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## ***General disclaimer Prins Autogassystemen BV:***

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Based on practical experiences, Prins has compiled a list of vehicles in which problems with valves/valve seats (excessive wear) may occur at a low mileage (<100,000 km). This list is updated regularly. To keep this list up-to-date, Prins is asking their clients to report any valve/valve seat problems (service@prins.eu).

A base d'expériences sur le marché, Prins a établi une liste des véhicules susceptibles d'avoir des problèmes avec les soupapes/sièges de soupape à un kilométrage réduit (<100.00 km) (usure excessive). Cette liste est mise à jour régulièrement. Afin de tenir cette liste à jour, Prins demande ses clients de bien vouloir signaler des problèmes de soupapes/sièges de soupape (service@prins.eu).

Op basis van ervaringen uit de markt heeft Prins een lijst samengesteld waarin voertuigen staan vermeld die bij een geringe kilometerstand (<100.000 km) problemen met kleppen/klepzittingen kunnen krijgen (overmatige slijtage). Deze lijst wordt regelmatig bijgewerkt. Om deze lijst up-to-date te houden vraagt Prins zijn klanten om klep/klepzitting problemen te melden (service@prins.eu).

Auf der Grundlage von Erfahrungen aus dem Markt hat Prins eine Liste mit Fahrzeugen zusammengestellt, die bei einer geringen Kilometerzahl (< 100.000 km) Probleme mit den Ventilen/Ventilsitzen bekommen können (übermäßiger Verschleiß). Diese Liste wird regelmäßig aktualisiert. Damit diese Liste ständig aktuell ist, bittet Prins ihre Kunden, Ventil/Ventilsitz-Probleme zu melden (service@prins.eu).

Brand	Model	Year of construction	Engine code	Engine capacity	Edition	Problem description	Solution	Remarks	Information source (Prins or customer)
Audi	Different types		BSE	1600 cc		Excessive wear of valves/seats		Cylinderhead Mexico	Customer
Cadillac	Escalade	2000>		6000 cc 16V		Excessive wear of valves/seats			Customer
Chevrolet	All models	1998>				Excessive wear of valves/seats			Customer
Chevrolet		1998>	Vortec			Excessive wear of valves/seats		Even problems with flash lube	Customer
Citroen	Berlingo	1998>	LFX	1800 cc 8V		Excessive wear of valves/seats			Customer
Citroen	Xantia	1998?	LFX	1800 cc 8V		Excessive wear of valves/seats			Customer
Citroen	C1	2005>		1000 cc 12V		Excessive wear of valves/seats			Customer
Daewoo	Tacuma	2000>		2000 cc 8V		Excessive wear of valves/seats			Prins
Dacia	Logan	2006>		1400 cc 8V		Excessive wear of valves/seats			Customer
Dacia	Logan	2006>	K7M710	1600 cc 8V		Excessive wear of valves/seats			Customer
Daihatsu	Terios	2001>	K3-VE	1300 cc 16V		Excessive wear of valves/seats			Customer
Daihatsu	YRV	2001>	K3-VE	1300 cc 16V		Excessive wear of valves/seats			Customer
Dodge	Ram 1500/2500	2002>		4700 cc 16V		Excessive wear of valves/seats			Customer
Dodge	Caliber	2006>		1800 cc 16V		Excessive wear of valves/seats			DCNL
Dodge	Caliber	2006>		2000 cc 16V		Excessive wear of valves/seats			DCNL
Dodge	Nitro	06-2007>		3700 cc		Excessive wear of valves/seats		After 40.000 km problems with valves/seats while driving only on petrol. Not jet LPG experience, but this will be worse.	DCNL
Ford	Focus	1998>		1800 cc		Excessive wear of valves/seats			Customer
Ford	Fiesta	11-2002>	A9JA	1300 cc 8V		Excessive wear of valves/seats		After 20.000 km	Customer
Ford	Mondeo	1998>		1800 cc		Excessive wear of valves/seats			Customer
Ford	Ka			1250 cc		Excessive wear of valves/seats			Customer
Ford	Explorer	1993-1998		4000 cc 12V		Excessive wear of valves/seats		Exhaust valves	Customer
Ford	Windstar	1995		3000 cc 12V		Excessive wear of valves/seats		Exhaust valves	Customer
Honda	All models	2003>				Excessive wear of valves/seats			Customer
Hyundai	Sonata	2005>	G4KC	2400 cc 16V		Excessive wear of valves/seats			Customer
Hyundai	Trajet	2000-2004	G4JP	2000 cc 16V		Excessive wear of valves/seats			Prins
Hummer	All models					Excessive wear of valves/seats			Customer
Infinity	FX35	2003>		3500 cc 24V		Excessive wear of valves/seats			Customer
Jeep	Grand Cherokee	1999-2005		4700 cc 16V		Excessive wear of valves/seats			Customer/Importer
Lexus	RX300	2001>	1MZ-FE	3000cc 24V		Excessive wear of valves/seats			Customer

# Overview valve/seat problems <100.00 km

Mazda	Mazda 6	2002>	All ford engines		Excessive wear of valves/seats		All Ford engines!!!	Customer
Mazda	Tribute	2001-2004	MOT.YF	2000cc 16V	Excessive wear of valves/seats			Customer
Mazda	121			1250 cc	Excessive wear of valves/seats			Customer
Mercedes	A-class	2005>	All engines	1500/1700/2000/T (8V)	Excessive wear of valves/seats			Customer
Mercedes	B-class	2005>	All engines	1500/1700/2000/T (8V)	Excessive wear of valves/seats	Fit special LPG cylinderhead original Mercedes		Customer
Mercedes	Vaneo	2004-2005		1900 cc	Excessive wear of valves/seats			Customer
Mitsubishi	Outlander	2001>		2400 cc 16V	Excessive wear of valves/seats			Importer
Mitsubishi	Grandis	2004>		2400 cc 16V	Excessive wear of valves/seats			Customer
Nissan	Maxiam QX	1995>		3000 cc	Excessive wear of valves/seats			Customer
Nissan	Primera	1998>	All engines		Excessive wear of valves/seats			Customer
Nissan	X-Trail	2003>		2000 cc 16V	Excessive wear of valves/seats			Customer
Nissan	350 Z	2004-		3500 cc 24V	Excessive wear of valves/seats			Customer
Nissan	Murano	2004-		3500 cc 24V	Excessive wear of valves/seats			Customer
Opel	All models	2004>	Z14XEP	1400 cc 16V	Excessive wear of valves/seats			Prins
Opel	All models	2004>	Z16XEP	1600 cc 16V	Excessive wear of valves/seats			Prins
Opel	All models	2004>	Z16XE1	1600 cc 16V	Excessive wear of valves/seats			Prins
Opel	All models	2004>	Z16XER	1600 cc 16V	Excessive wear of valves/seats			Prins
Opel	All models	2004>	Z18XER	1800 cc 16V	Excessive wear of valves/seats			Prins
Peugeot	406	1998>	LFX	1800 cc 8V	Excessive wear of valves/seats			Customer
Peugeot	Boxer	1995>	XU10J2/RFW	2000 cc 8V	Excessive wear of valves/seats			Peugeot NL
Peugeot	Partner	1996>	LFX	1800 cc 8V	Excessive wear of valves/seats			Customer
Peugeot	107	2005>		1000 cc 12V	Excessive wear of valves/seats			Customer
Pontiac	Trans Sport	1993-1997	Quad 4	2300 cc 16V	Excessive wear of valves/seats			Customer
Porsche	Cayenne	2004>		3200 cc 24V	Excessive wear of valves/seats			Customer
Porsche	Cayenne S	2004>		4500 cc 32V	Excessive wear of valves/seats			Customer
Renault	Laguna	1994-1998		2000 cc 8V	Excessive wear of valves/seats			Prins
Renault	Espace	1994-1998		2000 cc 8V	Excessive wear of valves/seats			Customer
Renault	Espace IV	2002-		3500 cc 24V	Excessive wear of valves/seats			Customer
Renault	Vel Satis	2002-		3500 cc 24V	Excessive wear of valves/seats			Customer
Renault	Megane 2	2002-		1600 cc 16V	Excessive wear of valves/seats	inlet+exhaust valves		Customer
Renault	Kangoo	1998-		1400 cc 8V	Excessive wear of valves/seats	Inlet valves		Customer
Saab	9- versions	1998>	16V		Excessive wear of valves/seats			Customer
Seat	Alhambra	2000>	ATM	2000 cc 8V	Excessive wear of valves/seats			Prins
Skoda	Fabia	2000>	AZL	2000 cc 8V	Excessive wear of valves/seats		inlet valves 120.000 km	Customer
Smart	Forfour	2004>		1100/1300/1500 cc (12V)	Excessive wear of valves/seats	(2 reports from NL)		Customer
Suzuki	Liana	2004>		1600 cc 16V	Excessive wear of valves/seats			Customer
Toyota	All models	1996>		All models	Excessive wear of valves/seats			Customer
Toyota	Corolla	2004>	VVTI			Problems even with flash lube		Customer
Toyota	Aygo	2005>		1000 cc 12V	Excessive wear of valves/seats			Customer
Volkswagen	Sharan	2000>	ATM	2000 cc 8V	Excessive wear of valves/seats	Fit special CNG cylinderhead original Volkswagen		Customer
Volkswagen	Touareg	2003>		3200 cc 24V	Excessive wear of valves/seats			Customer
Volkswagen	T5		AXA	2000 cc 8V	Excessive wear of valves/seats	Fit special CNG cylinderhead original Volkswagen	Cylinderhead Mexico	Customer
Volkswagen	Phaeton	2002>	BKL	3200 cc 24V	Excessive wear of valves/seats			Customer
Volkswagen	Golf	2005>	BUB	3200 cc 24V	Excessive wear of valves/seats			Customer
Volkswagen	Different types		BSE	1600 cc	Excessive wear of valves/seats		Cylinderhead Mexico	Customer

## Overview valve/seat problems <100.00 km

Volvo	XC90	2003>	Turbo	2500 cc turbo		Excessive wear of valves/seats		Customer
Volvo	S60/V70	2000>	Turbo	2400 cc turbo		Excessive wear of valves/seats		Customer
Volvo	S40/V50	2003>		1800 cc		Excessive wear of valves/seats	Problems even with flash lube	Customer

# Overview injector module problems

Mogelijke problemen hangen af van gebruikte type injectiemodule. New wiring loom 180/700.. : Replace injector simulator to the old version 091/0145 (4/8 cyl.) or 091/0155 (6cyl.).

Neuer Kabelbaum 180/700.. : Der Injector Modul ersetzen nach der alte Version 091/0145 (4/8 Zyl.) oder 091/0155 (6Zyl.)

Brand	Model	Year of construction	Engine code	Engine capacity	Problem with module type:	Problem description	Solution	Remarks	Information source (Prins or customer)
Alfa	GTV turbo			2000 cc	180/700XX		Fit "old" module 091/0145	Not more information known	Customer
Citroën	C5 V6			3000 cc	180/700XX	Not every car has a problem!	Fit "old" module 091/0155	Not more information known	Customer
Chevrolet	Chevy V8		(12,7 Ohm)	5700 CC	180/700XX		Fit "old" module 091/0145 (2x)	No more information known	Customer
Chrysler	Le Baron turbo	1989				Peak&Hold injector signal petrol	No solution	Not possible to convert with VSI	Customer
Dodge	Dakota V6	2006 model		3700 CC		Check engine "open circuit"	Parallel 370 Ohm resistor		Prins
Infiniti	FX45 V8			4500 cc		Voltage drops during starting under 6 Volt. Car won't start on petrol with a cold engine (small battery: 60 Ah)	Fit "old" module 091/0145	Bigger battery can also be a solution	
Fiat	Punto	2006	1,4 70 Kw	1400 cc		Petrol in system above 4500 RPM	Fit "old" type module 091/0145		Customer
Ford	Scorpio	1999	2.0i	2000 cc			Fit "old" type module 091/0145		Customer
Hyundai	Coupe	2006		1600 cc		Shaking on high revs (little bit of petrol injected while driving on LPG)	Fit "old" type module 091/0145		Prins
Jaguar	V8	1998					Fit "old" type module 091/0145		
Jaguar	XJ and S	1997		3200 cc and 4000 cc		Check engine on injector circuit			Customer
Jeep	Cherokee	<1991				Peak&Hold injector signal petrol	No solution	Not possible to convert with VSI	Cutsomer
Kia	Carnival	2002		2000 cc			Fit "old" type module 091/0145		Customer
Mercedes	E240	2000		2400 cc		Check engine	Fit "old" module 091/0155		Customer
Mercedes	E klasse	2002	V8	5000 cc		Drives well on LPG, but on petrol the engine stalls at 4500 rpm	Fit "old" module 091/0145 (2x)		Customer
Mercedes	M111	1993	R4	2000 cc and 2200 cc			Fit "old" type module 091/0145		Customer
Mercedes	M104	1993	R6				Fit "old" type module 091/0155		Customer
Mercedes	M112		V6				Fit "old" type module 091/0155		Customer
Mercedes	M113		V8				Fit "old" type module 091/0145 (2x)		Customer
Mitsubishi	Lancer	1998	(15,8 Ohm)			Check engine	Fit "old" type module 091/0145		Customer
Mitsubishi	Spacewagon	1998	(15,8 Ohm)			Check engine	Fit "old" type module 091/0145		Customer
Mitsubishi	Sigma	1992				Check engine	Fit "old" type module 091/0145		Customer
Mitsubishi	General	All models <1999				Check engine	Fit "old" type module 091/0145		Customer
Renault	Espace	2006	2,0 turbo	2000 cc		Disturbance caused by the ignition at high RPM. Petrol consumption by driving on LPG.	Fit "old" type module 091/0145	Problem is still in investigation	Prins
Renault	Espace			3500 cc		Check engine	Fit "old" type module 091/0145		Customer
Renault	Velsatis			3500 cc		Check engine	Fit "old" type module 091/0145		Customer
Renault	Espace	1991		2200 cc		Peak&Hold injector signal petrol	No solution	Not possible to convert with VSI	Customer
Seat	Alhambra	2004		2000 cc		Check engine	Fit "old" type module 091/0145		Customer
Volvo	960	1994		3000 cc		Car does not run on LPG (wrong emulation value for petrol ECU)	Fit "old" type module 091/0155		Customer
Volvo	740	1992				Check engine?	Fit "old" type module 091/0145		Customer

Volvo	850	1994		2000 cc and 2500 cc		Check engine?	Fit "old" type module 091/0145		Customer
Volvo	V70		T6	2900 cc		Check engine?	Fit "old" type module 091/0155		Customer
Volvo	460/480 turbo			1700 cc		Ckeck engine?	Fit "old" type module 091/0145		Customer
Volkswagen	Golf	2004		2000 cc		Check engine	Fit "old" type module 091/0145		Customer

Brand	Model	Year of construction	Engine code	Engine capacity	Edition	Problem description	Solution	Remarks	Information source (Prins or customer)
Cadillac	CTS	2006	3.2 V6				Filling the tank to 3/4.	Saab problem	Prins
Chevrolet	Avalanche	2007	5.3 V8				-	DTC P0460	Customer
Chryslers	all models	> 1999	-		USA/Canada edition		-	DTC No fuel consumption over miles	Customer
Citroen	C3	?	?		?	Level indication goes down during driving on LPG until tank is empty. Restarting does not reset the level indication.	AEB 392 module type P		AEB
Citroen	Xsara Picasso	> 2002	?		?	Level indication goes down during driving on LPG until tank is empty. Restarting does not reset the level indication.	AEB 392 module type P		AEB
Ford	F150	2003	5.4 V8 Supercharger				-	DTC P0460. DTC becomes active after a driving a large distance	Customer
Hyundai	Sonata		2.4 (4cil) 16v G4KC		Australian edition	Level indication goes down during driving on LPG until tank is empty. Restarting does not reset the level indication.	-		Customer
Mercedes	B-class	2006	all engines		-	Level indication goes down during driving on LPG until tank is empty. Restarting does not reset the level indication.	Mercedes B reset module		Prins
Mercedes	A-class	2005	all engines		-	Level indication goes down during driving on LPG until tank is empty. Restarting does not reset the level indication.	-		Prins
Mercedes	ML	2001-2002	?		?	Level indication goes down during driving on LPG until tank is empty. Restarting does not reset the level indication.	AEB 391 module type R		AEB
Mercedes	Vito 119	2007	3.2 V6		Europe	Level indication goes down during driving on LPG until tank is empty. Restarting does not reset the level indication.	-		Customer
Peugeot	206	> 2002	?		?	Level indication goes down during driving on LPG until tank is empty. Restarting does not reset the level indication.	AEB 392 module type P		AEB
Peugeot	307	?	?		?	Level indication goes down during driving on LPG until tank is empty. Restarting does not reset the level indication.	AEB 392 module type P		AEB
Peugeot	406	> 2002	?		?	Level indication goes down during driving on LPG until tank is empty. Restarting does not reset the level indication.	AEB 392 module type P		AEB
Peugeot	407	2005	1.8 16v		Europe	Level indication goes down during driving on LPG until tank is empty. Restarting does not reset the level indication.	-		Prins

Renault	Espace	> 2003	?		?	Level indication goes down during driving on LPG until tank is empty. Restarting does not reset the level indication.	AEB 392 module type P		AEB
Renault	Espace	2001-2002	?		?	Level indication goes down during driving on LPG until tank is empty. Restarting does not reset the level indication.	AEB 391 module type R		AEB
Renault	Avantime	?	?		?	Level indication goes down during driving on LPG until tank is empty. Restarting does not reset the level indication.	AEB 391 module type R		AEB
Renault	Vel Satis	?	?		?	Level indication goes down during driving on LPG until tank is empty. Restarting does not reset the level indication.	AEB 391 module type R		AEB
Saab	97x	2006	5.3 V8			Level indication does not go down during driving on LPG but after a while the indication will be switched off. No reset afterstarting, no error code will become active.	Filling the tank to 3/4.	Saab problem	Prins



Brand	Model	Year of construction	Engine code	Engine capacity	Edition	Problem description	Solution	Remarks	Information source (Prins or customer)
Ford	Mustang	2005-	V8				-	-	Customer
Ford	Freestyle	2006	3000 cc V6				-	Prins module does not work	Prins
Ford	Mavarick	2004-	duratec	110 Kw		Petrol pressure becomes too high -> bad running on petrol after switching			Customer
Jaguar		<2003	2.5 V6 / 3.0 V6 / 4.2 V8				AGS simulator: contact AGS Belgium	Not possible with Prins simulator. I.c.w. the AGS simulator, vehicle does not enter limp-mode, but it is possible that a DTC will be set.	AGS Belgium
Jaguar		>2003	2.5 V6 / 3.0 V6 / 4.2 V8				AGS simulator: contact AGS Belgium	Not possible with Prins simulator. I.c.w. the AGS simulator, vehicle does not enter limp-mode, but it is possible that a DTC will be set.	AGS Belgium
Mazda	Tribute	2007	2300 cc 16V	110 Kw		Petrol pressure becomes too high -> bad running on petrol after switching	-		
Volvo	V70 R	2003-	2.5L Turbo 220 kW				-	DTC petrol pressur range/performance. Car changes between 2 different fuel pressures.	
Volvo	XC90	2006	4.4 V8				No solution by Prins	AGS belgium has a fuel return solution. A DTC is possible. Please contact AGS for more information	

Brand	Model	Year of construction	Engine code	Engine capacity	Edition	Problem description	Solution	Remarks	Information source (Prins or customer)
Audi	A4 Avant	2003	ALT	2000 cc		Shaking during warming up phase	<a href="#">Special software icw temp simulation. See also AUD0107</a>	Results are good	Prins
Chevrolet	Trailblazer	2001-	LL8	4200 cc 24V		Bad idling behaviour / stalling	<a href="#">Special software 041/95050 and: Nylon hoses far enough inside manifold. See also CHE1007</a>	Results are good	Prins
Dodge	Dacota	2002-	6 cyl.	4000 cc		stalling after short accelerating	<a href="#">Special software icw extra MAP signal. See also DOD1006</a>	Results not bad, but Prins does not advise to convert this car	Prins
Dodge	Ram 1500 & 2500	08-2005-	8 cyl.	5700 cc Hemi		In some cases injector errors will be set in the EOBD system	<a href="#">Solder extra resistors in the wiringloom of the injection module to change the replacement resistor value</a>	Results are good	Prins
Fiat	Coupe turbo (5 cyl.)	2000	175A3	2000 cc		Shaking during accelerating and when the car goes into cut-of phase	<a href="#">Fit a turbo extension kit icw a special programmed ECU. See also FIA0207</a>	This car is very sensitive on petrol. The problem on LPG is not 100% vanished	Prins
Opel	Vectra turbo	2005>	Z20NET	2000 cc		Shaking during accelerating and when the car goes into cut-of phase.	<a href="#">Fit a turbo extension kit icw a special programmed ECU. See also OPE0207</a>	Results are good	Prins
Volkswagen	Passat	2001	AZM	2000 cc		Shaking during accelerating	<a href="#">Program the ECU that the Inj. in and Inj. out times are exactly the same. See also VOL0107</a>	Results are good	Prins
Subaru	Legacy outback	1999	EJ25	2500 cc		Shaking during accelerating	<a href="#">Program the ECU that the Inj. in and Inj. out times are exactly the same. See also SUB0307</a>	Results are good	Prins