftersales department.

Explanation of Service Instructions

1, Replace engine oil and filter.

The correct engine oil must always be used; this includes both the Quality grade and the viscosity. Please refer to the Fluids & Lubricants Chart for the latest specification.

2, Inspect for any leaks or damage.

A full visual vehicle check must be made for any leaks or damage. This must include but not be limited to; loose, corroded, bulging, missing, signs of wear, cracked, contamination, etc.

3, Inspect engine air filter.

The engine air filter must be checked for signs of contamination and replaced as necessary, any debris in and around the filter and the ducting should be removed.

4, Inspect tyres for inflation pressures and wear.

The tyres inflation pressures must be checked and corrected and the overall tyre condition should also be checked. Any defects such as cracks, bulges, uneven wear, and excessive wear must be reported to the customer and if applicable a tyre rotation should be considered.

5, Inspect brake system.

The brake system should be checked for correct operation and condition. Current wear of brake components must be reported to the customer.

6, Inspect engine coolant and windshield washer fluid levels and add fluid as needed.

The engine coolant level should be checked, any loss can indicate a leak. The antifreeze properties of the engine coolant should also be checked to ensure that the vehicle will operate in the local conditions and be free from corrosion. The windshield washer fluid level should be checked and corrected as appropriate using suitable windshield washer fluid.

7, Inspect suspension and steering components.

The suspension and steering components must be checked for correct operation and condition.

8, Inspect wiper blades and operation of exterior lighting.

The wiper blades and the exterior lighting must be checked for correct operation and condition.

9, Inspect drive belts.

The drive belts must be inspected for signs of wear and damage.

10, Perform any required additional services – see applicable section.

The additional items must be checked to see if due to the vehicle's age and mileage any additional items require maintenance.

11, Check for Field Actions.

A thorough check for outstanding Field Actions must be made. All Field Actions carried out must be recorded in the vehicle's Service Guide, the Job Card and a claim must be made in the warranty system.

12, Replace brake fluid.

The correct brake fluid must always be used. Please refer to the Fluids & Lubricants Chart for the latest specification.

13, Inspect engine cooling system.

The engine cooling system must be checked for correct operation and condition.

14, Inspect restraint system components.

The restraint system must be checked for correct operation and condition.

15, Inspect powertrain and driveline components.

The powertrain and driveline components must be checked for correct operation and condition.

16, Lubricate body components.

Body components should be lubricated using a suitable lubricant to ensure correct operation.

Models	Maintenance Interval
All	Every 1 year / 15,000km (whichever occurs first)

Maintenance I -- Use Maintenance **I** for the first service or if Maintenance **II** was performed previously

Maintenance II -- Use Maintenance **II** if the previous service performed was Maintenance **I**.

For vehicles equipped with an oil change lamp - If the oil change lamp illuminates and it has been 10 months or more from the previous maintenance, then the relevant maintenance should also be carried out.

For diesel, replace when code number 82 is displayed on DIC (Driver Information Centre).

All Vehicle Guide

No	Service	Maintenance I	Maintenance II
1	Replace engine oil and filter.	R	R
2	Inspect for any leaks or damage.	I	I
3	Inspect engine air filter.	I	I
4	Inspect tyres for inflation pressures and wear.	I	I
5	Inspect brake system.	I	I
6	Inspect engine coolant and windshield washer fluid levels and add fluid as needed.	I	I
7	Inspect suspension and steering components.	I	I
8	Inspect wiper blades and operation of exterior lighting	I	I
9	Inspect drive belts.	I	I
10	Perform any required additional services – see applicable section.	I	I
11	Check for Field Actions.	I	I
Maintenance 2 – perform all services described in Maintenance 1, plus the following			
12	Replace Brake Fluid.		R
13	Inspect engine cooling system.		I
14	Inspect restraint system components.		I
15	Inspect powertrain and driveline components.		I
16	Lubricate body components.		I

no	Description	Spark	Aveo	Aveo T300
17	Replace Pollen Filter	15,000 km / 1 years	15,000 km / 1 years	60,000km/ 2 years
18	Replace Air Filter	Every 60,000km / 4 years	Every 45,000km / 3 years	60,000km / 2 years
19	Replace Spark Plugs	Every 30,000km / 2 years	1.2DOHC - Every 30,000km / 2 years	60,000km / 4 years
			1.4DOHC – Every 60,000km / 4 years	
20	Replace ignition cable	Exc ESC Every 45000km / 3 years	1.2DOHC - every 45,000km / 3 years	N/A
21	Replace Petrol Fuel Filter	N/A	45,000km / 3 years	N/A
22	Replace Diesel fuel filter	N/A	N/A	60,000km / 2 years
23	Replace engine coolant	Every 240,000km / 5 years	Every 240,000km / 5 years	Every 240,000km / 5 years
24	Replace manual transmission oil	After 15,000km / 1 year and then every 30,000km / 2 years	1.2DOHC After 15,000km / 1 year and then every 30,000km / 2 years	N/A
25	Replace automatic transmission oil	N/A	Inspect every 15,000km / 1 year	Normal conditions : every 150,000km(100,000 miles)
			Oil only needs replacement if discoloured or excessive odour	Severe conditions : every 75,000km(50,000 miles)
26	Replace auxiliary belt	N/A	1.4DOHC - Stretch – Every 90,000km / 10 Years	Stretch : every 90,000km / 10 years
27	Replace timing belt	N/A	Every 150,000km / 10 years	Every 150,000km / 10 years
28	Replace timing chain	Every 240,000km / 10 years	Every 240,000km / 10 years	Maintenance free
29	Inspect Valve Clearance – Adjust if required	Every 150,000km / 10 years	Every 150,000km / 10 years	Every 150,000km / 10 years

no	Description	Cruze	Orlando	Captiva
17	Replace Pollen Filter	45,000km / 2 years	45,000km / 2 years	15,000 km / 1 years
18	Replace Air Filter	Every 60,000km / 4 years	Every 60,000km / 4 years	Every 60,000km / 4years
19	Replace Spark Plugs	1.6 Euro 4 - Every 30,000km 2 years	Every 60,000km / 4 years	Every 150,000km / 10 Years
		1.6 Euro 5 / 1.8 - Every 60,000km / 4 years		
20	Replace ignition cable	1.6 Euro 4 – Every 45,000km / 3 years	N/A	N/A
21	Replace Petrol Fuel Filter	N/A	N/A	N/A
22	Replace Diesel fuel filter	60,000km / 2 years	60,000km / 2 years	60,000km / 2 years
23	Replace engine coolant	Every 240,000km / 5 years	Every 240,000km / 5 years	Every 240,000km / 5 years
24	Replace manual transmission oil	N/A	N/A	N/A
25	Replace automatic transmission oil	Severe conditions every 75,000km	Severe conditions every 75,000km	Severe conditions every 75,000km
		Normal conditions every 150,000km	Normal conditions every 150,000km	Normal conditions every 150,000km
26	Replace auxiliary belt	1.6 Euro 5 / 1.8 - Stretch – Every 90,000km / 10 years	Petrol - Stretch – Every 90,000km / 10 years	
27	Replace timing belt	1.6 Euro 4 - Every 60,000km / 4 years	Petrol – Every 150,000km / 10 years	N/A
		1.6 Euro 5 / 1.8 – Every 150,000km / 10 years		
		Diesel - Severe conditions every 60,000km / 6 years		
		Normal conditions every 150,000km / 6 years		
28	Replace timing chain	Euro 5 diesel Every 240,000km / 10 years	Diesel - Every 240,000km / 10 years	Every 240,000km / 10 Years
29	Inspect Valve Clearance – Adjust if required	1.6 Euro 5 / 1.8 - Every 150,000km / 10 years	Petrol - Every 150,000km / 10 years	

Footnotes

Maintenance Item	Note
1	If driving under severe conditions: short distance driving, extensive idling or driving in dusty condition, engine oil and the filter may require replacement more often.
2	Fluid loss in any vehicle system could indicate a problem. The system should be inspected and repaired and the fluid level checked. Add fluid if needed.
3&17	If driving regularly in dusty conditions, inspect the filter more frequently If driving regularly in dusty conditions, the filter may require replacement more often.
5	Visually inspect brake lines and hoses for, binding, leaks, cracks, chafing, etc. Inspect disc brake pads for wear and discs for surface condition. Inspect drum brake linings/shoes for wear or cracks. Inspect other brake parts, including drums, wheel cylinders, Callipers, parking brake, etc.
7	Visually inspect front and rear suspension and steering system for damage, loose or missing parts or signs of wear. Inspect power steering components for, binding, cracks, chafing, etc.
8	Inspect wiper blades for wear, cracking, or contamination. Clean the windshield and wiper blades, if contaminated. Replace wiper blades that are worn or damaged.
12	If driving under severe conditions: driving in hilly or mountainous terrain, or towing a trailer frequently, brake fluid may require replacement more often.
13	Visually inspect hoses and have them replaced if they are cracked, swollen, or deteriorated. Inspect all pipes, fittings, and clamps; replace with genuine parts if needed. To help ensure correct operation, a pressure test of the cooling system and pressure cap and cleaning the outside of the radiator and air conditioning condenser is recommended.
14	Make sure the safety belt reminder light and safety belt assemblies are working correctly. Look for any other loose or damaged safety belt system parts. If you see anything that might keep a safety belt system from doing its job, have it repaired. Ensure any torn or frayed safety belts are replaced.
16	Lubricate all key lock cylinders, door hinges and latches, hood hinges and latches, and trunk lid hinges and latches. More frequent lubrication may be required when exposed to a corrosive environment. Applying silicone grease on weather-strips with a clean cloth will make them last longer, seal better, and not stick or squeak.
General for auto transmission	Change automatic transmission fluid and filter if the vehicle is mainly driven under one or more of these conditions: <ul style="list-style-type: none">• In heavy city traffic where the outside temperature regularly reaches 90°F (32°C) or higher.• In hilly or mountainous terrain.• When doing frequent trailer towing.• Uses such as found in taxi, police, or delivery service.
General for belts & 26	Visually inspect belt for fraying, excessive cracks, or obvious damage. Replace belt if necessary. 1.2 DOHC – If the belt has been replaced – it must be inspected and adjust as necessary within 6 months / 5000km
General all	Check all systems for interference or binding and for damaged or missing parts. Replace parts as needed. Replace any components that have excessive wear.
Tyre condition & inflation pressure	Tyre condition should be inspected before driving and tyre pressure should be checked each time you fill your fuel tank or at least once a month using a tyre pressure gauge.
Wheel alignment	If necessary, rotate and balance wheels.

Recommended time for each service including scheduled additional services

Model / Service	1st Service	2nd Service	3rd Service	4th Service	5th Service
	Maintenance 1	Maintenance 2	Maintenance 1	Maintenance 2	Maintenance 1
Spark	0.8	1.1	1.0	1.1	0.9
Aveo 1.2	0.8	0.9	1.0	0.9	1.1
Aveo 1.4	0.7	0.8	0.8	0.9	1.0
Cruze Petrol	0.6	0.8	0.6	1.0	0.7
Cruze Petrol Euro 4 (LPG)	0.6	0.9	0.7	1.0	0.7
Cruze Diesel	0.8	1.1	0.8	1.2	1.1
Orlando Petrol	0.6	0.8	0.6	1.0	0.7
Orlando Diesel	0.8	1.1	0.8	1.2	1.1
Captiva Petrol 2.4	0.7	0.8	0.7	0.9	0.8
Captiva Diesel	0.8	1.2	0.8	1.3	1.1

※The above times quoted are Recommended ONLY. Extra time may be required for any adjustments required as part of normal vehicle maintenance.

We recommend that 0.1 (6min) can be added for road test after maintenance, if required

Additional Times – Minutes and Seconds

Model / Operation	Spark	Aveo	Cruze / Orlando Petrol	Cruze / Orlando Petrol Euro4(LPG)	Cruze / Orlando Diesel	Captiva Petrol 2.4	Captiva Diesel
Replace - Front Wiper Blades - Each Blade	00:00:31	N/A	00:00:28	00:00:28	00:00:28	00:00:28	00:00:28
Replace - Rear Wiper Blades	00:00:44	N/A	N/A	N/A	N/A	N/A	N/A
Replace - Front Side Light Bulb – One	00:01:54	N/A	00:02:03	00:02:03	00:02:03	00:08:45	00:08:45
Replace - Front Headlamp Bulb – One	00:01:15	N/A	00:01:45	00:01:45	00:01:45	00:08:45	00:08:45
Replace - Brake Light Bulb – One	00:02:07	N/A	00:01:49	00:01:49	00:01:49	00:02:03	00:02:03
Replace - Tail Light Bulb – One	00:02:07	N/A	00:01:49	00:01:49	00:01:49	00:02:03	00:02:03
Replace - Rear Brake Shoes/pads	00:13:48	N/A	00:11:31	00:11:31	00:11:31	00:09:50	00:09:50
Replace - Rear Brake Drums/discs	00:02:32	N/A	00:24:23	00:24:23	00:24:23	00:22:26	00:22:26
Replace - Front Brake Pads	00:08:22	N/A	00:09:19	00:09:19	00:09:19	00:10:50	00:10:50
Replace - Front brake discs	00:22:58	N/A	00:24:31	00:24:31	00:24:31	00:21:58	00:21:58
Adjust handbrake	00:00:51	N/A	N/A	N/A	N/A	N/A	N/A

Field Actions

Types of Field Action:

Product Safety Recall

Issues that fail to fulfil safety related aspects.
Vehicle should be proactively reworked.

Non-Compliance Recall

Issues failing to conform to official standards / regulations.
Vehicles should be proactively reworked.

Product Emission Recall

Issues failing to conform to official emissions standards.
Vehicles should be proactively reworked.

Customer Satisfaction Campaign

Customer annoying issues which are related to Non Safety, Walk Home, High Cost or Reliability.
Vehicles should be proactively reworked.

Service Update

Potential customer annoying issues which are related to Non Safety, OBD Compliance, Software, Customer Satisfaction background with low frequency.
Vehicles should be proactively reworked.

Special Coverage

Customer annoying issues which relate to Durability, High Cost or Non Safety.
Reactive Action – Only on customer complaint.

Technical Service

Issues difficult to diagnose with customer annoying aspects.
Reactive Action – Only on customer complaint.

Recording a Field Action:

It is essential that Field Actions are recorded.

The relevant section in the Service Guide must be completed.

The work must be recorded on the Job Card.

The work must be claimed for in the warranty system.

Service Guide

Chevrolet approved repairer should complete the following:

(Bulletin) Number:

Date:

Km/mile:

Signature:

Authorised Repairer's Stamp:

ADDITIONAL RECORDS

Number:	Number:	Number:
Date:	Date:	Date:
KM/Mile	KM/Mile	KM/Mile
Signature of Authorised Repairer representative	Signature of Authorised Repairer representative	Signature of Authorised Repairer representative
Authorised Repairers Stamp	Authorised Repairers Stamp	Authorised Repairers Stamp
Number:	Number:	Number:
Date:	Date:	Date:
KM/Mile	KM/Mile	KM/Mile
Signature of Authorised Repairer representative	Signature of Authorised Repairer representative	Signature of Authorised Repairer representative
Authorised Repairers Stamp	Authorised Repairers Stamp	Authorised Repairers Stamp