Lancia Kappa 2.0 Sedan 1995, 107 Kw, Petrol

Technical data

Notes			Specified value	Measured value
Vehi	cle identification		n	
	No. of cylinders	Type	5/DOHC	
	Capacity (Fiscal)	cc	1998	
	Compression ratio	:1	10.0	
	Suitable for unleaded petrol		Yes	
	Minimum octane rating	RON	95	
	Ignition system	Type	Motronic	
<u> </u>	Ignition system	Description	Map-DI	
<u> </u>			Cam/ Crankshaft	
<u> </u>	Fuel system	Make	Bosch	
	Fuel System	Type	Motronic M2.10	
	Fuel System	Description	MFI-s	
	Air metering	Type	Mass	
	Combined ignition and fuel FCM		Yes	
<u> </u>	Diagnostic socket		Yes	
Ianiti	ion system			
iginu		Make	Bosch	
<u> </u>			0 221 152 067	
<u> </u>	Ignition coll	Type	11 0	
<u> </u>			0.4	
<u> </u>	Secondary resistance	Ohm	v, - 8500	
	Secondary resistance	Unin	1 2 4 5 2	
Tuni			1-2-4-3-3	
Tuni				1
	Ignition timing - basic B I DC	Engine/rpm	Not adjustable	<u> </u>
		Engine/rpm	ECM Controlled	<u> </u>
		rpm	Not adjustable	1
	Oil temperature for CO test		60	<u> </u>
	CO level at idle speed - talipipe (Cat)	Vol. % CO	0,35 Max Not adjustable	<u> </u>
	CO level at Idle speed - sample pipe	Vol. % CO	0,4±0,1	
<u> </u>	HC level at idle speed	ppm	90 Max	
<u> </u>	CO2 level at idle speed	Vol. % CO2	13 Min	
<u> </u>	O2 level at idle speed	Vol. % O2	0,1-0,5	
<u> </u>	Increased Idle speed for CO test	rpm	2500-2900	
<u> </u>		V0I. %	0,3	
-	Lambda at increased idle	Λ	0,97-1,03	
Spar	k plugs			1
	Spark plugs	Original equipment	Champion	
	Spark plug	Туре	RC7BMC	
<u> </u>	Electrode gap	mm	0,5	
<u> </u>	Spark plugs	Make	Autolite	
<u> </u>	Spark plug	Туре	APP3922	
L	Electrode gap	mm	0,9	
<u> </u>	Spark plugs	Make	Beru	
	Spark plug	Туре	14FR-6LDU	
L	Electrode gap	mm	0,8	
L	Spark plugs	Make	Champion	
L	Spark plug	Туре	RC7BMC	
L	Electrode gap	mm	0,5	
L	Spark plugs	Make	NGK	
L	Spark plug	Туре	BKR6EKC	
L	Electrode gap	mm	0,9	
Fuel	system			
	System pressure without vacuum	bar	3,0	
	RPM/TDC sensor	Ohm	774-946	
	Oxygen sensor heater	Ohm	2,5-4,5	
Serv	ice checks and adjustments			
	•			

Manufacturer: Lancia Engine code: 838A1.000 Tuned for: R-Cat

Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02 © Autodata Limited 2004 2006.10.21. V5.500- //Autodata

	Valve clearance -INLET	mm	0,38±0,04 cold	
	Valve clearance -EXHAUST	mm	0,43±0,04 cold	
	Oil pressure	bar/rpm	4,0/4000	
Lubr	icants and capacities			
	Engine oil grade - moderate climate	SAE	15W/40	
	Engine oil classification	API/ACEA	SG/A2-96	
	Engine oil grade - alternative - moderate climate	SAF	10W/30 Semi-Synth	
	Engine oil classification - alternative - moderate climate		SG/A 3-96	
			5 4	
	Coarbox oil grade	SAE	75W/00	
	Coorbox 4/5 speed	Jitroo	2.0	
	Casling system	litree	2,0	
	Cooling system	Times	8,3 DOT 0/4	
		Туре	DOT 3/4	
Tight	tening torques			1
	Cylinder head instructions			
Cylind	der head		1	
		Renew bolts	No	
	Stage 1	Tighten	40 Nm	
	Stage 2	Tighten	90°	
	Stage 3	Tighten	90°	
	Stage 4	Tighten	90°	
Other	tightening torques			
	Main bearings	Renew bolts/nuts	No	
	Main bearings	Stage 1	25 Nm	
	Main bearings	Stage 2	100°	ĺ
	Big end bearings	Renew bolts/nuts	No	ĺ
	Big end bearings	Stage 1	25 Nm+60°	
	Oil pump to cylinder block		9 Nm	
39	Sump bolts			
	Sump drain bolt		20 Nm	
	Flywheel/driveplate		160 Nm	
	Crankshaft nullev/damper		360 Nm	
	Camshaft sprocket/gear		118 Nm	
	Camshaft/rocker.cover		8 Nm	
	Inlet manifold to cylinder head		25 Nm	1
			25 Nm	
			23 Nm	
	Spark plugs		27 NM	
	Engine coolant temperature (ECT) sensor		20 NM	
	Oxygen sensor (Lambda)		50-60 Nm	
	Knock sensor (KS)		25 Nm	
	Engine oil pressure switch		22 Nm	
	Front hub		60 Nm+52°	
	Rear hub		320 Nm	
	Steering track rod end		38 Nm	
	Brake disc to hub	Front	20 Nm	
	Brake caliper carrier to hub	Front	160 Nm	
	Brake disc to hub	Rear	12 Nm	
	Brake caliper carrier to hub	Rear	55 Nm	
	ABS sensor	Front	10 Nm	
	ABS sensor	Rear	10 Nm	
	Road wheels		98 Nm	
Start	ing and charging		7	5
	Battery	V/RC(Ah)	12/90 (60)	
	Starter motor	Maka	Marelli	
	Starter motor	Tupe	F70R-12y-1 4kW	<u> </u>
		i ype	8 1	
	Maximum cranking amo	V	162-108	I
	maximum Ganning amps	A	102-130	I
	Alternator/Degulator		Marolli	

2004).21. V5.500-- /Autodata

	Alternator/Regulator	Туре	A127I	
	Alternator output at engine speed	A/V/rpm	100/14/3500	
	Voltage regulator	Туре	24TR/B	
	Regulated voltage	V	14,3-14,6	
Brake	e disc and drum dimensions			
	Minimum disc thickness - ventilated	Front	20,2 mm	
	Minimum disc thickness	Rear	9,2 mm	
	Disc runout	Front	0,15 mm	
	Disc runout	Rear	0,15 mm	
	Minimum pad thickness	Front	1,5 mm	
	Minimum pad thickness	Rear	1,5 mm	
	Handbrake travel	No. of notches	5-6	
Air co	onditioning			
	Air conditioning refrigerant	Туре	R134a	
32	Air conditioning refrigerant quantity	grams		
33	Air conditioning oil	Туре		
38	Air conditioning oil quantity	cmł		



Wheel alignment

Telephone: Fax: VAT Registration No.:

<u>Kappa 199</u>	<u>15-02</u>			
Rim size	Tyre size	Model	Front bar(psi)	Rear bar(psi)
4x15	125/90 R 15 96M		4,2 (60)	4,2 (60)
6,5x15	195/65 R 15 91V		2,2 (31)	2,2 (31)
6,5x15	205/60 R 15 91V		2,2 (31)	2,2 (31)
6,5x15	205/60 R 15 91W		2,2 (31)	2,2 (31)
6,5x16	205/55 R 16 89W		2,2 (31)	2,2 (31)
7,5x16	205/55 R 16 91W		2,2 (31)	2,2 (31)
7,5x16	215/55 R 16 91W		2,2 (31)	2,2 (31)

		Dimensions		
Notes			Specified value	Measured value
	Wheelbase	mm	2700	
	Track - front/rear	mm	1546/1527	
		Tightening torques		
Notes			Specified value	Measured value
	Tightening torque - steel wheels		98 Nm	
	Tightening torque - alloy wheels		98 Nm	
		Checking range - Front wheel	s	
Notes			Specified value	Measured value
	Load positioning		unladen	
	Toe-in (N = negative, toe-out)	mm	0 - 2	
	Toe-in	deg	0° - 0°20'	
	Toe-in	deg-1/100	0 - 0,33	
	Camber	deg	0°35'N - 1°15'N	
	Camber	deg-1/100	0,58N - 1,25N	
	Castor	deg	2°50' - 3°30'	
	Castor	deg-1/100	2,83 - 3,50	
		Setting data - Four wheels		
Notes			Specified value	Measured value
	Load positioning		unladen	
	Toe-in (N = negative, toe-out)	mm	1±1	
	Toe-in	deg	0°10'±10'	
	Toe-in	deg-1/100	0,17±0,17	
	Camber	deg	0°55'N±20'	
	Camber	deg-1/100	0,92N±0,33	
	Camber adjustment		Not adjustable	
	Castor	deg	3°10'±20'	
	Castor	deg-1/100	3,17±0,33	
	Castor adjustment		Not adjustable	
	Lock angles - max. inner	deg	37°±30'	
	Lock angles - max. inner	deg-1/100	37±0,50	
	Lock angles - max. outer	deg	32°40'	
	Lock angles - max. outer	deg-1/100	32,67	
	Rear toe-in	mm	2,5±1	
	Rear toe-in	deg	0°23'±10'	
	Rear toe-in	deg-1/100	0,38±0,17	
	Rear toe-in adjustment		\$ADJ	
	Rear camber	deg	0°45'N±20'	
	Rear camber	deg-1/100	0,75N±0,33	
	Rear camber adjustment		Not adjustable	



Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02

Timing belt replacement intervals

Important note

Important note

The intervals and procedures given are subject to alteration by the manufacturer at any time. Check the regularly updated Timing Belts section on our website to ensure that you are kept informed of any changes that may occur between issues of the Autodata CD. http://www.autodata-cd.com

Timing belt replacement intervals

The information relating to timing belt replacement intervals is additional to the main purpose of this CD, but is included to provide guidance to garages and for customer advice.

Where possible the recommended intervals have been compiled from vehicle manufacturers' information. In a few instances no recommendation has been made by the manufacturer and the decision to replace the belt must be made from the evidence of a thorough examination of the condition of the existing belt.

Apart from the visible condition of the belt, which is explained fully later in this section, there are several other factors which must be considered when checking a timing belt:

- 1. Is the belt an original or a replacement.
- 2. When was the belt last replaced and was it at the correct mileage.
- 3. Is the service history of the vehicle known.
- 4. Has the vehicle been operated under arduous conditions which might warrant a shorter replacement interval.
- 5. Is the general condition of other components in the camshaft drive, such as the tensioner, pulleys, and other ancillary components driven by the timing belt, typically the water pump, sound enough to ensure that the life of the replacement belt will not be affected.
- 6. If the condition of the existing belt appears good, can you be satisfied that the belt will not fail before the next check or service is due.
- 7. If the belt does fail, have you considered the consequences. If the engine is an INTERFERENCE type then considerable expensive damage may well be the result.
- 8. The cost of replacing a belt as part of a routine service could be as little as 5 to 10% of the repair cost following a belt failure. Make sure your customer is aware of the consequences.
- 9. If in doubt about the condition of the belt RENEW it.

Replacement Interval Guide

Replacement Interval Guide

Lancia recommend check & replace if necessary every 60,000 km and replacement every 105,000 km.

The previous use and service history of the vehicle must always be taken into account.

Check For Engine Damage

Check For Engine Damage

CAUTION: This engine has been identified as an INTERFERENCE engine in which the possibility of valve-to-piston damage in the event of a timing belt failure is MOST LIKELY to occur. A compression check of all cylinders should be performed before removing the cylinder head.

Repair Times - hrs

Repair Times - hrs

Kappa 2,0/2,4 5 Cyl. 1995-04				
Remove and install	2,45			
Remove and install - AC	2,65			

Special Tools

Special Tools

- Tensioner pulley locking pin Lancia No.1860830000.
- Camshaft locking tools Lancia No.1860819000.

Special Precautions

Special Precautions

- Disconnect battery earth lead.
- DO NOT turn crankshaft or camshaft when timing belt removed.
- Remove spark plugs to ease turning engine.
- Turn engine in normal direction of rotation (unless otherwise stated).
- DO NOT turn engine via camshaft or other sprockets.
- Observe all tightening torques.

Removal

Removal

- 1. Raise and support front of vehicle.
- 2. Remove:
 - o RH front wheel.
 - o Wheel arch liner.
- 3. Turn auxiliary drive belt tensioner pulley anti-clockwise. Use suitable spanner.
- 4. Lock tensioner pulley. Use tool No.1860830000 [1] .
- 5. Remove:
 - O Auxiliary drive belt.
 - O Engine upper torque link.
 - O Spark plug cover.
 - O Cylinder head covers.
 - O Timing belt cover [2] .
 - O Crankshaft pulley (6 bolts) [3] .
- 6. Turn crankshaft to TDC on No.1 cylinder [4] .
- 7. Ensure both camshafts at TDC on No.1 cylinder. If not: Turn crankshaft one turn clockwise.
- 8. Remove third bearing cap from exhaust camshaft [5].
- 9. Remove fourth bearing cap from inlet camshaft [7].
- NOTE: Mark bearing caps before removal for identification.
- Fit locking tools in place of bearing caps [6] & [8] . Tool No.1860819000.
 NOTE: Locking tools are marked 'exhaust' and 'inlet'. Ensure locking tools aligned with respective cam profiles to prevent damage.
- 11. Slacken tensioner sprocket nut [9]. Turn tensioner sprocket anti-clockwise to release tension on belt. Lightly tighten nut.
- 12. Remove timing belt.

Manufacturer: Lancia	Model: Kappa 2,0	© Autodata Limited 2004
Engine code: 838A1.000	Output: 107 (145) 6100	2006.10.21.
Tuned for: R-Cat	Vear: 1994-02	V5.500- /Autodata

Installation

Installation

- 1. Ensure crankshaft at TDC on No.1 cylinder. Ensure timing marks aligned [4] .
- 2. Ensure locking tools located correctly in camshafts [6] & [8] .
- 3. Slacken bolts of each camshaft sprocket [10] .
- 4. Fit timing belt in following order:
 - Crankshaft sprocket.
 - O Guide pulley.
 - O Exhaust camshaft sprocket.
 - o Inlet camshaft sprocket.
 - Water pump sprocket.
 - O Tensioner sprocket.
- 5. Ensure marks on belt aligned with marks on sprockets [11] .
- 6. Slacken tensioner sprocket nut [9] .
- 7. Push on tensioner sprocket to pre-tension belt [12] . Lightly tighten nut.
- 8. Tighten bolts of each camshaft sprocket [10] . Tightening torque: 28 Nm.
- 9. Remove locking tools from camshafts [6] & [8] .
- 10. Fit bearing caps in correct locations. Tighten bolts to 15 Nm.
- 11. Turn crankshaft two turns in normal direction of rotation.
- 12. Ensure timing marks aligned [4].
- 13. Slacken tensioner sprocket nut [9] .
- 14. Tensioner sprocket should operate and marks align [13] .
- 15. Tighten tensioner sprocket nut [9] . Tightening torque: 25 Nm.
- 16. Install components in reverse order of removal.
- 17. Fit auxiliary drive belt. Remove locking pin from tensioner pulley.
- 18. Tighten crankshaft pulley bolts. Tightening torque: 28 Nm.



Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02 © Autodata Limited 2004 2006.10.21. V5.500- /Autodata

Service indicator

Switch ignition ON. Press button [A] **Fig.** <u>26994</u>. Press button [B] to reset the display. Switch ignition OFF. **Fig.** <u>26994</u>



Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02 © Autodata Limited 2004 2006.10.21. V5.500- /Autodata

Engine management pin data

c	-19 - 18 - 17 - 16 - 15 - 14 - 13 - 12 - 11 - 10 - 9 - 8 - 7 - 6 - 5 - 4 - 3 - 2 - 1
33	AD72618

Wire side

 1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19

 20
 21
 22
 23
 24
 25
 26
 27
 28
 29
 30
 31
 32
 33
 34
 35
 36
 37

 38
 39
 40
 41
 42
 43
 44
 45
 46
 47
 48
 49
 50
 51
 52
 53
 54
 55

Component/circuit description	ECM pin	Signal	Condition	Typical value	Oscilloscope setting (Suggested settings - Voltage/time per division)	Wave form
AC compressor clutch relay	32	Ĵ	Engine idling - AC OFF	11-14 V		
AC compressor clutch relay	32	ţ	Engine idling - AC ON - AC compressor ON	0-1 V		
AC refrigerant pressure switch	40			Connected pin - no test data available or random digital signal		
Battery	18	t	Ignition OFF	11-14 V		
Camshaft position (CMP) actuator relay	52	ţ	Ignition ON	11-14 V		
Camshaft position (CMP) actuator relay	52	Ĵ	Engine idling	11-14 V		
Camshaft position (CMP) actuator relay	52	Ĵ	Engine idling - accelerate briefly	0-1 V briefly		
Camshaft position (CMP) sensor	8	ţ	Engine idling		2 V/50 ms	///// 12
Camshaft position (CMP) sensor	12	\Rightarrow	Ignition ON	5 V		
Crankshaft position (CKP) sensor	48 (49)	t	Engine idling		5 V/2 ms	///// 2
Crankshaft position (CKP) sensor	49 (48)	t	Engine idling		5 V/2 ms	Reversed
Earth	2		Ignition ON	0 V		
Earth	14		Ignition ON	0 V		
Earth	19		Ignition ON	0 V		
Earth	24		Ignition ON	0 V		
Earth	42		Ignition ON	0 V		
Engine control relay	36	3	Ignition OFF	11-14 V		

Manufacturer: Lancia Engine code: 838A1.000 Tuned for: R-Cat

Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02 © Autodata Limited 2004 2006.10.21. V5.500- /Autodata

Engine control relay	36	₽	Ignition ON	0 V		
Engine control relay	37	ŧ	Ignition ON	11-14 V		
Engine coolant temperature (ECT) sensor	30	Ļ	Ignition ON	0 V		
Engine coolant temperature (ECT) sensor	45	t	Ignition ON - coolant temp. 10°C	3,5 V		
Engine coolant temperature (ECT) sensor	45	t	Ignition ON - coolant temp. 80°C	0,6 V		
Evaporative emission (EVAP) canister purge valve	5	Ĵ	Ignition ON	11-14 V		
Evaporative emission (EVAP) canister purge valve	5	Ĵ	Engine idling	11-14 V		
Evaporative emission (EVAP) canister purge valve	5	₽	Engine hot - valve operating		10 V/20 ms	<mark>∕∕√∕∕∿ 20</mark>
Fuel pump relay	3	Ĵ	Ignition ON	0-1 V briefly then 11-14 V		
Fuel pump relay	3	₽	Engine cranking	0-1 V		
Heated oxygen sensor (HO2S)	10	٢	Engine idling	0 V		
Heated oxygen sensor (HO2S)	28	ţ	Engine idling - engine hot	0,1-1 V fluctuating	0,2 V/1 sec.	///// 21
Idle air control (IAC) valve	4	Ĵ	Engine idling		5 V/5 ms	///// 25
Idle air control (IAC) valve	22	Ĵ	Engine idling		5 V/5 ms	///// 25
Ignition coil - cylinder 1	1	Ĵ	Ignition ON	11-14 V		
Ignition coil	1	Ĵ	Engine idling		5 V/2 ms	///// 33
Ignition coil - cylinder 2	20	Ĵ	Ignition ON	11-14 V		
Ignition coil	20	Ĵ	Engine idling		5 V/2 ms	///// 33
Ignition coil - cylinder 3	39	Ĵ	Ignition ON	11-14 V		
Ignition coil	39	Ĵ	Engine idling		5 V/2 ms	///// 33
Ignition coil - cylinder 4	21	Ĵ	Ignition ON	11-14 V		
Ignition coil	21	Ĵ	Engine idling		5 V/2 ms	///// 33
Ignition coil - cylinder 5	38	Ĵ	Ignition ON	11-14 V		
Ignition coil	38	Ĵ	Engine idling		5 V/2 ms	///// 33
Ignition switch	27	ŧ	Ignition ON	11-14 V		
Immobilizer control module - diagnostic link	55	⇐⇒		Connected pin - no test data available or random digital signal		
Injector 1	17	₽	Ignition ON	11-14 V		
Injector 1	17	₽₽	Engine idling - engine hot	2,5-3,5 ms	10 V/2 ms	///// 35
Injector 2	16	₽	Ignition ON	11-14 V		
Injector 2	16	₽	Engine idling - engine hot	2,5-3,5 ms	10 V/2 ms	///// 35
Injector 3	15	₽	Ignition ON	11-14 V		
Injector 3	15	₽	Engine idling - engine hot	2,5-3,5 ms	10 V/2 ms	<mark>₩₩ 35</mark>

Injector 4	35	₽	Ignition ON	11-14 V		
Injector 4	35	₽	Engine idling - engine hot	2,5-3,5 ms	10 V/2 ms	///// 35
Injector 5	34	ţ	Ignition ON	11-14 V		
Injector 5	34	ţ	Engine idling - engine hot	2,5-3,5 ms	10 V/2 ms	///// 35
Instrumentation control module/heater function control module	41			Connected pin - no test data available or random digital signal		
Instrumentation control module/heater function control module - malfunction indicator signal	51	₽		Connected pin - no test data available or random digital signal		
Intake air temperature (IAT) sensor	30	Ť	Ignition ON	0 V		
Intake air temperature (IAT) sensor	54	t	Ignition ON - 20°C	3 V		
Intake manifold air control relay - 2,4	23	₽		Connected pin - no test data available or random digital signal		
Knock sensor (KS) 1	11	Ŧ	Engine idling - accelerate briefly		50 mV/1 ms	<mark>₩₩ 38</mark>
Knock sensor (KS) 1	30	7	Engine running	0 V		
Knock sensor (KS) 2	29	ţ	Engine idling - accelerate briefly		50 mV/1 ms	///// 38
Knock sensor (KS) 2	30	۲	Engine running	0 V		
Mass air flow (MAF) sensor	7	ţ	Engine idling - engine hot	0,7-1,3 V		
Mass air flow (MAF) sensor	7	ţ	Engine idling - accelerate briefly	4,2 V briefly		
Mass air flow (MAF) sensor	26	7	Ignition ON	0 V		
Tachometer	6	Î	Engine idling	30 Hz	2 V/20 ms	///// 55
Throttle position (TP) sensor	12	Î	Ignition ON	5 V		
Throttle position (TP) sensor	30	٢	Ignition ON	0 V		
Throttle position (TP) sensor	53	ţ	Ignition ON - throttle closed	0,1-0,7 V		
Throttle position (TP) sensor	53	Ŧ	Ignition ON - throttle fully open	4-4,8 V		
Transmission control module (TCM)	43			Connected pin - no test data available or random digital signal		
Vehicle speed sensor (VSS)	9	+	Ignition ON - vehicle pushed	0 V or 11-14 V		



Ĵ	input/output signal
ţ	input signal
Î	output signal
Ĵ	ECM switched earth
٢	ECM earth circuit

Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02

Battery replacement



Immobilizer

System operation

• Arms automatically when ignition key is removed.

Programming

When

- Key remote control added or replaced.
- System malfunction.

How

NOTE: A maximum of 8 keys can be programmed. NOTE: Immobilizer LED located in centre console.

- Obtain all keys.
- Insert master key into ignition switch.
- Switch ignition ON.
- Wait for LED to extinguish.
- Switch ignition OFF.
- Carry out the following within 10 seconds:
- Remove master key.
- Insert non programmed key into ignition switch.
- Switch ignition ON.
- Wait for LED to extinguish.
- Switch ignition OFF.
- Remove key.
- Repeat above procedure to program remaining keys.
- After programming last key proceed as follows:
- Insert master key into ignition switch.
- Switch ignition ON.
- Wait for LED to extinguish.
- Switch ignition OFF.
- Switch ignition ON. Wait approximately 3 seconds.
- Ensure immobilizer LED illuminates for approximately 0,7 second and then goes out to indicate correct programming.



Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02

Remote alarm

System operation

• Pressing key lock/unlock button Fig. 1 [1] activates alarm and central locking.

Programming

When

- Key added or replaced.
- System malfunction.

How

NOTE: A maximum of 8 keys can be programmed.

- Obtain all keys.
- Distance from receiver: At least 20 cm.
- Press and hold button Fig. 2 [1].
- Check LED Fig. 2 [2] flashes.
- Press and hold lock/unlock button Fig. 2 [3] until LED [2] illuminates.
- Release button Fig. 2 [1].
- Repeat above procedure to program remaining keys.

<u>Fig. 2</u>



Diagnostic

Accessing and erasing

• The engine control module (ECM) fault memory can be accessed and erased using diagnostic equipment connected to the data link connector (DLC).

Trouble code identification

P type	Fault location	Probable cause
P0 1	Refer to EOBD trouble code table	-

EOBD codes

- All EOBD codes starting with P zero have standard meanings irrespective of vehicle make or model.
- For EOBD codes, other than those starting P zero, refer to model specific chapters.
- The following list covers all P0 codes allocated at the time of publication.



Trouble code	Fault location	Probable cause
P0000	No fault found	-
P0001	Fuel volume regulator control - circuit open	Wiring, regulator control solenoid
P0002	Fuel volume regulator control - circuit range/performance	Wiring, regulator control solenoid
P0003	Fuel volume regulator control - circuit low	Wiring short to earth, regulator control solenoid
P0004	Fuel volume regulator control - circuit high	Wiring open circuit/short to positive, regulator control solenoid
P0005	Fuel shut-off valve - circuit open	Wiring open circuit, fuel shut-off valve
P0006	Fuel shut-off valve - circuit low	Wiring short to earth, fuel shut-off valve
P0007	Fuel shut-off valve - circuit high	Wiring short to positive, fuel shut-off valve
P0008	Engine position system, bank 1 - engine performance	Mechanical fault
P0009	Engine position system, bank 2 - engine performance	Mechanical fault
P0010	Camshaft position (CMP) actuator, intake/left/front, bank 1 - circuit malfunction	Wiring, CMP actuator, ECM
P0011	Camshaft position (CMP), intake/left/front, bank 1 - timing over-advanced/system performance	Valve timing, engine mechanical fault, CMP actuator
P0012	Camshaft position (CMP), intake/left/front, bank 1 - timing over-retarded	Valve timing, engine mechanical fault, CMP actuator
P0013	Camshaft position (CMP) actuator, intake/left/front, bank 1 - circuit malfunction	Wiring, CMP actuator, ECM
nufacturer: L	ancia Model: Kappa 2,0	© Autodata Limited

Ма

P0014	Camshaft position (CMP) actuator, exhaust/right/rear, bank 1 - timing over-advanced/system performance	Valve timing, engine mechanical fault, CMP actuator
P0015	Camshaft position (CMP) actuator, exhaust/right/rear, bank 1 - timing over-retarded	Valve timing, engine mechanical fault, CMP actuator
P0016	Crankshaft position/camshaft position, bank 1 sensor A - correlation	Wiring, CKP sensor, CMP sensor, mechanical fault
P0017	Crankshaft position/camshaft position, bank 1 sensor B - correlation	Wiring, CKP sensor, CMP sensor, mechanical fault
P0018	Crankshaft position/camshaft position, bank 2 sensor A - correlation	Wiring, CKP sensor, CMP sensor, mechanical fault
P0019	Crankshaft position/camshaft position, bank 2 sensor B - correlation	Wiring, CKP sensor, CMP sensor, mechanical fault
P0020	Camshaft position (CMP) actuator, intake/left/front, bank 2 - circuit malfunction	Wiring, CMP actuator, ECM
P0021	Camshaft position (CMP), intake/left/front, bank 2 - timing over-advanced/system performance	Valve timing, engine mechanical fault, CMP actuator
P0022	Camshaft position (CMP), intake/left/front, bank 2 - timing over-retarded	Valve timing, engine mechanical fault, CMP actuator
P0023	Camshaft position (CMP) actuator, exhaust/right/rear, bank 2 - circuit malfunction	Wiring, CMP actuator, ECM
P0024	Camshaft position (CMP), exhaust/right/rear, bank 2 - timing over-advanced/system performance	Valve timing, engine mechanical fault, CMP actuator
P0025	Camshaft position (CMP), exhaust/right/rear, bank 2 - timing over-retarded	Valve timing, engine mechanical fault, CMP actuator
P0026	Intake valve control solenoid circuit, bank 1 - range/performance	Wiring, intake valve control solenoid
P0027	Exhaust valve control solenoid circuit, bank 1 - range/performance	Wiring, exhaust valve control solenoid
P0028	Intake valve control solenoid circuit, bank 2 - range/performance	Wiring, intake valve control solenoid
P0029	Exhaust valve control solenoid circuit, bank 2 - range/performance	Wiring, exhaust valve control solenoid
P0030	Heated oxygen sensor (HO2S) 1, bank 1, heater control - circuit malfunction	Wiring, HO2S, ECM
P0031	Heated oxygen sensor (HO2S) 1, bank 1, heater control - circuit low	Wiring short to earth, HO2S, ECM
P0032	Heated oxygen sensor (HO2S) 1, bank 1, heater control - circuit high	Wiring short to positive, HO2S, ECM
P0033	Turbocharger (TC) wastegate regulating valve - circuit malfunction	Wiring, TC wastegate regulating valve, ECM
P0034	Turbocharger (TC) wastegate regulating valve - circuit low	Wiring short to earth, TC wastegate regulating valve, ECM
P0035	Turbocharger (TC) wastegate regulating valve - circuit high	Wiring short to positive, TC wastegate regulating valve, ECM
P0036	Heated oxygen sensor (HO2S) 2, bank 1, heater control - circuit malfunction	Wiring, HO2S, ECM
P0037	Heated oxygen sensor (HO2S) 2, bank 1, heater control - circuit low	Wiring short to earth, HO2S, ECM
P0038	Heated oxygen sensor (HO2S) 2, bank 1, heater control - circuit high	Wiring short to positive, HO2S, ECM
P0039	Turbo/super charger bypass valve, control circuit - range/performance	Wiring, bypass valve
P0040	Oxygen sensor signals swapped, bank 1 sensor 1/bank 2 sensor 1	Wiring
· · · · · · · · · · · · · · · · · · ·		

P0041	Oxygen sensor signals swapped, bank 1 sensor 2/bank 2 sensor 2	Wiring
P0042	Heated oxygen sensor (HO2S) 3, bank 1, heater control - circuit malfunction	Wiring, HO2S, ECM
P0043	Heated oxygen sensor (HO2S) 3, bank 1, heater control - circuit low	Wiring short to earth, HO2S, ECM
P0044	Heated oxygen sensor (HO2S) 3, bank 1, heater control - circuit high	Wiring short to positive, HO2S, ECM
P0045	Turbo/super charger boost control solenoid - circuit open	Wiring, boost control solenoid
P0046	Turbo/super charger boost control solenoid - circuit range/performance	Wiring, boost control solenoid, mechanical fault
P0047	Turbo/super charger boost control solenoid - circuit low	Wiring short to earth, boost control solenoid
P0048	Turbo/super charger boost control solenoid - circuit high	Wiring short to positive, boost control solenoid
P0049	Turbo/super charger turbine - over-speed	Mechanical fault
P0050	Heated oxygen sensor (HO2S) 1, bank 2, heater control - circuit malfunction	Wiring, HO2S, ECM
P0051	Heated oxygen sensor (HO2S) 1, bank 2, heater control - circuit low	Wiring short to earth, HO2S, ECM
P0052	Heated oxygen sensor (HO2S) 1, bank 2, heater control - circuit high	Wiring short to positive, HO2S, ECM
P0053	Heated oxygen sensor (HO2S), bank 1, sensor 1 - heater resistance	Wiring, HO2S
P0054	Heated oxygen sensor (HO2S), bank 1, sensor 2 - heater resistance	Wiring, HO2S
P0055	Heated oxygen sensor (HO2S), bank 1, sensor 3 - heater resistance	Wiring, HO2S
P0056	Heated oxygen sensor (HO2S) 2, bank 2, heater control - circuit malfunction	Wiring, HO2S, ECM
P0057	Heated oxygen sensor (HO2S) 2, bank 2, heater control - heater circuit low	Wiring short to earth, HO2S, ECM
P0058	Heated oxygen sensor (HO2S) 2, bank 2, heater control - circuit high	Wiring short to positive, HO2S, ECM
P0059	Heated oxygen sensor (HO2S), bank 2, sensor 1 - heater resistance	Wiring, HO2S
P0060	Heated oxygen sensor (HO2S), bank 2, sensor 2 - heater resistance	Wiring, HO2S
P0061	Heated oxygen sensor (HO2S), bank 2, sensor 3 - heater resistance	Wiring, HO2S
P0062	Heated oxygen sensor (HO2S) 3, bank 2, heater control - circuit malfunction	Wiring, HO2S, ECM
P0063	Heated oxygen sensor (HO2S) 3, bank 2, heater control - circuit low	Wiring short to earth, HO2S, ECM
P0064	Heated oxygen sensor (HO2S) 3, bank 2, heater control - circuit high	Wiring short to positive, HO2S, ECM
P0065	Air assisted injector - range/performance problem	Air assisted injector
P0066	Air assisted injector - circuit malfunction/circuit low	Wiring short to earth, air assisted injector, ECM
P0067	Air assisted injector - circuit high	Wiring short to positive, air assisted injector, ECM
P0068	Manifold absolute pressure (MAP) sensor/mass air flow (MAF) sensor/throttle position correlation	Wiring, MAP sensor, MAF sensor, mechanical fault
P0069	Manifold absolute pressure (MAP) sensor/barometric pressure (BARO) sensor correlation	MAP sensor, mechanical fault
P0070	Outside air temperature sensor - circuit malfunction	Wiring, outside air temperature sensor, ECM
P0071	Outside air temperature sensor - range/performance	Outside air temperature sensor
ufacturer:	Lancia Model: Kappa 2,0	© Autodata Limi
ine code:	838A1.000 Output: 107 (145) 6100	200
ed for: R-(Cat Year: 1994-02	V5.500/And

P0072	Outside air temperature sensor - low input	Wiring short to earth, outside air temperature sensor, ECM
P0073	Outside air temperature sensor - high input	Wiring short to positive, outside air temperature sensor, ECM
P0074	Outside air temperature sensor - circuit intermittent	Wiring, poor connection, outside air temperature sensor, ECM
P0075	Intake valve control solenoid, bank 1 - circuit malfunction	Wiring, intake valve control solenoid, ECM
P0076	Intake valve control solenoid, bank 1 - circuit low	Wiring short to earth, intake valve control solenoid, ECM
P0077	Intake valve control solenoid, bank 1 - circuit high	Wiring short to positive, intake valve control solenoid, ECM
P0078	Exhaust valve control solenoid, bank 1 - circuit malfunction	Wiring, exhaust valve control solenoid, ECM
P0079	Exhaust valve control solenoid, bank 1 - circuit low	Wiring short to earth, exhaust valve control solenoid, ECM
P0080	Exhaust valve control solenoid, bank 1 - circuit high	Wiring short to positive, exhaust valve control solenoid, ECM
P0081	Intake valve control solenoid, bank 2 - circuit malfunction	Wiring, intake valve control solenoid, ECM
P0082	Intake valve control solenoid, bank 2 - circuit low	Wiring short to earth, intake valve control solenoid, ECM
P0083	Intake valve control solenoid, bank 2 - circuit high	Wiring short to positive, intake valve control solenoid, ECM
P0084	Exhaust valve control solenoid, bank 2 - circuit malfunction	Wiring, exhaust valve control solenoid, ECM
P0085	Exhaust valve control solenoid, bank 2 - circuit low	Wiring short to earth, exhaust valve control solenoid, ECM
P0086	Exhaust valve control solenoid, bank 2 - circuit high	Wiring short to positive, exhaust valve control solenoid, ECM
P0087	Fuel rail/system pressure too low	Fuel pump, fuel pressure regulator, fuel supply pipe blockage, mechanical fault
P0088	Fuel rail/system pressure too high	Fuel pump, fuel pressure regulator, fuel return pipe blockage, mechanical fault
P0089	Fuel pressure regulator - performance problem	Fuel pressure regulator, mechanical fault
P0090	Fuel metering solenoid - open circuit	Wiring open circuit, fuel metering solenoid, ECM
P0091	Fuel metering solenoid - short to earth	Wiring short to earth, fuel metering solenoid, ECM
P0092	Fuel metering solenoid - short to positive	Wiring short to positive, fuel metering solenoid, ECM
P0093	Fuel system leak - large leak detected	Wiring, fuel pressure sensor, mechanical fault
P0094	Fuel system leak - small leak detected	Wiring, fuel pressure sensor, mechanical fault
P0095	Intake air temperature (IAT) sensor 2 - circuit malfunction	Wiring, poor connection, IAT sensor, ECM
P0096	Intake air temperature (IAT) sensor 2 - circuit range/performance	Wiring, poor connection, IAT sensor, ECM
P0097	Intake air temperature (IAT) sensor 2 - circuit low input	Wiring short to earth, IAT sensor, ECM
P0098	Intake air temperature (IAT) sensor 2 - circuit high input	Wiring short to positive, IAT sensor. ECM
P0099	Intake air temperature (IAT) sensor 2 - circuit intermittent/erratic	Wiring, poor connection, IAT sensor, ECM
P0100	Mass air flow (MAF) sensor/volume air flow (VAF) sensor - circuit malfunction	Wiring, MAF/VAF sensor, ECM
P0101	Mass air flow (MAF) sensor/volume air flow (VAF) sensor - range/performance problem	Intake leak/blockage, MAF/VAF sensor
P0102	Mass air flow (MAF) sensor/volume air flow (VAF) sensor - low input	Wiring short to earth, MAF/VAF sensor, ECM
P0103	Mass air flow (MAF) sensor/volume air flow (VAF) sensor - high input	Wiring short to positive, MAF/VAF sensor, ECM

P0104	Mass air flow (MAF) sensor/volume air flow (VAF) sensor - circuit intermittent	Wiring, poor connection, MAF/VAF sensor, ECM
P0105	Manifold absolute pressure (MAP) sensor/barometric pressure (BARO) sensor - circuit malfunction	Wiring, MAP sensor, BARO sensor, ECM
P0106	Manifold absolute pressure (MAP) sensor/barometric pressure (BARO) sensor - range/performance problem	Intake/exhaust leak, wiring, MAP sensor, BARO sensor
P0107	Manifold absolute pressure (MAP) sensor/barometric pressure (BARO) sensor - low input	Wiring short to earth, MAP sensor, BARO sensor, ECM
P0108	Manifold absolute pressure (MAP) sensor/barometric pressure (BARO) sensor - high input	Wiring short to positive, MAP sensor, BARO sensor, ECM
P0109	Manifold absolute pressure (MAP) sensor/barometric pressure (BARO) sensor - circuit intermittent	Wiring, poor connection, MAP sensor, BARO sensor, ECM
P0110	Intake air temperature (IAT) sensor - circuit malfunction	Wiring, IAT sensor, ECM
P0111	Intake air temperature (IAT) sensor - range/performance problem	IAT sensor
P0112	Intake air temperature (IAT) sensor - low input	Wiring short to earth, IAT sensor, ECM
P0113	Intake air temperature (IAT) sensor - high input	Wiring open circuit/short to positive, earth wire defective, IAT sensor, ECM
P0114	Intake air temperature (IAT) sensor - circuit intermittent	Wiring, poor connection, IAT sensor, ECM
P0115	Engine coolant temperature (ECT) sensor - circuit malfunction	Wiring, ECT sensor, ECM
P0116	Engine coolant temperature (ECT) sensor - range/performance problem	Coolant thermostat, poor connection, wiring, ECT sensor
P0117	Engine coolant temperature (ECT) sensor - low input	Coolant thermostat, wiring short to earth, ECT sensor
P0118	Engine coolant temperature (ECT) sensor - high input	Coolant thermostat, wiring open circuit/short to positive, earth wire defective, ECT sensor
P0119	Engine coolant temperature (ECT) sensor - circuit intermittent	Wiring, poor connection, ECT sensor, ECM
P0120	Throttle position (TP) sensor A/accelerator pedal position (APP) sensor A - circuit malfunction	Wiring, TP/APP sensor, ECM
P0120	Throttle position (TP) switch A/accelerator pedal position (APP) switch A - circuit malfunction	Wiring, TP/APP switch, ECM
P0121	Throttle position (TP) sensor A/accelerator pedal position (APP) sensor A - range/performance problem	Accelerator cable adjustment, TP/APP sensor
P0121	Throttle position (TP) switch A/accelerator pedal position (APP) switch A - range/performance problem	Accelerator cable adjustment, TP/APP switch
P0122	Throttle position (TP) sensor A/accelerator pedal position (APP) sensor A - low input	Wiring short to earth, TP/APP sensor, ECM
P0122	Throttle position (TP) switch A/accelerator pedal position (APP) switch A - low input	Wiring short to earth, TP/APP switch, ECM
P0123	Throttle position (TP) sensor A/accelerator pedal position (APP) sensor A - high input	Wiring short to positive, TP/APP sensor, ECM
P0123	Throttle position (TP) switch A/accelerator pedal position (APP) switch A - high input	Wiring short to positive, TP/APP switch, ECM
P0124	Throttle position (TP) sensor A/accelerator pedal position (APP) sensor A - circuit intermittent	Wiring, poor connection, TP/APP sensor, ECM
P0124	Throttle position (TP) switch A/accelerator pedal position (APP) switch A - circuit intermittent	Wiring, poor connection, TP/APP switch, ECM
P0125	Insufficient coolant temperature for closed loop fuel control	Wiring, cooling system, coolant thermostat, ECT sensor
P0126	Insufficient coolant temperature for stable operation	Wiring, cooling system, coolant thermostat, ECT sensor
P0127	Intake air temperature too high	Wiring short to earth, IAT sensor 2, mechanical fault, ECM

P0128	Coolant thermostat - coolant temperature below thermostat regulating temperature	Mechanical fault
P0129	Barometric pressure too low	Wiring, BARO sensor, mechanical fault
P0130	Heated oxygen sensor (HO2S) 1, bank 1 - circuit malfunction	Heating inoperative, poor connection, wiring, HO2S
P0130	Oxygen sensor (O2S) 1, bank 1 - circuit malfunction	Wiring, O2S, ECM
P0131	Heated oxygen sensor (HO2S) 1, bank 1 - low voltage	Exhaust leak, wiring short to earth, HO2S, ECM
P0131	Oxygen sensor (O2S) 1, bank 1 - low voltage	Exhaust leak, wiring short to earth, O2S, ECM
P0132	Heated oxygen sensor (HO2S) 1, bank 1 - high voltage	Wiring short to positive, HO2S, ECM
P0132	Oxygen sensor (O2S) 1, bank 1 - high voltage	Wiring short to positive, O2S, ECM
P0133	Heated oxygen sensor (HO2S) 1, bank 1 - slow response	Heating inoperative, wiring, HO2S
P0133	Oxygen sensor (O2S) 1, bank 1 - slow response	Wiring, O2S
P0134	Heated oxygen sensor (HO2S) 1, bank 1 - no activity detected	Wiring open circuit, heating inoperative, HO2S
P0134	Oxygen sensor (O2S) 1, bank 1 - no activity detected	Wiring, O2S
P0135	Heated oxygen sensor (HO2S) 1, bank 1, heater control - circuit malfunction	Fuse, wiring, HO2S, ECM
P0136	Heated oxygen sensor (HO2S) 2, bank 1 - circuit malfunction	Heating inoperative, wiring, HO2S, ECM
P0136	Oxygen sensor (O2S) 2, bank 1 - circuit malfunction	Wiring, O2S, ECM
P0137	Heated oxygen sensor (HO2S) 2, bank 1 - low voltage	Exhaust leak, wiring short to earth, HO2S, ECM
P0137	Oxygen sensor (O2S) 2, bank 1 - low voltage	Exhaust leak, wiring short to earth, O2S, ECM
P0138	Heated oxygen sensor (HO2S) 2, bank 1 - high voltage	Wiring short to positive, HO2S, ECM
P0138	Oxygen sensor (O2S) 2, bank 1 - high voltage	Wiring short to positive, O2S, ECM
P0139	Heated oxygen sensor (HO2S) 2, bank 1 - slow response	Heating inoperative, wiring, HO2S
P0139	Oxygen sensor (O2S) 2, bank 1 - slow response	Wiring, O2S
P0140	Heated oxygen sensor (HO2S) 2, bank 1 - no activity detected	Wiring, heating inoperative, HO2S, ECM
P0140	Oxygen sensor (O2S) 2, bank 1 - no activity detected	Wiring, O2S, ECM
P0141	Heated oxygen sensor (HO2S) 2, bank 1, heater control - circuit malfunction	Wiring, HO2S, ECM
P0142	Heated oxygen sensor (HO2S) 3, bank 1 - circuit malfunction	Wiring, HO2S, ECM
P0143	Heated oxygen sensor (HO2S) 3, bank 1 - low voltage	Exhaust leak, wiring short to earth, HO2S, ECM
P0143	Oxygen sensor (O2S) 3, bank 1 - low voltage	Exhaust leak, wiring short to earth, O2S, ECM
P0144	Heated oxygen sensor (HO2S) 3, bank 1 - high voltage	Wiring short to positive, HO2S, ECM
P0144	Oxygen sensor (O2S) 3, bank 1 - high voltage	Wiring short to positive, O2S, ECM
P0145	Heated oxygen sensor (HO2S) 3, bank 1 - slow response	Heating inoperative, wiring, HO2S
P0145	Oxygen sensor (O2S) 3, bank 1 - slow response	Wiring, O2S
P0146	Heated oxygen sensor (HO2S) 3, bank 1 - no activity detected	Wiring, HO2S, ECM
P0146	Oxygen sensor (O2S) 3, bank 1 - no activity detected	Wiring, O2S, ECM
P0147	Heated oxygen sensor (HO2S) 3, bank 1, heater control - circuit malfunction	Wiring, HO2S, ECM
P0148	Fuel delivery error	Fuel pump/fuel injection pump
P0149	Fuel timing error	Fuel pump/fuel injection pump
P0150	Heated oxygen sensor (HO2S) 1, bank 2 - circuit malfunction	Wiring, HO2S, ECM
P0150	Oxygen sensor (O2S) 1, bank 2 - circuit malfunction	Wiring, O2S, ECM
P0151	Heated oxygen sensor (HO2S) 1, bank 2 - low voltage	Exhaust leak, wiring short to earth, HO2S, ECM

P0151	Oxygen sensor (O2S) 1, bank 2 - low voltage	Exhaust leak, wiring short to earth, O2S, ECM
P0152	Heated oxygen sensor (HO2S) 1, bank 2 - high voltage	Wiring short to positive, HO2S, ECM
P0152	Oxygen sensor (O2S) 1, bank 2 - high voltage	Wiring short to positive, O2S, ECM
P0153	Heated oxygen sensor (HO2S) 1, bank 2 - slow response	Heating inoperative, wiring, HO2S
P0153	Oxygen sensor (O2S) 1, bank 2 - slow response	Wiring, O2S
P0154	Heated oxygen sensor (HO2S) 1, bank 2 - no activity detected	Wiring, HO2S, ECM
P0154	Oxygen sensor (O2S) 1, bank 2 - no activity detected	Wiring, O2S, ECM
P0155	Heated oxygen sensor (HO2S) 1, bank 2, heater control - circuit malfunction	Wiring, HO2S, ECM
P0156	Heated oxygen sensor (HO2S) 2, bank 2 - circuit malfunction	Heating inoperative, wiring, HO2S, ECM
P0156	Oxygen sensor (O2S) 2, bank 2 - circuit malfunction	Wiring, O2S, ECM
P0157	Heated oxygen sensor (HO2S) 2, bank 2 - low voltage	Exhaust leak, wiring short to earth, HO2S, ECM
P0157	Oxygen sensor (O2S) 2, bank 2 - low voltage	Exhaust leak, wiring short to earth, O2S, ECM
P0158	Heated oxygen sensor (HO2S) 2, bank 2 - high voltage	Wiring short to positive, HO2S, ECM
P0158	Oxygen sensor (O2S) 2, bank 2 - high voltage	Wiring short to positive, O2S, ECM
P0159	Heated oxygen sensor (HO2S) 2, bank 2 - slow response	Heating inoperative, wiring, HO2S
P0159	Oxygen sensor (O2S) 2, bank 2 - slow response	Wiring, O2S
P0160	Heated oxygen sensor (HO2S) 2, bank 2 - no activity detected	Wiring, HO2S, ECM
P0160	Oxygen sensor (O2S) 2, bank 2 - no activity detected	Wiring, O2S, ECM
P0161	Heated oxygen sensor (HO2S) 2, bank 2, heater control - circuit malfunction	Wiring, HO2S, ECM
P0162	Heated oxygen sensor (HO2S) 3, bank 2 - circuit malfunction	Wiring, HO2S, ECM
P0162	Oxygen sensor (O2S) 3, bank 2 - circuit malfunction	Wiring, O2S, ECM
P0163	Heated oxygen sensor (HO2S) 3, bank 2 - low voltage	Exhaust leak, wiring short to earth, HO2S, ECM
P0163	Oxygen sensor (O2S) 3, bank 2 - low voltage	Exhaust leak, wiring short to earth, O2S, ECM
P0164	Heated oxygen sensor (HO2S) 3, bank 2 - high voltage	Wiring short to positive, HO2S, ECM
P0164	Oxygen sensor (O2S) 3, bank 2 - high voltage	Wiring short to positive, O2S, ECM
P0165	Heated oxygen sensor (HO2S) 3, bank 2 - slow response	Heating inoperative, wiring, HO2S
P0165	Oxygen sensor (O2S) 3, bank 2 - slow response	Wiring, O2S
P0166	Heated oxygen sensor (HO2S) 3, bank 2 - no activity detected	Wiring, HO2S, ECM
P0166	Oxygen sensor (O2S) 3, bank 2 - no activity detected	Wiring, O2S, ECM
P0167	Heated oxygen sensor (HO2S) 3, bank 2, heater control - circuit malfunction	Wiring, HO2S, ECM
P0168	Fuel temperature too high	Wiring, fuel temperature sensor, mechanical fault
P0169	Incorrect fuel composition	Wiring, fuel composition sensor, mechanical fault
P0170	Fuel trim (FT), bank 1 - malfunction	Intake leak, AIR system, fuel pressure/pump, injector(s), EVAP canister purge valve, HO2S
P0171	System too lean, bank 1	Intake/exhaust leak, AIR system, MAF/VAF sensor, fuel pressure/pump, injector(s), HO2S
P0172	System too rich, bank 1	Intake blocked, EVAP canister purge valve, fuel pressure, EGR system, injector(s), HO2S
P0173	Fuel trim (FT), bank 2 - malfunction	Intake leak, AIR system, fuel pressure/pump, injector(s), EVAP canister purge valve, HO2S
P0174	System too lean, bank 2	Intake/exhaust leak, fuel pressure/pump, injector(s), AIR system, hose connection(s)

P0175	System too rich, bank 2	Intake blocked, EVAP canister purge valve, fuel pressure, EGR system, injector(s), HO2S
P0176	Fuel composition sensor - circuit malfunction	Wiring, fuel composition sensor, ECM
P0177	Fuel composition sensor - range/performance problem	Fuel composition sensor
P0178	Fuel composition sensor - low input	Wiring short to earth, fuel composition sensor, ECM
P0179	Fuel composition sensor - high input	Wiring short to positive, fuel composition sensor, ECM
P0180	Fuel temperature sensor A - circuit malfunction	Wiring, fuel temperature sensor, ECM
P0181	Fuel temperature sensor A - range/performance problem	Fuel temperature sensor
P0182	Fuel temperature sensor A - low input	Wiring short to earth, fuel temperature sensor, ECM
P0183	Fuel temperature sensor A - high input	Wiring short to positive, fuel temperature sensor, ECM
P0184	Fuel temperature sensor A - circuit intermittent	Wiring, poor connection, fuel temperature sensor, ECM
P0185	Fuel temperature sensor B - circuit malfunction	Wiring, fuel temperature sensor, ECM
P0186	Fuel temperature sensor B - range/performance problem	Fuel temperature sensor
P0187	Fuel temperature sensor B - low input	Wiring short to earth, fuel temperature sensor, ECM
P0188	Fuel temperature sensor B - high input	Wiring short to positive, fuel temperature sensor, ECM
P0189	Fuel temperature sensor B - circuit intermittent	Wiring, poor connection, fuel temperature sensor, ECM
P0190	Fuel rail pressure (FRP) sensor - circuit malfunction	Wiring, fuel rail pressure sensor, ECM
P0191	Fuel rail pressure (FRP) sensor - range/performance problem	Wiring, FRP sensor
P0192	Fuel rail pressure (FRP) sensor - low input	Wiring short to earth, FRP sensor
P0193	Fuel rail pressure (FRP) sensor - high input	Wiring short to positive, FRP sensor
P0194	Fuel rail pressure (FRP) sensor - circuit intermittent	Wiring, poor connection, FRP sensor
P0195	Engine oil temperature (EOT) sensor - circuit malfunction	Wiring, EOT sensor, ECM
P0196	Engine oil temperature (EOT) sensor - range/performance problem	EOT sensor
P0197	Engine oil temperature (EOT) sensor - low input	Wiring short to earth, EOT sensor
P0198	Engine oil temperature (EOT) sensor - high input	Wiring short to positive, EOT sensor
P0199	Engine oil temperature (EOT) sensor - circuit intermittent	Wiring, poor connection, EOT sensor, ECM
P0200	Injector - circuit malfunction	Wiring, injector, ECM
P0201	Injector 1 - circuit malfunction	Wiring, injector, ECM
P0202	Injector 2 - circuit malfunction	Wiring, injector, ECM
P0203	Injector 3 - circuit malfunction	Wiring, injector, ECM
P0204	Injector 4 - circuit malfunction	Wiring, injector, ECM
P0205	Injector 5 - circuit malfunction	Wiring, injector, ECM
P0206	Injector 6 - circuit malfunction	Wiring, injector, ECM
P0207	Injector 7 - circuit malfunction	Wiring, injector, ECM
P0208	Injector 8 - circuit malfunction	Wiring, injector, ECM
P0209	Injector 9 - circuit malfunction	Wiring, injector, ECM
P0210	Injector 10 - circuit malfunction	Wiring, injector, ECM
P0211	Injector 11 - circuit malfunction	Wiring, injector, ECM
P0212	Injector 12 - circuit malfunction	Wiring, injector, ECM
P0213	Cold start injector 1 - circuit malfunction	Wiring, cold start injector, ECM
P0214	Cold start injector 2 - circuit malfunction	Wiring, cold start injector, ECM
P0215	Fuel shut-off solenoid - circuit malfunction	Wiring, fuel shut-off solenoid, ECM
P0216	Fuel injection timing control - circuit malfunction	Wiring, fuel injection timing control solenoid, ECM
P0217	Engine over temperature condition	Wiring, cooling system, coolant thermostat, ECT sensor
P0218	Transmission over temperature condition	Wiring, TFT sensor, ECM
P0219	Engine over speed condition	Incorrect gear change

P0220	Throttle position (TP) sensor B/accelerator pedal position (APP) sensor B - circuit malfunction	Wiring, TP/APP sensor, ECM
P0220	Throttle position (TP) switch B/accelerator pedal position (APP) switch B - circuit malfunction	Wiring, TP/APP switch, ECM
P0221	Throttle position (TP) sensor B/accelerator pedal position (APP) sensor B - range/performance problem	Accelerator cable adjustment, TP/APP sensor
P0221	Throttle position (TP) switch B/accelerator pedal position (APP) switch B - range/performance problem	Accelerator cable adjustment, TP/APP switch
P0222	Throttle position (TP) sensor B/accelerator pedal position (APP) sensor B - low input	Wiring short to earth, TP/APP sensor, ECM
P0222	Throttle position (TP) switch B/accelerator pedal position (APP) switch B - low input	Wiring short to earth, TP/APP switch, ECM
P0223	Throttle position (TP) sensor B/accelerator pedal position (APP) sensor B - high input	Wiring short to positive, TP/APP sensor, ECM
P0223	Throttle position (TP) switch B/accelerator pedal position (APP) switch B - high input	Wiring short to positive, TP/APP switch, ECM
P0224	Throttle position (TP) sensor B/accelerator pedal position (APP) sensor B - circuit intermittent	Wiring, poor connection, TP/APP sensor, ECM
P0224	Throttle position (TP) switch B/accelerator pedal position (APP) switch B - circuit intermittent	Wiring, poor connection, TP/APP switch, ECM
P0225	Throttle position (TP) sensor C/accelerator pedal position (APP) sensor C - circuit malfunction	Wiring, TP/APP sensor, ECM
P0225	Throttle position (TP) switch C/accelerator pedal position (APP) switch C - circuit malfunction	Wiring, TP/APP switch, ECM
P0226	Throttle position (TP) sensor C/accelerator pedal position (APP) sensor C - range/performance problem	Accelerator cable adjustment, TP/APP sensor
P0226	Throttle position (TP) switch C/accelerator pedal position (APP) switch C - range/performance problem	Accelerator cable adjustment, TP/APP switch
P0227	Throttle position (TP) sensor C/accelerator pedal position (APP) sensor C - low input	Wiring short to earth, TP/APP sensor, ECM
P0227	Throttle position (TP) switch C/accelerator pedal position (APP) switch C - low input	Wiring short to earth, TP/APP switch, ECM
P0228	Throttle position (TP) sensor C/accelerator pedal position (APP) sensor C - high input	Wiring short to positive, TP/APP sensor, ECM
P0228	Throttle position (TP) switch C/accelerator pedal position (APP) switch C - high input	Wiring short to positive, TP/APP switch, ECM
P0229	Throttle position (TP) sensor C/accelerator pedal position (APP) sensor C - circuit intermittent	Wiring, poor connection, TP/APP sensor, ECM
P0229	Throttle position (TP) switch C/accelerator pedal position (APP) switch C - circuit intermittent	Wiring, poor connection, TP/APP switch, ECM
P0230	Fuel pump relay - circuit malfunction	Wiring, fuel pump relay, ECM
P0231	Fuel pump relay - circuit low	Wiring short to earth, fuel pump relay, ECM
P0232	Fuel pump relay - circuit high	Wiring short to positive, fuel pump relay, ECM
P0233	Fuel pump relay - circuit intermittent	Wiring, poor connection, fuel pump relay, ECM
P0234	Engine boost condition - limit exceeded	Hose connection(s), wiring, TC wastegate regulating valve, TC wastegate
P0235	Engine boost condition - limit not reached	Hose connection(s), wiring, TC wastegate regulating valve, TC wastegate, TC
P0236	Manifold absolute pressure (MAP) sensor A, TC system - range/performance problem	Intake/exhaust leak, hose connection(s), MAP sensor
P0237	Manifold absolute pressure (MAP) sensor A, TC system - low input	Wiring short to earth, MAP sensor, ECM
P0238	Manifold absolute pressure (MAP) sensor A, TC system - high input	Wiring short to positive, MAP sensor, ECM
P0239	Manifold absolute pressure (MAP) sensor B, TC system - circuit malfunction	Wiring, MAP sensor, ECM
-----------	--	--
P0240	Manifold absolute pressure (MAP) sensor B, TC system - range/performance problem	Intake/exhaust leak, hose connection(s), MAP sensor
P0241	Manifold absolute pressure (MAP) sensor B, TC system - low input	Wiring short to earth, MAP sensor, ECM
P0242	Manifold absolute pressure (MAP) sensor B, TC system - high input	Wiring short to positive, MAP sensor, ECM
P0243	Turbocharger (TC) wastegate regulating valve A - circuit malfunction	Wiring, TC wastegate regulating valve, ECM
P0244	Turbocharger (TC) wastegate regulating valve A - range/performance problem	TC wastegate regulating valve
P0245	Turbocharger (TC) wastegate regulating valve A - circuit low	Wiring short to earth, TC wastegate regulating valve, ECM
P0246	Turbocharger (TC) wastegate regulating valve A - circuit high	Wiring short to positive, TC wastegate regulating valve ECM
P0247	Turbocharger (TC) wastegate regulating valve B - circuit malfunction	Wiring, TC wastegate regulating valve, ECM
P0248	Turbocharger (TC) wastegate regulating valve B - range/performance problem	TC wastegate regulating valve
P0249	Turbocharger (TC) wastegate regulating valve B - circuit low	Wiring short to earth, TC wastegate regulating valve, ECM
P0250	Turbocharger (TC) wastegate regulating valve B - circuit high	Wiring short to positive, TC wastegate regulating valve ECM
P0251	Injection pump A, rotor/cam - circuit malfunction	Wiring, injection pump, ECM
P0252	Injection pump A, rotor/cam - range/performance problem	Injection pump
P0253	Injection pump A, rotor/cam - circuit low	Wiring short to earth, injection pump, ECM
P0254	Injection pump A, rotor/cam - circuit high	Wiring short to positive, injection pump, ECM
P0255	Injection pump A, rotor/cam - circuit intermittent	Wiring, poor connection, injection pump, ECM
P0256	Injection pump B, rotor/cam - circuit malfunction	Wiring, injection pump, ECM
P0257	Injection pump B, rotor/cam - range/performance problem	Injection pump
P0258	Injection pump B, rotor/cam - circuit low	Wiring short to earth, injection pump, ECM
P0259	Injection pump B, rotor/cam - circuit high	Wiring short to positive, injection pump, ECM
P0260	Injection pump B, rotor/cam - circuit intermittent	Wiring, poor connection, injection pump, ECM
P0261	Injector 1 - circuit low	Wiring short to earth, injector, ECM
P0262	Injector 1 - circuit high	Wiring short to positive, injector, ECM
P0263	Cylinder 1 - contribution/balance fault	Wiring, fuel system, ECM
P0264	Injector 2 - circuit low	Wiring short to earth, injector, ECM
P0265	Injector 2 - circuit high	Wiring short to positive, injector, ECM
P0266	Cylinder 2 - contribution/balance fault	Wiring, fuel system, ECM
P0267	Injector 3 - circuit low	Wiring short to earth, injector, ECM
P0268	Injector 3 - circuit high	Wiring short to positive, injector, ECM
P0269	Cylinder 3 - contribution/balance fault	Wiring, fuel system, ECM
P0270	Injector 4 - circuit low	Wiring short to earth, injector, ECM
 P0271	Injector 4 - circuit high	Wiring short to positive, injector, ECM
P0272	Cylinder 4 - contribution/balance fault	Wiring, fuel system, ECM
P0273	Injector 5 - circuit low	Wiring short to earth. iniector. ECM
P0274	Injector 5 - circuit high	Wiring short to positive, injector, ECM
		Wiring fuel system ECM
P0275	ILVIINGER 5 - CONTRIDUTION/DAIANCE TAUIT	
P0275	Cylinder 5 - contribution/balance fault	Wiring short to earth injector FCM

Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02 © Autodata Limited 2004 2006.10.21. V5.500- /Autodata

P0278	Cylinder 6 - contribution/balance fault	Wiring, fuel system, ECM
P0279	Injector 7 - circuit low	Wiring short to earth, injector, ECM
P0280	Injector 7 - circuit high	Wiring short to positive, injector, ECM
P0281	Cylinder 7 - contribution/balance fault	Wiring, fuel system, ECM
P0282	Injector 8 - circuit low	Wiring short to earth, injector, ECM
P0283	Injector 8 - circuit high	Wiring short to positive, injector, ECM
P0284	Cylinder 8 - contribution/balance fault	Wiring, fuel system, ECM
P0285	Injector 9 - circuit low	Wiring short to earth, injector, ECM
P0286	Injector 9 - circuit high	Wiring short to positive, injector, ECM
P0287	Cylinder 9 - contribution/balance fault	Wiring, fuel system, ECM
P0288	Injector 10 - circuit low	Wiring short to earth, injector, ECM
P0289	Injector 10 - circuit high	Wiring short to positive, injector, ECM
P0290	Cylinder 10 - contribution/balance fault	Wiring, fuel system, ECM
P0291	Injector 11 - circuit low	Wiring short to earth, injector, ECM
P0292	Injector 11 - circuit high	Wiring short to positive, injector, ECM
P0293	Cylinder 11 - contribution/balance fault	Wiring, fuel system, ECM
P0294	Injector 12 - circuit low	Wiring short to earth, injector, ECM
P0295	Injector 12 - circuit high	Wiring short to positive, injector, ECM
P0296	Cylinder 12 - contribution/balance fault	Wiring, fuel system, ECM
P0297	Vehicle over-speed condition	Wiring, VSS, mechanical fault
P0298	Engine oil temperature too high	Wiring, EOT sensor, mechanical fault
P0299	Turbo/super charger - low boost	Mechanical fault
P0300	Random/multiple cylinder(s) - misfire detected	Spark plug(s), HT lead(s), injector(s), ignition coil(s), low compression, wiring
P0301	Cylinder 1 - misfire detected	Engine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECM
P0302	Cylinder 2 - misfire detected	Engine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECM
P0303	Cylinder 3 - misfire detected	Engine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECM
P0304	Cylinder 4 - misfire detected	Engine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECM
P0305	Cylinder 5 - misfire detected	Engine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECM
P0306	Cylinder 6 - misfire detected	Engine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECM
P0307	Cylinder 7 - misfire detected	Engine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECM
P0308	Cylinder 8 - misfire detected	Engine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECM
P0309	Cylinder 9 - misfire detected	Engine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECM
P0310	Cylinder 10 - misfire detected	Engine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECM
P0311	Cylinder 11 - misfire detected	Engine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECM
P0312	Cylinder 12 - misfire detected	Engine mechanical fault, wiring, ignition/fuel system, injector, ECT/MAF sensor, ECM
P0313	Misfire detected - low fuel level	Fuel system, mechanical fault
P0314	Single cylinder misfire - cylinder not specified	Engine mechanical fault, wiring, ignition/fuel system, injector

P0315	Crankshaft position system - variation not learned	Engine mechanical fault, wiring
P0316	Misfire detected during start-up - first 1000 revolutions	Engine mechanical fault, wiring, ignition/fuel system, injector
P0317	Rough road hardware not present	Wiring, ECM
P0318	Rough road sensor signal A - circuit malfunction	Wiring, rough road sensor A, mechanical fault
P0319	Rough road sensor signal B - circuit malfunction	Wiring, rough road sensor B, mechanical fault
P0320	Crankshaft position (CKP) sensor/engine speed (RPM) sensor - circuit malfunction	Wiring, CKP/RPM sensor, ECM
P0321	Crankshaft position (CKP) sensor/engine speed (RPM) sensor - range/performance problem	Air gap, metal particle contamination, insecure sensor/rotor, wiring, CKP/RPM sensor
P0322	Crankshaft position (CKP) sensor/engine speed (RPM) sensor - no signal	Wiring, CKP/RPM sensor, ECM
P0323	Crankshaft position (CKP) sensor/engine speed (RPM) sensor - circuit intermittent	Wiring, poor connection, CKP/RPM sensor, ECM
P0324	Knock control system error	Wiring, poor connection, KS, ECM
P0325	Knock sensor (KS) 1, bank 1 - circuit malfunction	Wiring, poor connection, KS
P0326	Knock sensor (KS) 1, bank 1 - range/performance problem	Wiring, KS incorrectly tightened, KS
P0327	Knock sensor (KS) 1, bank 1 - low input	Insecure KS, poor connection, wiring short to earth, incorrectly tightened, KS, ECM
P0328	Knock sensor (KS) 1, bank 1 - high input	Wiring short to positive, KS incorrectly tightened, KS, ECM
P0329	Knock sensor (KS) 1, bank 1 - circuit intermittent	Wiring, poor connection, KS, ECM
P0330	Knock sensor (KS) 2, bank 2 - circuit malfunction	Wiring, KS, ECM
P0331	Knock sensor (KS) 2, bank 2 - range/performance problem	Wiring, KS incorrectly tightened, KS
P0332	Knock sensor (KS) 2, bank 2 - low input	Insecure KS, poor connection, wiring short to earth, KS incorrectly tightened, KS, ECM
P0333	Knock sensor (KS) 2, bank 2 - high input	Wiring short to positive, KS incorrectly tightened, KS, ECM
P0334	Knock sensor (KS) 2, bank 2 - circuit intermittent	Wiring, poor connection, KS, ECM
P0335	Crankshaft position (CKP) sensor - circuit malfunction	Wiring, CKP sensor, ECM
P0336	Crankshaft position (CKP) sensor - range/performance problem	Insecure sensor/rotor, air gap, wiring, CKP sensor
P0337	Crankshaft position (CKP) sensor - low input	Wiring short to earth, CKP sensor, ECM
P0338	Crankshaft position (CKP) sensor - high input	Wiring short to positive, CKP sensor, ECM
P0339	Crankshaft position (CKP) sensor - circuit intermittent	Wiring, poor connection, CKP sensor, ECM
P0340	Camshaft position (CMP) sensor A, bank 1 - circuit malfunction	Wiring, CMP sensor, ECM
P0341	Camshaft position (CMP) sensor A, bank 1 - range/performance problem	Insecure sensor/rotor, air gap, wiring, CMP sensor
P0342	Camshaft position (CMP) sensor A, bank 1 - low input	Wiring short to earth, CMP sensor, ECM
P0343	Camshaft position (CMP) sensor A, bank 1 - high input	Wiring short to positive, CMP sensor, ECM
P0344	Camshaft position (CMP) sensor A, bank 1 - circuit intermittent	Wiring, poor connection, CMP sensor, ECM
P0345	Camshaft position (CMP) sensor A, bank 2 - circuit malfunction	Wiring, CMP sensor, ECM
P0346	Camshaft position (CMP) sensor A, bank 2 - range/performance problem	Insecure sensor/rotor, air gap, wiring, CMP sensor
P0347	Camshaft position (CMP) sensor A, bank 2 - low input	Wiring short to earth, CMP sensor, ECM
P0348	Camshaft position (CMP) sensor A, bank 2 - high input	Wiring short to positive, CMP sensor, ECM

P0350 Ignition coli, primary/secondary - circuit malfunction Wring, ignition coli, ECM P0351 Ignition coli B, primary/secondary - circuit malfunction Wring, ignition coli, ECM P0352 Ignition coli D, primary/secondary - circuit malfunction Wring, ignition coli, ECM P0353 Ignition coli D, primary/secondary - circuit malfunction Wring, ignition coli, ECM P0354 Ignition coli E, primary/secondary - circuit malfunction Wring, ignition coli, ECM P0355 Ignition coli E, primary/secondary - circuit malfunction Wring, ignition coli, ECM P0355 Ignition coli I, primary/secondary - circuit malfunction Wring, ignition coli, ECM P0356 Ignition coli I, primary/secondary - circuit malfunction Wring, ignition coli, ECM P0360 Ignition coli I, primary/secondary - circuit malfunction Wring, ignition coli, ECM P0361 Ignition coli I, primary/secondary - circuit malfunction Wring, ignition coli, ECM P0362 Ignition coli I, primary/secondary - circuit malfunction Wring, ignition coli, ECM P0363 Ignition coli I, primary/secondary - circuit malfunction Wring, ignition coli, ECM P0363 Ignition coli I, primary/secondary - circuit malfunction Wring, ignition coli	P0349	Camshaft position (CMP) sensor A, bank 2 - circuit intermittent	Wiring, poor connection, CMP sensor, ECM
P0351 Ignition coil A, primary/secondary - circuit matifunction Wring, ignition coil E CM P0352 Ignition coil B, primary/secondary - circuit matifunction Wring, ignition coil, ECM P0354 Ignition coil D, primary/secondary - circuit matifunction Wring, ignition coil, ECM P0354 Ignition coil D, primary/secondary - circuit matifunction Wring, ignition coil, ECM P0355 Ignition coil E, primary/secondary - circuit matifunction Wring, ignition coil, ECM P0355 Ignition coil D, primary/secondary - circuit matifunction Wring, ignition coil, ECM P0358 Ignition coil J, primary/secondary - circuit matifunction Wring, ignition coil, ECM P0350 Ignition coil J, primary/secondary - circuit matifunction Wring, ignition coil, ECM P0361 Ignition coil J, primary/secondary - circuit matifunction Wring, ignition coil, ECM P0362 Ignition coil L, primary/secondary - circuit matifunction Wring, ignition coil, ECM P0363 Ignition coil L, primary/secondary - circuit matifunction Wring, ignition coil, ECM P0364 Camshaft position (CMP) sensor B, bank 1 - circuit Wring, ignition coil, ECM P0365 Camshaft position (CMP) sensor B, bank 1 - circuit Wring short to eart	P0350	Ignition coil, primary/secondary - circuit malfunction	Wiring, ignition coil, ECM
P0352 Ignition coil B, primary/secondary - circuit matfunction Wring, ignition coil, ECM P0354 Ignition coil D, primary/secondary - circuit matfunction Wring, ignition coil, ECM P0355 Ignition coil E, primary/secondary - circuit matfunction Wring, ignition coil, ECM P0355 Ignition coil F, primary/secondary - circuit matfunction Wring, ignition coil, ECM P0356 Ignition coil F, primary/secondary - circuit matfunction Wring, ignition coil, ECM P0358 Ignition coil J, primary/secondary - circuit matfunction Wring, ignition coil, ECM P0359 Ignition coil J, primary/secondary - circuit matfunction Wring, ignition coil, ECM P0361 Ignition coil J, primary/secondary - circuit matfunction Wring, ignition coil, ECM P0362 Ignition coil J, primary/secondary - circuit matfunction Wring, ignition coil, ECM P0363 Ignition coil CMP) sensor B, bank 1 - circuit Wring, opor connection, CMP sensor, ECM P0364 Camshaft position (CMP) sensor B, bank 1 - circuit Wring, poor connection, CMP sensor, ECM P0366 Camshaft position (CMP) sensor B, bank 1 - circuit Wring, opor connection, CMP sensor, ECM P0370 Timing reference, high resolution signal A - toreant Wri	P0351	Ignition coil A, primary/secondary - circuit malfunction	Wiring, ignition coil, ECM
P0363 Ignition coil C, primary/secondary - circuit malfunction Wring, ignition coil, ECM P0364 Ignition coil C, primary/secondary - circuit malfunction Wring, ignition coil, ECM P0365 Ignition coil E, primary/secondary - circuit malfunction Wring, ignition coil, ECM P0356 Ignition coil E, primary/secondary - circuit malfunction Wring, ignition coil, ECM P0357 Ignition coil I, primary/secondary - circuit malfunction Wring, ignition coil, ECM P0358 Ignition coil I, primary/secondary - circuit malfunction Wring, ignition coil, ECM P0360 Ignition coil I, primary/secondary - circuit malfunction Wring, ignition coil, ECM P0362 Ignition coil I, primary/secondary - circuit malfunction Wring, ignition coil, ECM P0361 Ignition coil I, primary/secondary - circuit malfunction Wring, ignition coil, ECM P0362 Ignition coil I, primary/secondary - circuit malfunction Wring, ignition coil, ECM P0362 Ignition coil I, primary/secondary - circuit malfunction Wring, ignition coil, ECM P0363 Camshaft position (CMP) sensor B, bank 1 - circuit Wring, poor connection, CMP sensor, ECM P0364 Camshaft position (CMP) sensor B, bank 1 - circuit Wring short to e	P0352	Ignition coil B, primary/secondary - circuit malfunction	Wiring, ignition coil, ECM
P0354 Ignition coil D, primary/secondary - circuit mafunction Wring, ignition coil, ECM P0355 Ignition coil E, primary/secondary - circuit mafunction Wring, ignition coil, ECM P0356 Ignition coil E, primary/secondary - circuit mafunction Wring, ignition coil, ECM P0357 Ignition coil I, primary/secondary - circuit mafunction Wring, ignition coil, ECM P0358 Ignition coil I, primary/secondary - circuit mafunction Wring, ignition coil, ECM P0351 Ignition coil I, primary/secondary - circuit mafunction Wring, ignition coil, ECM P0361 Ignition coil I, primary/secondary - circuit mafunction Wring, ignition coil, ECM P0362 Ignition coil I, primary/secondary - circuit mafunction Wring, ignition coil, ECM P0363 Misfire datectd - Velling disabled Fuel system, mechanical fault P0363 Carshaft position (CMP) sensor B, bank 1 - circuit Wring, poor connection, CMP sensor, ECM P0364 Carshaft position (CMP) sensor B, bank 1 - circuit high input Wring, coprime connection, CMP sensor, ECM P0365 Carshaft position (CMP) sensor B, bank 1 - circuit high input Wring, cCP/RPMiCMP sensor, ECM P0370 Timing reference, high resolution signal A - torouit Wring, C	P0353	Ignition coil C, primary/secondary - circuit malfunction	Wiring, ignition coil, ECM
P0355 Ignition coil E, primary/secondary - circuit maffunction Wring, ignition coil, ECM P0357 Ignition coil G, primary/secondary - circuit maffunction Wring, ignition coil, ECM P0358 Ignition coil G, primary/secondary - circuit maffunction Wring, ignition coil, ECM P0359 Ignition coil J, primary/secondary - circuit maffunction Wring, ignition coil, ECM P0360 Ignition coil J, primary/secondary - circuit maffunction Wring, ignition coil, ECM P0361 Ignition coil J, primary/secondary - circuit maffunction Wring, ignition coil, ECM P0362 Ignition coil J, primary/secondary - circuit maffunction Wring, ignition coil, ECM P0363 Ignition coil J, primary/secondary - circuit maffunction Wring, ignition coil, ECM P0363 Ignition coil C, primary/secondary - circuit maffunction Wring, ignition coil, ECM P0364 Camshaft position (CMP) sensor B, bank 1 - circuit Wring, poor connection, CMP sensor, ECM P0365 Camshaft position (CMP) sensor B, bank 1 - circuit high input Wring short to positive, CMP sensor, ECM P0367 Camshaft position (CMP) sensor B, bank 1 - circuit high input Wring reference, high resolution signal A - too many P0370 Timing reference, high resolutio	P0354	Ignition coil D, primary/secondary - circuit malfunction	Wiring, ignition coil, ECM
P0356 Ignition coil F, primary/secondary - circuit malfunction Wring, ignition coil, ECM P0357 Ignition coil G, primary/secondary - circuit malfunction Wring, ignition coil, ECM P0359 Ignition coil L, primary/secondary - circuit malfunction Wring, ignition coil, ECM P0350 Ignition coil L, primary/secondary - circuit malfunction Wring, ignition coil, ECM P0361 Ignition coil L, primary/secondary - circuit malfunction Wring, ignition coil, ECM P0362 Ignition coil L, primary/secondary - circuit malfunction Wring, ignition coil, ECM P0363 Matire detected - fuelling disabled Fuel system, mechanical fault P0364 Carnshaft position (CMP) sensor B, bank 1 - circuit Wring, poor connection, CMP sensor, ECM P0365 Carnshaft position (CMP) sensor B, bank 1 - circuit Iow Wring, cor connection, CMP sensor, ECM P0365 Carnshaft position (CMP) sensor B, bank 1 - circuit Iow Wring, cKP/RPM/CMP sensor, ECM P0366 Carnshaft position (CMP) sensor B, bank 1 - circuit Iw Wring, CKP/RPM/CMP sensor, ECM P0369 Carnshaft position (CMP) sensor B, bank 1 - circuit Iow Wring, CKP/RPM/CMP sensor, ECM P0370 Timing reference, high resolution signal A - tore of tw Wrin	P0355	Ignition coil E, primary/secondary - circuit malfunction	Wiring, ignition coil, ECM
P0357 Ignition coil G, primary/secondary - circuit malfunction Wiring, ignition coil, ECM P0358 Ignition coil I, primary/secondary - circuit malfunction Wiring, ignition coil, ECM P0360 Ignition coil J, primary/secondary - circuit malfunction Wiring, ignition coil, ECM P0361 Ignition coil J, primary/secondary - circuit malfunction Wiring, ignition coil, ECM P0362 Ignition coil L, primary/secondary - circuit malfunction Wiring, ignition coil, ECM P0363 Misfire detected - fueling disabled Fuel system, mechanical fault P0364 Camshaft position (CMP) sensor B, bank 1 - circuit Wiring, poor connection, CMP sensor, ECM P0366 Camshaft position (CMP) sensor B, bank 1 - circuit high input Wiring short to positive, CMP sensor, ECM P0366 Camshaft position (CMP) sensor B, bank 1 - circuit Wiring, poor connection, ECM P0367 Camshaft position (CMP) sensor B, bank 1 - circuit high input Wiring, CKP/RPM/CMP sensor, ECM P0368 Camshaft position (CMP) sensor B, bank 1 - circuit Wiring, CKP/RPM/CMP sensor, ECM P0368 Camshaft position (CMP) sensor B, bank 1 - circuit Wiring, CKP/RPM/CMP sensor, ECM P0370 Timing reference, high resolution signal A - no many pulses	P0356	Ignition coil F, primary/secondary - circuit malfunction	Wiring, ignition coil, ECM
P0358 Ignition coil H, primary/secondary - circuit maffunction Wiring, ignition coil, ECM P0350 Ignition coil J, primary/secondary - circuit maffunction Wiring, ignition coil, ECM P0361 Ignition coil L, primary/secondary - circuit maffunction Wiring, ignition coil, ECM P0362 Ignition coil L, primary/secondary - circuit maffunction Wiring, ignition coil, ECM P0363 Misfire detected - fuelling disabled Fuel system, mechanical fault P0366 Camshaft position (CMP) sensor B, bank 1 - circuit Wiring, poor connection, CMP sensor, ECM P0366 Camshaft position (CMP) sensor B, bank 1 - circuit low Wiring short to earth, CMP sensor, ECM P0367 Camshaft position (CMP) sensor B, bank 1 - circuit ligh Wiring short to positive, CMP sensor, ECM P0368 Camshaft position (CMP) sensor B, bank 1 - circuit Wiring, poor connection, ECM P0368 Camshaft position (CMP) sensor B, bank 1 - circuit Wiring, cKP/RPM/CMP sensor, ECM P0370 Tirming reference, high resolution signal A - too reary Wiring, CKP/RPM/CMP sensor, ECM P0371 Tirming reference, high resolution signal A - too few Wiring, CKP/RPM/CMP sensor, ECM P0373 Tirming reference, high resolution signal B - too few	P0357	Ignition coil G, primary/secondary - circuit malfunction	Wiring, ignition coil, ECM
P0359 Ignition coil I, primary/secondary - circuit malfunction Wiring, ignition coil, ECM P0360 Ignition coil J, primary/secondary - circuit malfunction Wiring, ignition coil, ECM P0361 Ignition coil L, primary/secondary - circuit malfunction Wiring, ignition coil, ECM P0362 Ignition coil L, primary/secondary - circuit malfunction Wiring, ignition coil, ECM P0363 Misfire detected - fuelling disabled Fuel system, mechanical fault P0364 Camshaft position (CMP) sensor B, bank 1 - circuit Wiring, poor connection, CMP sensor, ECM P0366 Camshaft position (CMP) sensor B, bank 1 - circuit low Wiring short to earth, CMP sensor, ECM P0367 Camshaft position (CMP) sensor B, bank 1 - circuit high input Wiring, poor connection, ECM P0368 Camshaft position (CMP) sensor B, bank 1 - circuit Wiring, cKP/RPM/CMP sensor, ECM P0369 Camshaft position (CMP) sensor B, bank 1 - circuit Wiring, CKP/RPM/CMP sensor, ECM P0370 Tirming reference, high resolution signal A - too many Wiring, CKP/RPM/CMP sensor, ECM P0371 Timing reference, high resolution signal A - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0373 Tirming reference, high resolution signal B - too few pulses	P0358	Ignition coil H, primary/secondary - circuit malfunction	Wiring, ignition coil, ECM
P0360 Ignition coil J, primary/secondary - circuit malfunction Wiring, ignition coil, ECM P0361 Ignition coil L, primary/secondary - circuit malfunction Wiring, ignition coil, ECM P0363 Misfire detected - fuelling disabled Fuel system, mechanical fault P0363 Misfire detected - fuelling disabled Fuel system, mechanical fault P0365 Camshaft position (CMP) sensor B, bank 1 - circuit Wiring, poor connection, CMP sensor, ECM P0366 Camshaft position (CMP) sensor B, bank 1 - circuit low Wiring short to earth, CMP sensor, ECM P0368 Camshaft position (CMP) sensor B, bank 1 - circuit low Wiring, poor connection, CMP sensor, ECM P0368 Camshaft position (CMP) sensor B, bank 1 - circuit low Wiring, poor connection, ECM P0369 Camshaft position (CMP) sensor B, bank 1 - circuit Wiring, cKP/RPM/CMP sensor, ECM P0370 Timing reference, high resolution signal A - too many Wiring, CKP/RPM/CMP sensor, ECM P0371 Timing reference, high resolution signal A - too few Wiring, CKP/RPM/CMP sensor, ECM P0374 Timing reference, high resolution signal A - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0374 Timing reference, high resolution signal B - noto many Wiring,	P0359	Ignition coil I, primary/secondary - circuit malfunction	Wiring, ignition coil, ECM
P0361 Ignition coil K, primary/secondary - circuit malfunction Wiring, ignition coil, ECM P0363 Ignition coil L, primary/secondary - circuit malfunction Wiring, ignition coil, ECM P0363 Misfire detected - fuelling disabled Fuel system, mechanical fault P0364 Camshaft position (CMP) sensor B, bank 1 - circuit Wiring, poor connection, CMP sensor, ECM P0366 Camshaft position (CMP) sensor B, bank 1 - circuit low Wiring short to earth, CMP sensor, ECM P0367 Camshaft position (CMP) sensor B, bank 1 - circuit high Wiring short to earth, CMP sensor, ECM P0368 Camshaft position (CMP) sensor B, bank 1 - circuit high Wiring, poor connection, ECM P0369 Camshaft position (CMP) sensor B, bank 1 - circuit Wiring, cKP/RPM/CMP sensor, ECM P0370 Timing reference, high resolution signal A - too many Wiring, CKP/RPM/CMP sensor, ECM P0371 Timing reference, high resolution signal A - too few Wiring, CKP/RPM/CMP sensor, ECM P0373 Timing reference, high resolution signal A - ino pulses Wiring, CKP/RPM/CMP sensor, ECM P0374 Timing reference, high resolution signal B - intermittent Wiring, cKP/RPM/CMP sensor, ECM P0374 Timing reference, high resolution signal B - intermitte	P0360	Ignition coil J, primary/secondary - circuit malfunction	Wiring, ignition coil, ECM
P0362 Ignition coil L, primary/secondary - circuit malfunction Wiring, ignition coil, ECM P0363 Misfire detected - fuelling disabled Fuel system, mechanical fault P0366 Camshaft position (CMP) sensor B, bank 1 - circuit Wiring, poor connection, CMP sensor, ECM P0366 Camshaft position (CMP) sensor B, bank 1 - circuit Wiring, poor connection, CMP sensor P0367 Camshaft position (CMP) sensor B, bank 1 - circuit low Wiring short to earth, CMP sensor, ECM P0368 Camshaft position (CMP) sensor B, bank 1 - circuit high put Wiring short to positive, CMP sensor, ECM P0368 Camshaft position (CMP) sensor B, bank 1 - circuit wiring, poor connection, ECM P0369 Camshaft position (CMP) sensor B, bank 1 - circuit Wiring, poor connection, ECM P0370 Timing reference, high resolution signal A - malfunction Wiring, CKP/RPM/CMP sensor, ECM P0371 Timing reference, high resolution signal A - too few Wiring, CKP/RPM/CMP sensor, ECM P0374 Timing reference, high resolution signal A - ino pulses Wiring, CKP/RPM/CMP sensor, ECM P0374 Timing reference, high resolution signal B - ono pulses Wiring, CKP/RPM/CMP sensor, ECM P0375 Timing reference, high resolution signal B - too few Wiring, CKP/RPM/CMP sensor, ECM <td< td=""><td>P0361</td><td>Ignition coil K, primary/secondary - circuit malfunction</td><td>Wiring, ignition coil, ECM</td></td<>	P0361	Ignition coil K, primary/secondary - circuit malfunction	Wiring, ignition coil, ECM
P0363 Misfire detected - fuelling disabled Fuel system, mechanical fault P0365 Camshaft position (CMP) sensor B, bank 1 - circuit malfunction Wiring, poor connection, CMP sensor, ECM P0366 Camshaft position (CMP) sensor B, bank 1 - circuit range/performance Wiring, poor connection, CMP sensor, ECM P0367 Camshaft position (CMP) sensor B, bank 1 - circuit low input Wiring short to earth, CMP sensor, ECM P0368 Camshaft position (CMP) sensor B, bank 1 - circuit high input Wiring short to positive, CMP sensor, ECM P0369 Camshaft position (CMP) sensor B, bank 1 - circuit intermittent Wiring, poor connection, ECM P0370 Timing reference, high resolution signal A - malfunction Wiring, CKP/RPM/CMP sensor, ECM P0371 Timing reference, high resolution signal A - too few pulses Wiring, CKP/RPM/CMP sensor, ECM P0373 Timing reference, high resolution signal A - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0374 Timing reference, high resolution signal B - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0376 Timing reference, high resolution signal B - too many pulses Wiring, CKP/RPM/CMP sensor, ECM P0376 Timing reference, high resolution signal B - too many pulses Wiring, glow pluge, CKP/RPM/CMP sensor, ECM	P0362	Ignition coil L, primary/secondary - circuit malfunction	Wiring, ignition coil, ECM
P0365 Camshaft position (CMP) sensor B, bank 1 - circuit malfunction Wiring, poor connection, CMP sensor, ECM P0366 Camshaft position (CMP) sensor B, bank 1 - circuit range/performance Wiring, poor connection, CMP sensor P0367 Camshaft position (CMP) sensor B, bank 1 - circuit low input Wiring short to earth, CMP sensor, ECM P0368 Camshaft position (CMP) sensor B, bank 1 - circuit ligh input Wiring short to positive, CMP sensor, ECM P0369 Camshaft position (CMP) sensor B, bank 1 - circuit intermittent Wiring, cor connection, ECM P0370 Timing reference, high resolution signal A - malfunction Wiring, CKP/RPM/CMP sensor, ECM P0371 Timing reference, high resolution signal A - too few pulses Wiring, CKP/RPM/CMP sensor, ECM P0372 Timing reference, high resolution signal A - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0373 Timing reference, high resolution signal A - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0374 Timing reference, high resolution signal B - malfunction Wiring, CKP/RPM/CMP sensor, ECM P0374 Timing reference, high resolution signal B - too many pulses Wiring, CKP/RPM/CMP sensor, ECM P0375 Timing reference, high resolution signal B - too few pulses Wiring, CKP/RPM/CMP sensor, ECM <td>P0363</td> <td>Misfire detected - fuelling disabled</td> <td>Fuel system, mechanical fault</td>	P0363	Misfire detected - fuelling disabled	Fuel system, mechanical fault
P0366 Camshaft position (CMP) sensor B, bank 1 - circuit range/performance Wiring, poor connection, CMP sensor P0367 Camshaft position (CMP) sensor B, bank 1 - circuit low input Wiring short to earth, CMP sensor, ECM P0368 Camshaft position (CMP) sensor B, bank 1 - circuit high input Wiring short to positive, CMP sensor, ECM P0369 Camshaft position (CMP) sensor B, bank 1 - circuit intermittent Wiring, poor connection, ECM P0370 Timing reference, high resolution signal A - malfunction Wiring, CKP/RPM/CMP sensor, ECM P0371 Timing reference, high resolution signal A - too few pulses Wiring, CKP/RPM/CMP sensor, ECM P0373 Timing reference, high resolution signal A - too few pulses Wiring, poor connection, CKP/RPM/CMP sensor, ECM P0374 Timing reference, high resolution signal A - intermittent erratic pulses Wiring, CKP/RPM/CMP sensor, ECM P0375 Timing reference, high resolution signal B - intermittent Wiring, CKP/RPM/CMP sensor, ECM P0375 Timing reference, high resolution signal B - too few pulses Wiring, CKP/RPM/CMP sensor, ECM P0376 Timing reference, high resolution signal B - too few pulses Wiring, CKP/RPM/CMP sensor, ECM P0376 Timing reference, high resolution signal B - intermittent erratic pulses Wir	P0365	Camshaft position (CMP) sensor B, bank 1 - circuit malfunction	Wiring, poor connection, CMP sensor, ECM
P0367 Camshaft position (CMP) sensor B, bank 1 - circuit low input Wiring short to earth, CMP sensor, ECM P0368 Camshaft position (CMP) sensor B, bank 1 - circuit high input Wiring short to positive, CMP sensor, ECM P0369 Camshaft position (CMP) sensor B, bank 1 - circuit intermittent Wiring, poor connection, ECM P0370 Timing reference, high resolution signal A - malfunction Wiring, CKP/RPM/CMP sensor, ECM P0371 Timing reference, high resolution signal A - too few pulses Wiring, CKP/RPM/CMP sensor, ECM P0373 Timing reference, high resolution signal A - too few pulses Wiring, poor connection, CKP/RPM/CMP sensor, ECM P0374 Timing reference, high resolution signal A - intermittent erratic pulses Wiring, CKP/RPM/CMP sensor, ECM P0375 Timing reference, high resolution signal A - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0376 Timing reference, high resolution signal B - malfunction Wiring, CKP/RPM/CMP sensor, ECM P0376 Timing reference, high resolution signal B - too few pulses Wiring, CKP/RPM/CMP sensor, ECM P0377 Timing reference, high resolution signal B - no pulses Wiring, poor connection, CKP/RPM/CMP sensor, ECM P0378 Timing reference, high resolution signal B - no pulses Wiring, cKP/RPM/CMP sensor,	P0366	Camshaft position (CMP) sensor B, bank 1 - circuit range/performance	Wiring, poor connection, CMP sensor
P0368 Camshaft position (CMP) sensor B, bank 1 - circuit high input Wiring short to positive, CMP sensor, ECM P0369 Camshaft position (CMP) sensor B, bank 1 - circuit intermittent Wiring, poor connection, ECM P0370 Timing reference, high resolution signal A - malfunction Wiring, CKP/RPM/CMP sensor, ECM P0371 Timing reference, high resolution signal A - too many pulses Wiring, CKP/RPM/CMP sensor, ECM P0372 Timing reference, high resolution signal A - too few pulses Wiring, CKP/RPM/CMP sensor, ECM P0373 Timing reference, high resolution signal A - no pulses Wiring, cKP/RPM/CMP sensor, ECM P0374 Timing reference, high resolution signal A - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0375 Timing reference, high resolution signal B - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0376 Timing reference, high resolution signal B - too many pulses Wiring, CKP/RPM/CMP sensor, ECM P0376 Timing reference, high resolution signal B - too few pulses Wiring, poor connection, CKP/RPM/CMP sensor, ECM P0377 Timing reference, high resolution signal B - intermittent erratic pulses Wiring, poor connection, CKP/RPM/CMP sensor, ECM P0378 Timing reference, high resolution signal B - no pulses Wiring, poor connection, CKP/RPM/CMP	P0367	Camshaft position (CMP) sensor B, bank 1 - circuit low input	Wiring short to earth, CMP sensor, ECM
P0369 Camshaft position (CMP) sensor B, bank 1 - circuit intermittent Wiring, poor connection, ECM P0370 Timing reference, high resolution signal A - malfunction Wiring, CKP/RPM/CMP sensor, ECM P0371 Timing reference, high resolution signal A - too many pulses Wiring, CKP/RPM/CMP sensor, ECM P0372 Timing reference, high resolution signal A - too few pulses Wiring, CKP/RPM/CMP sensor, ECM P0373 Timing reference, high resolution signal A - intermittent erratic pulses Wiring, CKP/RPM/CMP sensor, ECM P0374 Timing reference, high resolution signal A - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0375 Timing reference, high resolution signal B - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0376 Timing reference, high resolution signal B - too many pulses Wiring, CKP/RPM/CMP sensor, ECM P0376 Timing reference, high resolution signal B - too few pulses Wiring, CKP/RPM/CMP sensor, ECM P0377 Timing reference, high resolution signal B - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0378 Timing reference, high resolution signal B - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0378 Timing reference, high resolution signal B - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0379	P0368	Camshaft position (CMP) sensor B, bank 1 - circuit high input	Wiring short to positive, CMP sensor, ECM
P0370 Timing reference, high resolution signal A - malfunction Wiring, CKP/RPM/CMP sensor, ECM P0371 Timing reference, high resolution signal A - too many pulses Wiring, CKP/RPM/CMP sensor, ECM P0372 Timing reference, high resolution signal A - too few pulses Wiring, CKP/RPM/CMP sensor, ECM P0373 Timing reference, high resolution signal A - intermittent pulses Wiring, poor connection, CKP/RPM/CMP sensor, ECM P0374 Timing reference, high resolution signal A - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0374 Timing reference, high resolution signal A - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0375 Timing reference, high resolution signal B - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0376 Timing reference, high resolution signal B - too many pulses Wiring, CKP/RPM/CMP sensor, ECM P0377 Timing reference, high resolution signal B - too few pulses Wiring, poor connection, CKP/RPM/CMP sensor, ECM P0378 Timing reference, high resolution signal B - intermittent pulses Wiring, poor connection, CKP/RPM/CMP sensor, ECM P0379 Timing reference, high resolution signal B - no pulses Wiring, poor connection, CKP/RPM/CMP sensor, ECM P0378 Timing reference, high resolution signal B - no pulses Wiring, glow plug relay	P0369	Camshaft position (CMP) sensor B, bank 1 - circuit intermittent	Wiring, poor connection, ECM
P0371 Timing reference, high resolution signal A - too many pulses Wiring, CKP/RPM/CMP sensor, ECM P0372 Timing reference, high resolution signal A - too few pulses Wiring, CKP/RPM/CMP sensor, ECM P0373 Timing reference, high resolution signal A - intermittent erratic pulses Wiring, poor connection, CKP/RPM/CMP sensor, ECM P0374 Timing reference, high resolution signal A - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0375 Timing reference, high resolution signal B - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0376 Timing reference, high resolution signal B - too many pulses Wiring, CKP/RPM/CMP sensor, ECM P0376 Timing reference, high resolution signal B - too few pulses Wiring, CKP/RPM/CMP sensor, ECM P0377 Timing reference, high resolution signal B - no pulses Wiring, poor connection, CKP/RPM/CMP sensor, ECM P0378 Timing reference, high resolution signal B - no pulses Wiring, poor connection, CKP/RPM/CMP sensor, ECM P0379 Timing reference, high resolution signal B - no pulses Wiring, glow plug relay, fuse, glow plugs, ECM P0380 Glow plug warning lamp - circuit malfunction Wiring, glow plug relay, fuse, glow plugs, ECM P0381 Glow plug warning lamp - circuit malfunction Wiring, glow plug relay, glow plug	P0370	Timing reference, high resolution signal A - malfunction	Wiring, CKP/RPM/CMP sensor, ECM
P0372 Timing reference, high resolution signal A - too few pulses Wiring, CKP/RPM/CMP sensor, ECM P0373 Timing reference, high resolution signal A - intermittent erratic pulses Wiring, poor connection, CKP/RPM/CMP sensor, ECM P0374 Timing reference, high resolution signal A - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0375 Timing reference, high resolution signal B - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0376 Timing reference, high resolution signal B - too many pulses Wiring, CKP/RPM/CMP sensor, ECM P0377 Timing reference, high resolution signal B - too few pulses Wiring, CKP/RPM/CMP sensor, ECM P0378 Timing reference, high resolution signal B - too few pulses Wiring, poor connection, CKP/RPM/CMP sensor, ECM P0378 Timing reference, high resolution signal B - no pulses Wiring, poor connection, CKP/RPM/CMP sensor, ECM P0379 Timing reference, high resolution signal B - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0379 Timing reference, high resolution signal B - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0380 Glow plugs, circuit A - malfunction Wiring, glow plug relay, fuse, glow plugs, ECM P0381 Glow plug warning lamp - circuit malfunction Wiring, glow plug relay, glow plugs, ECM	P0371	Timing reference, high resolution signal A - too many pulses	Wiring, CKP/RPM/CMP sensor, ECM
P0373 Timing reference, high resolution signal A - intermittent erratic pulses Wiring, poor connection, CKP/RPM/CMP sensor, ECM P0374 Timing reference, high resolution signal A - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0375 Timing reference, high resolution signal B - malfunction Wiring, CKP/RPM/CMP sensor, ECM P0376 Timing reference, high resolution signal B - too many pulses Wiring, CKP/RPM/CMP sensor, ECM P0377 Timing reference, high resolution signal B - too few pulses Wiring, CKP/RPM/CMP sensor, ECM P0378 Timing reference, high resolution signal B - too few pulses Wiring, poor connection, CKP/RPM/CMP sensor, ECM P0378 Timing reference, high resolution signal B - intermittent erratic pulses Wiring, poor connection, CKP/RPM/CMP sensor, ECM P0379 Timing reference, high resolution signal B - no pulses Wiring, cKP/RPM/CMP sensor, ECM P0379 Timing reference, high resolution signal B - no pulses Wiring, glow plug relay, fuse, glow plugs, ECM P0380 Glow plugs, circuit A - malfunction Wiring, glow plug relay, fuse, glow plugs, ECM P0381 Glow plugs, circuit B - malfunction Wiring, glow plug relay, glow plugs, ECM P0385 Crankshaft position (CKP) sensor B - circuit malfunction Wiring, CKP sensor, ECM P0386 Crankshaft	P0372	Timing reference, high resolution signal A - too few pulses	Wiring, CKP/RPM/CMP sensor, ECM
P0374 Timing reference, high resolution signal A - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0375 Timing reference, high resolution signal B - malfunction Wiring, CKP/RPM/CMP sensor, ECM P0376 Timing reference, high resolution signal B - too many pulses Wiring, CKP/RPM/CMP sensor, ECM P0377 Timing reference, high resolution signal B - too few pulses Wiring, CKP/RPM/CMP sensor, ECM P0378 Timing reference, high resolution signal B - too few pulses Wiring, poor connection, CKP/RPM/CMP sensor, ECM P0379 Timing reference, high resolution signal B - intermittent erratic pulses Wiring, cKP/RPM/CMP sensor, ECM P0379 Timing reference, high resolution signal B - no pulses Wiring, CKP/RPM/CMP sensor, ECM P0380 Glow plugs, circuit A - malfunction Wiring, glow plug relay, fuse, glow plugs, ECM P0381 Glow plugs, circuit B - malfunction Wiring, glow plug warning lamp, ECM P0385 Crankshaft position (CKP) sensor B - circuit malfunction Wiring, CKP sensor, ECM P0386 Crankshaft position (CKP) sensor B - range/performance problem Insecure sensor/rotor, air gap, wiring, CKP sensor P0387 Crankshaft position (CKP) sensor B - low input Wiring short to earth, CKP sensor, ECM P0388 Crankshaft position (CKP) sensor B - low input	P0373	Timing reference, high resolution signal A - intermittent erratic pulses	Wiring, poor connection, CKP/RPM/CMP sensor, ECM
P0375 Timing reference, high resolution signal B - malfunction Wiring, CKP/RPM/CMP sensor, ECM P0376 Timing reference, high resolution signal B - too many pulses Wiring, CKP/RPM/CMP sensor, ECM P0377 Timing reference, high resolution signal B - too few pulses Wiring, CKP/RPM/CMP sensor, ECM P0378 Timing reference, high resolution signal B - intermittent erratic pulses Wiring, poor connection, CKP/RPM/CMP sensor, ECM P0379 Timing reference, high resolution signal B - no pulses Wiring, OKP/RPM/CMP sensor, ECM P0379 Timing reference, high resolution signal B - no pulses Wiring, OKP/RPM/CMP sensor, ECM P0380 Glow plugs, circuit A - malfunction Wiring, glow plug relay, fuse, glow plugs, ECM P0381 Glow plug warning lamp - circuit malfunction Wiring, glow plug relay, glow plugs, ECM P0382 Glow plugs, circuit B - malfunction Wiring, CKP sensor, ECM P0385 Crankshaft position (CKP) sensor B - circuit malfunction Wiring, CKP sensor, ECM P0386 Crankshaft position (CKP) sensor B - range/performance problem Insecure sensor/rotor, air gap, wiring, CKP sensor P0388 Crankshaft position (CKP) sensor B - low input Wiring short to earth, CKP sensor, ECM	P0374	Timing reference, high resolution signal A - no pulses	Wiring, CKP/RPM/CMP sensor, ECM
P0376Timing reference, high resolution signal B - too many pulsesWiring, CKP/RPM/CMP sensor, ECMP0377Timing reference, high resolution signal B - too few pulsesWiring, CKP/RPM/CMP sensor, ECMP0378Timing reference, high resolution signal B - intermittent erratic pulsesWiring, poor connection, CKP/RPM/CMP sensor, ECMP0379Timing reference, high resolution signal B - no pulsesWiring, CKP/RPM/CMP sensor, ECMP0380Glow plugs, circuit A - malfunctionWiring, glow plug relay, fuse, glow plugs, ECMP0381Glow plug warning lamp - circuit malfunctionWiring, glow plug warning lamp, ECMP0382Glow plugs, circuit B - malfunctionWiring, glow plug relay, glow plugs, ECMP0385Crankshaft position (CKP) sensor B - circuit malfunctionWiring, CKP sensor, ECMP0386Crankshaft position (CKP) sensor B - range/performance problemInsecure sensor/rotor, air gap, wiring, CKP sensorP0388Crankshaft position (CKP) sensor B - low inputWiring short to earth, CKP sensor, ECMP0388Crankshaft position (CKP) sensor B - low inputWiring short to positive, CKP sensor, ECM	P0375	Timing reference, high resolution signal B - malfunction	Wiring, CKP/RPM/CMP sensor, ECM
P0377Timing reference, high resolution signal B - too few pulsesWiring, CKP/RPM/CMP sensor, ECMP0378Timing reference, high resolution signal B - intermittent erratic pulsesWiring, poor connection, CKP/RPM/CMP sensor, ECMP0379Timing reference, high resolution signal B - no pulsesWiring, CKP/RPM/CMP sensor, ECMP0380Glow plugs, circuit A - malfunctionWiring, glow plug relay, fuse, glow plugs, ECMP0381Glow plug warning lamp - circuit malfunctionWiring, glow plug warning lamp, ECMP0382Glow plugs, circuit B - malfunctionWiring, glow plug relay, glow plugs, ECMP0385Crankshaft position (CKP) sensor B - circuit malfunctionWiring, CKP sensor, ECMP0386Crankshaft position (CKP) sensor B - range/performance problemInsecure sensor/rotor, air gap, wiring, CKP sensorP0387Crankshaft position (CKP) sensor B - low inputWiring short to earth, CKP sensor, ECMP0388Crankshaft position (CKP) sensor B - high inputWiring short to positive, CKP sensor, ECM	P0376	Timing reference, high resolution signal B - too many pulses	Wiring, CKP/RPM/CMP sensor, ECM
P0378Timing reference, high resolution signal B - intermittent erratic pulsesWiring, poor connection, CKP/RPM/CMP sensor, ECMP0379Timing reference, high resolution signal B - no pulsesWiring, CKP/RPM/CMP sensor, ECMP0380Glow plugs, circuit A - malfunctionWiring, glow plug relay, fuse, glow plugs, ECMP0381Glow plug warning lamp - circuit malfunctionWiring, glow plug warning lamp, ECMP0382Glow plugs, circuit B - malfunctionWiring, glow plug relay, glow plugs, ECMP0385Crankshaft position (CKP) sensor B - circuit malfunctionWiring, CKP sensor, ECMP0386Crankshaft position (CKP) sensor B - range/performance problemInsecure sensor/rotor, air gap, wiring, CKP sensorP0387Crankshaft position (CKP) sensor B - low inputWiring short to earth, CKP sensor, ECMP0388Crankshaft position (CKP) sensor B - high inputWiring short to positive, CKP sensor, ECM	P0377	Timing reference, high resolution signal B - too few pulses	Wiring, CKP/RPM/CMP sensor, ECM
P0379Timing reference, high resolution signal B - no pulsesWiring, CKP/RPM/CMP sensor, ECMP0380Glow plugs, circuit A - malfunctionWiring, glow plug relay, fuse, glow plugs, ECMP0381Glow plug warning lamp - circuit malfunctionWiring, glow plug warning lamp, ECMP0382Glow plugs, circuit B - malfunctionWiring, glow plug relay, glow plugs, ECMP0385Crankshaft position (CKP) sensor B - circuit malfunctionWiring, CKP sensor, ECMP0386Crankshaft position (CKP) sensor B - range/performance problemInsecure sensor/rotor, air gap, wiring, CKP sensorP0387Crankshaft position (CKP) sensor B - low inputWiring short to earth, CKP sensor, ECMP0388Crankshaft position (CKP) sensor B - high inputWiring short to positive, CKP sensor, ECM	P0378	Timing reference, high resolution signal B - intermittent erratic pulses	Wiring, poor connection, CKP/RPM/CMP sensor, ECM
P0380Glow plugs, circuit A - malfunctionWiring, glow plug relay, fuse, glow plugs, ECMP0381Glow plug warning lamp - circuit malfunctionWiring, glow plug warning lamp, ECMP0382Glow plugs, circuit B - malfunctionWiring, glow plug relay, glow plugs, ECMP0385Crankshaft position (CKP) sensor B - circuit malfunctionWiring, CKP sensor, ECMP0386Crankshaft position (CKP) sensor B - range/performance problemInsecure sensor/rotor, air gap, wiring, CKP sensorP0387Crankshaft position (CKP) sensor B - low inputWiring short to earth, CKP sensor, ECMP0388Crankshaft position (CKP) sensor B - high inputWiring short to positive, CKP sensor, ECM	P0379	Timing reference, high resolution signal B - no pulses	Wiring, CKP/RPM/CMP sensor, ECM
P0381 Glow plug warning lamp - circuit malfunction Wiring, glow plug warning lamp, ECM P0382 Glow plugs, circuit B - malfunction Wiring, glow plug relay, glow plugs, ECM P0385 Crankshaft position (CKP) sensor B - circuit malfunction Wiring, CKP sensor, ECM P0386 Crankshaft position (CKP) sensor B - range/performance problem Insecure sensor/rotor, air gap, wiring, CKP sensor P0387 Crankshaft position (CKP) sensor B - low input Wiring short to earth, CKP sensor, ECM P0388 Crankshaft position (CKP) sensor B - high input Wiring short to positive, CKP sensor, ECM	P0380	Glow plugs, circuit A - malfunction	Wiring, glow plug relay, fuse, glow plugs, ECM
P0382 Glow plugs, circuit B - malfunction Wiring, glow plug relay, glow plugs, ECM P0385 Crankshaft position (CKP) sensor B - circuit malfunction Wiring, CKP sensor, ECM P0386 Crankshaft position (CKP) sensor B - range/performance problem Insecure sensor/rotor, air gap, wiring, CKP sensor P0387 Crankshaft position (CKP) sensor B - low input Wiring short to earth, CKP sensor, ECM P0388 Crankshaft position (CKP) sensor B - high input Wiring short to positive, CKP sensor, ECM	P0381	Glow plug warning lamp - circuit malfunction	Wiring, glow plug warning lamp, ECM
P0385 Crankshaft position (CKP) sensor B - circuit malfunction Wiring, CKP sensor, ECM P0386 Crankshaft position (CKP) sensor B - range/performance problem Insecure sensor/rotor, air gap, wiring, CKP sensor P0387 Crankshaft position (CKP) sensor B - low input Wiring short to earth, CKP sensor, ECM P0388 Crankshaft position (CKP) sensor B - low input Wiring short to positive, CKP sensor, ECM	P0382	Glow plugs, circuit B - malfunction	Wiring, glow plug relay, glow plugs, ECM
P0386 Crankshaft position (CKP) sensor B - range/performance problem Insecure sensor/rotor, air gap, wiring, CKP sensor P0387 Crankshaft position (CKP) sensor B - low input Wiring short to earth, CKP sensor, ECM P0388 Crankshaft position (CKP) sensor B - high input Wiring short to positive, CKP sensor, ECM	P0385	Crankshaft position (CKP) sensor B - circuit malfunction	Wiring, CKP sensor, ECM
P0387 Crankshaft position (CKP) sensor B - low input Wiring short to earth, CKP sensor, ECM P0388 Crankshaft position (CKP) sensor B - high input Wiring short to positive, CKP sensor, ECM	P0386	Crankshaft position (CKP) sensor B - range/performance problem	Insecure sensor/rotor, air gap, wiring, CKP sensor
P0388 Crankshaft position (CKP) sensor B - high input Wiring short to positive, CKP sensor, ECM	P0387	Crankshaft position (CKP) sensor B - low input	Wiring short to earth, CKP sensor, ECM
	P0388	Crankshaft position (CKP) sensor B - high input	Wiring short to positive, CKP sensor, ECM
P0389 Crankshaft position (CKP) sensor B - circuit intermittent Wiring, poor connection, CKP sensor, ECM	P0389	Crankshaft position (CKP) sensor B - circuit intermittent	Wiring, poor connection, CKP sensor, ECM

P0391 Camshaft position (CMP) sensor B, bank 2 - circuit range/performance P0392 Camshaft position (CMP) sensor B, bank 2 - circuit low input P0393 Camshaft position (CMP) sensor B, bank 2 - circuit high input P0394 Camshaft position (CMP) sensor B, bank 2 - circuit intermittent P0400 Exhaust gas recirculation (EGR) system - flow malfunction P0401 Exhaust gas recirculation (EGR) system - insufficient flow detected P0402 Exhaust gas recirculation (EGR) system - excessive flow detected P0403 Exhaust gas recirculation (EGR) system - range/performance problem P0405 Exhaust gas recirculation (EGR) valve position sensor A - low input P0406 Exhaust gas recirculation (EGR) valve position sensor A - high input P0407 Exhaust gas recirculation (EGR) valve position sensor B - low input P0408 Exhaust gas recirculation (EGR) valve position sensor B - low input P0409 Exhaust gas recirculation (EGR) sensor A - circuit malfunction P0410 Secondary air injection (AIR) system - malfunction P0411 Secondary air injection (AIR) system - incorrect flow detected P0410 Secondary air injection (AIR) solenoid A - open circuit P0411 Secondary air injection (AIR) soleno	Viring, poor connection, CMP sensor Viring short to earth, CMP sensor, ECM Viring short to positive, CMP sensor, ECM Viring, poor connection, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Hose leak/blockage, wiring, EGR valve, Solenoid Viring, EGR solenoid, ECM Hose leak/blockage, wiring, EGR valve/solenoid Viring short to positive, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM																																																				
P0392 Camshaft position (CMP) sensor B, bank 2 - circuit low input P0393 Camshaft position (CMP) sensor B, bank 2 - circuit high input P0394 Camshaft position (CMP) sensor B, bank 2 - circuit intermittent P0400 Exhaust gas recirculation (EGR) system - flow malfunction P0401 Exhaust gas recirculation (EGR) system - insufficient flow detected P0402 Exhaust gas recirculation (EGR) system - insufficient flow detected P0403 Exhaust gas recirculation (EGR) system - range/performance problem P0404 Exhaust gas recirculation (EGR) valve position sensor A - low input P0405 Exhaust gas recirculation (EGR) valve position sensor A - low input P0406 Exhaust gas recirculation (EGR) valve position sensor B - low input P0407 Exhaust gas recirculation (EGR) valve position sensor B - low input P0408 Exhaust gas recirculation (EGR) valve position sensor B - low input P0409 Exhaust gas recirculation (EGR) sensor A - circuit malfunction P0410 Secondary air injection (AIR) system - malfunction P0411 Secondary air injection (AIR) system - incorrect flow detected P0412 Secondary air injection (AIR) solenoid A - circuit malfunction P0413 Secondary air injection (AIR	Viring short to earth, CMP sensor, ECM Viring short to positive, CMP sensor, ECM Viring, poor connection, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Viring, EGR solenoid, ECM Hose leak/blockage, wiring, EGR valve, Solenoid Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM																																																				
P0393 Camshaft position (CMP) sensor B, bank 2 - circuit high input P0394 Camshaft position (CMP) sensor B, bank 2 - circuit intermittent P0400 Exhaust gas recirculation (EGR) system - flow malfunction P0401 Exhaust gas recirculation (EGR) system - insufficient flow detected P0402 Exhaust gas recirculation (EGR) system - excessive flow detected P0403 Exhaust gas recirculation (EGR) - circuit malfunction P0404 Exhaust gas recirculation (EGR) system - range/performance problem P0405 Exhaust gas recirculation (EGR) valve position sensor A - low input P0406 Exhaust gas recirculation (EGR) valve position sensor B - low input P0407 Exhaust gas recirculation (EGR) valve position sensor B - low input P0408 Exhaust gas recirculation (EGR) valve position sensor B - low input P0409 Exhaust gas recirculation (EGR) sensor A - circuit malfunction P0410 Secondary air injection (AIR) system - malfunction P0411 Secondary air injection (AIR) system - incorrect flow detected P0412 Secondary air injection (AIR) solenoid A - open circuit malfunction P0413 Secondary air injection (AIR) solenoid A - short circuit P0414 Secondary air injection (AIR) solenoid B - o	Viring short to positive, CMP sensor, ECM Viring, poor connection, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Viring, EGR solenoid, ECM Hose leak/blockage, wiring, EGR valve, solenoid Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM																																																				
P0394 Carmshaft position (CMP) sensor B, bank 2 - circuit intermittent P0400 Exhaust gas recirculation (EGR) system - flow malfunction P0401 Exhaust gas recirculation (EGR) system - insufficient flow detected P0402 Exhaust gas recirculation (EGR) system - excessive flow detected P0403 Exhaust gas recirculation (EGR) - circuit malfunction P0404 Exhaust gas recirculation (EGR) system - range/performance problem P0405 Exhaust gas recirculation (EGR) valve position sensor A - low input P0406 Exhaust gas recirculation (EGR) valve position sensor A - high input P0407 Exhaust gas recirculation (EGR) valve position sensor B - low input P0408 Exhaust gas recirculation (EGR) valve position sensor B - low input P0409 Exhaust gas recirculation (EGR) valve position sensor B - low input P0408 Exhaust gas recirculation (EGR) valve position sensor B - low input P0409 Exhaust gas recirculation (EGR) valve position sensor B - low input P0408 Exhaust gas recirculation (AIR) system - malfunction P0410 Secondary air injection (AIR) system - incorrect flow detected P0411 Secondary air injection (AIR) solenoid A - circuit malfunction P0412 Secondary air injection	Viring, poor connection, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Viring, EGR solenoid, ECM Hose leak/blockage, wiring, EGR valve, solenoid Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM																																																				
P0400Exhaust gas recirculation (EGR) system - flow malfunctionP0401Exhaust gas recirculation (EGR) system - insufficient flow detectedP0402Exhaust gas recirculation (EGR) system - excessive flow detectedP0403Exhaust gas recirculation (EGR) - circuit malfunctionP0404Exhaust gas recirculation (EGR) - circuit malfunctionP0405Exhaust gas recirculation (EGR) system - trange/performance problemP0406Exhaust gas recirculation (EGR) valve position sensor A - low inputP0407Exhaust gas recirculation (EGR) valve position sensor B - low inputP0408Exhaust gas recirculation (EGR) valve position sensor B - low inputP0409Exhaust gas recirculation (EGR) valve position sensor B - low inputP0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - short circuitP0414Secondary air injection (AIR) solenoid B - circuitP0415Secondary air injection (AIR) solenoid B - open circuitP0416Secondary air injection (AIR) solenoid B - circuitP0417Secondary air injection (AIR) solenoid B - circuitP0418Secondary air injection (AIR) solenoid B - short circuitP0419Secondary air injection (AIR) pump relay A - circuitP0419Secondary air injection (AIR) pump relay B - circuit <tr <="" td=""><td>Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Viring, EGR solenoid, ECM Hose leak/blockage, wiring, EGR valve/solenoid Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM</td></tr> <tr><td>P0401Exhaust gas recirculation (EGR) system - insufficient flow detectedP0402Exhaust gas recirculation (EGR) system - excessive flow detectedP0403Exhaust gas recirculation (EGR) - circuit malfunctionP0404Exhaust gas recirculation (EGR) system - range/performance problemP0405Exhaust gas recirculation (EGR) valve position sensor A - low inputP0406Exhaust gas recirculation (EGR) valve position sensor A - low inputP0407Exhaust gas recirculation (EGR) valve position sensor A - high inputP0408Exhaust gas recirculation (EGR) valve position sensor B - low inputP0409Exhaust gas recirculation (EGR) valve position sensor B - low inputP0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - short circuitP0414Secondary air injection (AIR) solenoid B - open circuitP0415Secondary air injection (AIR) solenoid B - open circuitP0416Secondary air injection (AIR) pump relay A - circuit malfunctionP0418Secondary air injection (AIR) pump relay A - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction</td><td>Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Viring, EGR solenoid, ECM Hose leak/blockage, wiring, EGR valve/solenoid Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM</td></tr> <tr><td>P0402Exhaust gas recirculation (EGR) system - excessive flow detectedP0403Exhaust gas recirculation (EGR) - circuit malfunctionP0404Exhaust gas recirculation (EGR) system - range/performance problemP0405Exhaust gas recirculation (EGR) valve position sensor A - low inputP0406Exhaust gas recirculation (EGR) valve position sensor A - high inputP0407Exhaust gas recirculation (EGR) valve position sensor B - low inputP0408Exhaust gas recirculation (EGR) valve position sensor B - low inputP0409Exhaust gas recirculation (EGR) valve position sensor B - high inputP0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - open circuit malfunctionP0413Secondary air injection (AIR) solenoid A - short circuit malfunctionP0414Secondary air injection (AIR) solenoid B - circuit malfunctionP0415Secondary air injection (AIR) solenoid B - open circuitP0416Secondary air injection (AIR) solenoid B - short circuitP0417Secondary air injection (AIR) pump relay A - circuit malfunctionP0418Secondary air injection (AIR) pump relay B - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction</td><td>Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Viring, EGR solenoid, ECM Hose leak/blockage, wiring, EGR valve/solenoid Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM</td></tr> <tr><td>P0403 Exhaust gas recirculation (EGR) - circuit malfunction P0404 Exhaust gas recirculation (EGR) system - range/performance problem P0405 Exhaust gas recirculation (EGR) valve position sensor A - low input P0406 Exhaust gas recirculation (EGR) valve position sensor A - high input P0407 Exhaust gas recirculation (EGR) valve position sensor B - low input P0408 Exhaust gas recirculation (EGR) valve position sensor B - low input P0409 Exhaust gas recirculation (EGR) valve position sensor B - high input P0409 Exhaust gas recirculation (EGR) sensor A - circuit malfunction P0410 Secondary air injection (AIR) system - malfunction P0411 Secondary air injection (AIR) system - incorrect flow detected P0412 Secondary air injection (AIR) solenoid A - circuit malfunction P0413 Secondary air injection (AIR) solenoid A - short circuit P0414 Secondary air injection (AIR) solenoid B - open circuit P0415 Secondary air injection (AIR) solenoid B - open circuit P0416 Secondary air injection (AIR) solenoid B - open circuit P0417 Secondary air injection (AIR) solenoid B - short circuit P0418 Secondary air injection (AIR) pump relay A - circuit P0418 Secondary air injecti</td><td>Viring, EGR solenoid, ECM Hose leak/blockage, wiring, EGR valve/solenoid Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM</td></tr> <tr><td>P0404Exhaust gas recirculation (EGR) system - range/performance problemP0405Exhaust gas recirculation (EGR) valve position sensor A - low inputP0406Exhaust gas recirculation (EGR) valve position sensor A - high inputP0407Exhaust gas recirculation (EGR) valve position sensor B - low inputP0408Exhaust gas recirculation (EGR) valve position sensor B - low inputP0409Exhaust gas recirculation (EGR) valve position sensor B - high inputP0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - short circuitP0414Secondary air injection (AIR) solenoid B - circuit malfunctionP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - open circuitP0417Secondary air injection (AIR) solenoid B - open circuitP0418Secondary air injection (AIR) pump relay A - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction</td><td>Hose leak/blockage, wiring, EGR valve/solenoid Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM</td></tr> <tr><td>P0405Exhaust gas recirculation (EGR) valve position sensor A - low inputP0406Exhaust gas recirculation (EGR) valve position sensor A - high inputP0407Exhaust gas recirculation (EGR) valve position sensor B - low inputP0408Exhaust gas recirculation (EGR) valve position sensor B - high inputP0409Exhaust gas recirculation (EGR) valve position sensor B - high inputP0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid B - circuit malfunctionP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - open circuitP0417Secondary air injection (AIR) solenoid B - circuit malfunctionP0418Secondary air injection (AIR) pump relay A - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction</td><td>Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM</td></tr> <tr><td>P0406Exhaust gas recirculation (EGR) valve position sensor A - high inputP0407Exhaust gas recirculation (EGR) valve position sensor B - low inputP0408Exhaust gas recirculation (EGR) valve position sensor B - high inputP0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid B - open circuitP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - circuit malfunctionP0417Secondary air injection (AIR) solenoid B - circuit malfunctionP0418Secondary air injection (AIR) solenoid B - open circuitP0419Secondary air injection (AIR) solenoid B - open circuitP0418Secondary air injection (AIR) solenoid B - open circuitP0419Secondary air injection (AIR) pump relay A - circuit malfunction</td><td>Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM</td></tr> <tr><td>P0407Exhaust gas recirculation (EGR) valve position sensor B - low inputP0408Exhaust gas recirculation (EGR) valve position sensor B - high inputP0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid A - short circuitP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - circuitP0417Secondary air injection (AIR) solenoid B - circuitP0418Secondary air injection (AIR) solenoid B - circuitP0419Secondary air injection (AIR) pump relay A - circuitP0419Secondary air injection (AIR) pump relay B - circuit malfunction</td><td>Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor,</td></tr> <tr><td>P0408Exhaust gas recirculation (EGR) valve position sensor B - high inputP0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid A - short circuitP0415Secondary air injection (AIR) solenoid B - circuitP0416Secondary air injection (AIR) solenoid B - open circuitP0417Secondary air injection (AIR) solenoid B - open circuitP0418Secondary air injection (AIR) solenoid B - open circuitP0419Secondary air injection (AIR) solenoid B - open circuit</td><td>Viring short to positive, EGR valve position sensor,</td></tr> <tr><td>P0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid A - open circuitP0415Secondary air injection (AIR) solenoid B - short circuitP0416Secondary air injection (AIR) solenoid B - open circuitP0417Secondary air injection (AIR) solenoid B - open circuitP0418Secondary air injection (AIR) solenoid B - open circuitP0419Secondary air injection (AIR) solenoid B - circuit malfunctionP0419Secondary air injection (AIR) pump relay A - circuit malfunction</td><td></td></tr> <tr><td>P0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid A - short circuitP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - circuitP0417Secondary air injection (AIR) solenoid B - open circuitP0418Secondary air injection (AIR) solenoid B - short circuitP0419Secondary air injection (AIR) pump relay A - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction</td><td>Viring, poor connection, EGR sensor, ECM</td></tr> <tr><td>P0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid A - short circuitP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - open circuitP0417Secondary air injection (AIR) solenoid B - open circuitP0418Secondary air injection (AIR) solenoid B - short circuitP0419Secondary air injection (AIR) pump relay A - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction</td><td>Viring, AIR valve, AIR solenoid, ECM</td></tr> <tr><td>P0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid A - short circuitP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - open circuitP0417Secondary air injection (AIR) solenoid B - open circuitP0418Secondary air injection (AIR) solenoid B - short circuitP0419Secondary air injection (AIR) pump relay A - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction</td><td>AIR pump, AIR valve, AIR hose(s)</td></tr> <tr><td>P0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid A - short circuitP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - open circuitP0417Secondary air injection (AIR) solenoid B - short circuitP0418Secondary air injection (AIR) pump relay A - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction</td><td>Viring, AIR solenoid, ECM</td></tr> <tr><td>P0414 Secondary air injection (AIR) solenoid A - short circuit P0415 Secondary air injection (AIR) solenoid B - circuit P0416 Secondary air injection (AIR) solenoid B - open circuit P0417 Secondary air injection (AIR) solenoid B - open circuit P0418 Secondary air injection (AIR) solenoid B - short circuit P0419 Secondary air injection (AIR) pump relay A - circuit P0419 Secondary air injection (AIR) pump relay B - circuit P0419 Catalytic converter system, bank 1 - efficiency below</td><td>Viring open circuit, AIR solenoid, ECM</td></tr> <tr><td>P0415 Secondary air injection (AIR) solenoid B - circuit P0416 Secondary air injection (AIR) solenoid B - open circuit P0417 Secondary air injection (AIR) solenoid B - short circuit P0418 Secondary air injection (AIR) pump relay A - circuit P0419 Secondary air injection (AIR) pump relay B - circuit Catalytic converter system, bank 1 - efficiency below</td><td>Viring short circuit, AIR solenoid, ECM</td></tr> <tr><td>P0416 Secondary air injection (AIR) solenoid B - open circuit P0417 Secondary air injection (AIR) solenoid B - short circuit P0418 Secondary air injection (AIR) pump relay A - circuit P0419 Secondary air injection (AIR) pump relay B - circuit P0419 Catalytic converter system, bank 1 - efficiency below</td><td>Viring, AIR solenoid, ECM</td></tr> <tr><td>P0417 Secondary air injection (AIR) solenoid B - short circuit P0418 Secondary air injection (AIR) pump relay A - circuit P0419 Secondary air injection (AIR) pump relay B - circuit P0419 Catalytic converter system, bank 1 - efficiency below</td><td>Viring open circuit, AIR solenoid, ECM</td></tr> <tr><td>P0418 Secondary air injection (AIR) pump relay A - circuit malfunction P0419 Secondary air injection (AIR) pump relay B - circuit malfunction Catalytic converter system, bank 1 - efficiency below</td><td>Viring short circuit, AIR solenoid, ECM</td></tr> <tr><td>P0419 Secondary air injection (AIR) pump relay B - circuit malfunction Catalytic converter system, bank 1 - efficiency below</td><td>Viring, AIR pump relay, ECM</td></tr> <tr><td>Catalytic converter system bank 1 - efficiency below</td><td>Viring, AIR pump relay, ECM</td></tr> <tr><td>P0420 threshold</td><td></td></tr> <tr><td>P0421 Warm up catalytic converter, bank 1 - efficiency below threshold</td><td>Catalytic converter, wiring, HO2S 2</td></tr> <tr><td>P0422 Main catalytic converter, bank 1 - efficiency below threshold</td><td>Catalytic converter, wiring, HO2S 2</td></tr> <tr><td>P0423 Heated catalytic converter, bank 1 - efficiency below threshold</td><td>Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2</td></tr> <tr><td>P0424 Heated catalytic converter, bank 1 - temperature below threshold</td><td>Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2</td></tr> <tr><td>ufacturer: Lancia Model: Kappa 2,0</td><td>Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2</td></tr>	Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Viring, EGR solenoid, ECM Hose leak/blockage, wiring, EGR valve/solenoid Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM	P0401Exhaust gas recirculation (EGR) system - insufficient flow detectedP0402Exhaust gas recirculation (EGR) system - excessive flow detectedP0403Exhaust gas recirculation (EGR) - circuit malfunctionP0404Exhaust gas recirculation (EGR) system - range/performance problemP0405Exhaust gas recirculation (EGR) valve position sensor A - low inputP0406Exhaust gas recirculation (EGR) valve position sensor A - low inputP0407Exhaust gas recirculation (EGR) valve position sensor A - high inputP0408Exhaust gas recirculation (EGR) valve position sensor B - low inputP0409Exhaust gas recirculation (EGR) valve position sensor B - low inputP0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - short circuitP0414Secondary air injection (AIR) solenoid B - open circuitP0415Secondary air injection (AIR) solenoid B - open circuitP0416Secondary air injection (AIR) pump relay A - circuit malfunctionP0418Secondary air injection (AIR) pump relay A - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction	Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Viring, EGR solenoid, ECM Hose leak/blockage, wiring, EGR valve/solenoid Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM	P0402Exhaust gas recirculation (EGR) system - excessive flow detectedP0403Exhaust gas recirculation (EGR) - circuit malfunctionP0404Exhaust gas recirculation (EGR) system - range/performance problemP0405Exhaust gas recirculation (EGR) valve position sensor A - low inputP0406Exhaust gas recirculation (EGR) valve position sensor A - high inputP0407Exhaust gas recirculation (EGR) valve position sensor B - low inputP0408Exhaust gas recirculation (EGR) valve position sensor B - low inputP0409Exhaust gas recirculation (EGR) valve position sensor B - high inputP0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - open circuit malfunctionP0413Secondary air injection (AIR) solenoid A - short circuit malfunctionP0414Secondary air injection (AIR) solenoid B - circuit malfunctionP0415Secondary air injection (AIR) solenoid B - open circuitP0416Secondary air injection (AIR) solenoid B - short circuitP0417Secondary air injection (AIR) pump relay A - circuit malfunctionP0418Secondary air injection (AIR) pump relay B - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction	Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Viring, EGR solenoid, ECM Hose leak/blockage, wiring, EGR valve/solenoid Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM	P0403 Exhaust gas recirculation (EGR) - circuit malfunction P0404 Exhaust gas recirculation (EGR) system - range/performance problem P0405 Exhaust gas recirculation (EGR) valve position sensor A - low input P0406 Exhaust gas recirculation (EGR) valve position sensor A - high input P0407 Exhaust gas recirculation (EGR) valve position sensor B - low input P0408 Exhaust gas recirculation (EGR) valve position sensor B - low input P0409 Exhaust gas recirculation (EGR) valve position sensor B - high input P0409 Exhaust gas recirculation (EGR) sensor A - circuit malfunction P0410 Secondary air injection (AIR) system - malfunction P0411 Secondary air injection (AIR) system - incorrect flow detected P0412 Secondary air injection (AIR) solenoid A - circuit malfunction P0413 Secondary air injection (AIR) solenoid A - short circuit P0414 Secondary air injection (AIR) solenoid B - open circuit P0415 Secondary air injection (AIR) solenoid B - open circuit P0416 Secondary air injection (AIR) solenoid B - open circuit P0417 Secondary air injection (AIR) solenoid B - short circuit P0418 Secondary air injection (AIR) pump relay A - circuit P0418 Secondary air injecti	Viring, EGR solenoid, ECM Hose leak/blockage, wiring, EGR valve/solenoid Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM	P0404Exhaust gas recirculation (EGR) system - range/performance problemP0405Exhaust gas recirculation (EGR) valve position sensor A - low inputP0406Exhaust gas recirculation (EGR) valve position sensor A - high inputP0407Exhaust gas recirculation (EGR) valve position sensor B - low inputP0408Exhaust gas recirculation (EGR) valve position sensor B - low inputP0409Exhaust gas recirculation (EGR) valve position sensor B - high inputP0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - short circuitP0414Secondary air injection (AIR) solenoid B - circuit malfunctionP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - open circuitP0417Secondary air injection (AIR) solenoid B - open circuitP0418Secondary air injection (AIR) pump relay A - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction	Hose leak/blockage, wiring, EGR valve/solenoid Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM	P0405Exhaust gas recirculation (EGR) valve position sensor A - low inputP0406Exhaust gas recirculation (EGR) valve position sensor A - high inputP0407Exhaust gas recirculation (EGR) valve position sensor B - low inputP0408Exhaust gas recirculation (EGR) valve position sensor B - high inputP0409Exhaust gas recirculation (EGR) valve position sensor B - high inputP0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid B - circuit malfunctionP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - open circuitP0417Secondary air injection (AIR) solenoid B - circuit malfunctionP0418Secondary air injection (AIR) pump relay A - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction	Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM	P0406Exhaust gas recirculation (EGR) valve position sensor A - high inputP0407Exhaust gas recirculation (EGR) valve position sensor B - low inputP0408Exhaust gas recirculation (EGR) valve position sensor B - high inputP0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid B - open circuitP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - circuit malfunctionP0417Secondary air injection (AIR) solenoid B - circuit malfunctionP0418Secondary air injection (AIR) solenoid B - open circuitP0419Secondary air injection (AIR) solenoid B - open circuitP0418Secondary air injection (AIR) solenoid B - open circuitP0419Secondary air injection (AIR) pump relay A - circuit malfunction	Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM	P0407Exhaust gas recirculation (EGR) valve position sensor B - low inputP0408Exhaust gas recirculation (EGR) valve position sensor B - high inputP0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid A - short circuitP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - circuitP0417Secondary air injection (AIR) solenoid B - circuitP0418Secondary air injection (AIR) solenoid B - circuitP0419Secondary air injection (AIR) pump relay A - circuitP0419Secondary air injection (AIR) pump relay B - circuit malfunction	Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor,	P0408Exhaust gas recirculation (EGR) valve position sensor B - high inputP0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid A - short circuitP0415Secondary air injection (AIR) solenoid B - circuitP0416Secondary air injection (AIR) solenoid B - open circuitP0417Secondary air injection (AIR) solenoid B - open circuitP0418Secondary air injection (AIR) solenoid B - open circuitP0419Secondary air injection (AIR) solenoid B - open circuit	Viring short to positive, EGR valve position sensor,	P0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid A - open circuitP0415Secondary air injection (AIR) solenoid B - short circuitP0416Secondary air injection (AIR) solenoid B - open circuitP0417Secondary air injection (AIR) solenoid B - open circuitP0418Secondary air injection (AIR) solenoid B - open circuitP0419Secondary air injection (AIR) solenoid B - circuit malfunctionP0419Secondary air injection (AIR) pump relay A - circuit malfunction		P0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid A - short circuitP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - circuitP0417Secondary air injection (AIR) solenoid B - open circuitP0418Secondary air injection (AIR) solenoid B - short circuitP0419Secondary air injection (AIR) pump relay A - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction	Viring, poor connection, EGR sensor, ECM	P0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid A - short circuitP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - open circuitP0417Secondary air injection (AIR) solenoid B - open circuitP0418Secondary air injection (AIR) solenoid B - short circuitP0419Secondary air injection (AIR) pump relay A - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction	Viring, AIR valve, AIR solenoid, ECM	P0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid A - short circuitP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - open circuitP0417Secondary air injection (AIR) solenoid B - open circuitP0418Secondary air injection (AIR) solenoid B - short circuitP0419Secondary air injection (AIR) pump relay A - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction	AIR pump, AIR valve, AIR hose(s)	P0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid A - short circuitP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - open circuitP0417Secondary air injection (AIR) solenoid B - short circuitP0418Secondary air injection (AIR) pump relay A - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction	Viring, AIR solenoid, ECM	P0414 Secondary air injection (AIR) solenoid A - short circuit P0415 Secondary air injection (AIR) solenoid B - circuit P0416 Secondary air injection (AIR) solenoid B - open circuit P0417 Secondary air injection (AIR) solenoid B - open circuit P0418 Secondary air injection (AIR) solenoid B - short circuit P0419 Secondary air injection (AIR) pump relay A - circuit P0419 Secondary air injection (AIR) pump relay B - circuit P0419 Catalytic converter system, bank 1 - efficiency below	Viring open circuit, AIR solenoid, ECM	P0415 Secondary air injection (AIR) solenoid B - circuit P0416 Secondary air injection (AIR) solenoid B - open circuit P0417 Secondary air injection (AIR) solenoid B - short circuit P0418 Secondary air injection (AIR) pump relay A - circuit P0419 Secondary air injection (AIR) pump relay B - circuit Catalytic converter system, bank 1 - efficiency below	Viring short circuit, AIR solenoid, ECM	P0416 Secondary air injection (AIR) solenoid B - open circuit P0417 Secondary air injection (AIR) solenoid B - short circuit P0418 Secondary air injection (AIR) pump relay A - circuit P0419 Secondary air injection (AIR) pump relay B - circuit P0419 Catalytic converter system, bank 1 - efficiency below	Viring, AIR solenoid, ECM	P0417 Secondary air injection (AIR) solenoid B - short circuit P0418 Secondary air injection (AIR) pump relay A - circuit P0419 Secondary air injection (AIR) pump relay B - circuit P0419 Catalytic converter system, bank 1 - efficiency below	Viring open circuit, AIR solenoid, ECM	P0418 Secondary air injection (AIR) pump relay A - circuit malfunction P0419 Secondary air injection (AIR) pump relay B - circuit malfunction Catalytic converter system, bank 1 - efficiency below	Viring short circuit, AIR solenoid, ECM	P0419 Secondary air injection (AIR) pump relay B - circuit malfunction Catalytic converter system, bank 1 - efficiency below	Viring, AIR pump relay, ECM	Catalytic converter system bank 1 - efficiency below	Viring, AIR pump relay, ECM	P0420 threshold		P0421 Warm up catalytic converter, bank 1 - efficiency below threshold	Catalytic converter, wiring, HO2S 2	P0422 Main catalytic converter, bank 1 - efficiency below threshold	Catalytic converter, wiring, HO2S 2	P0423 Heated catalytic converter, bank 1 - efficiency below threshold	Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2	P0424 Heated catalytic converter, bank 1 - temperature below threshold	Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2	ufacturer: Lancia Model: Kappa 2,0	Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2
Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Viring, EGR solenoid, ECM Hose leak/blockage, wiring, EGR valve/solenoid Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM																																																					
P0401Exhaust gas recirculation (EGR) system - insufficient flow detectedP0402Exhaust gas recirculation (EGR) system - excessive flow detectedP0403Exhaust gas recirculation (EGR) - circuit malfunctionP0404Exhaust gas recirculation (EGR) system - range/performance problemP0405Exhaust gas recirculation (EGR) valve position sensor A - low inputP0406Exhaust gas recirculation (EGR) valve position sensor A - low inputP0407Exhaust gas recirculation (EGR) valve position sensor A - high inputP0408Exhaust gas recirculation (EGR) valve position sensor B - low inputP0409Exhaust gas recirculation (EGR) valve position sensor B - low inputP0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - short circuitP0414Secondary air injection (AIR) solenoid B - open circuitP0415Secondary air injection (AIR) solenoid B - open circuitP0416Secondary air injection (AIR) pump relay A - circuit malfunctionP0418Secondary air injection (AIR) pump relay A - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction	Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Viring, EGR solenoid, ECM Hose leak/blockage, wiring, EGR valve/solenoid Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM																																																				
P0402Exhaust gas recirculation (EGR) system - excessive flow detectedP0403Exhaust gas recirculation (EGR) - circuit malfunctionP0404Exhaust gas recirculation (EGR) system - range/performance problemP0405Exhaust gas recirculation (EGR) valve position sensor A - low inputP0406Exhaust gas recirculation (EGR) valve position sensor A - high inputP0407Exhaust gas recirculation (EGR) valve position sensor B - low inputP0408Exhaust gas recirculation (EGR) valve position sensor B - low inputP0409Exhaust gas recirculation (EGR) valve position sensor B - high inputP0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - open circuit malfunctionP0413Secondary air injection (AIR) solenoid A - short circuit malfunctionP0414Secondary air injection (AIR) solenoid B - circuit malfunctionP0415Secondary air injection (AIR) solenoid B - open circuitP0416Secondary air injection (AIR) solenoid B - short circuitP0417Secondary air injection (AIR) pump relay A - circuit malfunctionP0418Secondary air injection (AIR) pump relay B - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction	Hose leak/blockage, basic setting not carried out (if applicable), wiring, EGR valve, EGR solenoid, ECM Viring, EGR solenoid, ECM Hose leak/blockage, wiring, EGR valve/solenoid Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM																																																				
P0403 Exhaust gas recirculation (EGR) - circuit malfunction P0404 Exhaust gas recirculation (EGR) system - range/performance problem P0405 Exhaust gas recirculation (EGR) valve position sensor A - low input P0406 Exhaust gas recirculation (EGR) valve position sensor A - high input P0407 Exhaust gas recirculation (EGR) valve position sensor B - low input P0408 Exhaust gas recirculation (EGR) valve position sensor B - low input P0409 Exhaust gas recirculation (EGR) valve position sensor B - high input P0409 Exhaust gas recirculation (EGR) sensor A - circuit malfunction P0410 Secondary air injection (AIR) system - malfunction P0411 Secondary air injection (AIR) system - incorrect flow detected P0412 Secondary air injection (AIR) solenoid A - circuit malfunction P0413 Secondary air injection (AIR) solenoid A - short circuit P0414 Secondary air injection (AIR) solenoid B - open circuit P0415 Secondary air injection (AIR) solenoid B - open circuit P0416 Secondary air injection (AIR) solenoid B - open circuit P0417 Secondary air injection (AIR) solenoid B - short circuit P0418 Secondary air injection (AIR) pump relay A - circuit P0418 Secondary air injecti	Viring, EGR solenoid, ECM Hose leak/blockage, wiring, EGR valve/solenoid Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM																																																				
P0404Exhaust gas recirculation (EGR) system - range/performance problemP0405Exhaust gas recirculation (EGR) valve position sensor A - low inputP0406Exhaust gas recirculation (EGR) valve position sensor A - high inputP0407Exhaust gas recirculation (EGR) valve position sensor B - low inputP0408Exhaust gas recirculation (EGR) valve position sensor B - low inputP0409Exhaust gas recirculation (EGR) valve position sensor B - high inputP0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - short circuitP0414Secondary air injection (AIR) solenoid B - circuit malfunctionP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - open circuitP0417Secondary air injection (AIR) solenoid B - open circuitP0418Secondary air injection (AIR) pump relay A - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction	Hose leak/blockage, wiring, EGR valve/solenoid Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM																																																				
P0405Exhaust gas recirculation (EGR) valve position sensor A - low inputP0406Exhaust gas recirculation (EGR) valve position sensor A - high inputP0407Exhaust gas recirculation (EGR) valve position sensor B - low inputP0408Exhaust gas recirculation (EGR) valve position sensor B - high inputP0409Exhaust gas recirculation (EGR) valve position sensor B - high inputP0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid B - circuit malfunctionP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - open circuitP0417Secondary air injection (AIR) solenoid B - circuit malfunctionP0418Secondary air injection (AIR) pump relay A - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction	Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM																																																				
P0406Exhaust gas recirculation (EGR) valve position sensor A - high inputP0407Exhaust gas recirculation (EGR) valve position sensor B - low inputP0408Exhaust gas recirculation (EGR) valve position sensor B - high inputP0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid B - open circuitP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - circuit malfunctionP0417Secondary air injection (AIR) solenoid B - circuit malfunctionP0418Secondary air injection (AIR) solenoid B - open circuitP0419Secondary air injection (AIR) solenoid B - open circuitP0418Secondary air injection (AIR) solenoid B - open circuitP0419Secondary air injection (AIR) pump relay A - circuit malfunction	Viring short to positive, EGR valve position sensor, ECM Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor, ECM																																																				
P0407Exhaust gas recirculation (EGR) valve position sensor B - low inputP0408Exhaust gas recirculation (EGR) valve position sensor B - high inputP0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid A - short circuitP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - circuitP0417Secondary air injection (AIR) solenoid B - circuitP0418Secondary air injection (AIR) solenoid B - circuitP0419Secondary air injection (AIR) pump relay A - circuitP0419Secondary air injection (AIR) pump relay B - circuit malfunction	Viring short to earth, EGR valve position sensor, ECM Viring short to positive, EGR valve position sensor,																																																				
P0408Exhaust gas recirculation (EGR) valve position sensor B - high inputP0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid A - short circuitP0415Secondary air injection (AIR) solenoid B - circuitP0416Secondary air injection (AIR) solenoid B - open circuitP0417Secondary air injection (AIR) solenoid B - open circuitP0418Secondary air injection (AIR) solenoid B - open circuitP0419Secondary air injection (AIR) solenoid B - open circuit	Viring short to positive, EGR valve position sensor,																																																				
P0409Exhaust gas recirculation (EGR) sensor A - circuit malfunctionP0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid A - open circuitP0415Secondary air injection (AIR) solenoid B - short circuitP0416Secondary air injection (AIR) solenoid B - open circuitP0417Secondary air injection (AIR) solenoid B - open circuitP0418Secondary air injection (AIR) solenoid B - open circuitP0419Secondary air injection (AIR) solenoid B - circuit malfunctionP0419Secondary air injection (AIR) pump relay A - circuit malfunction																																																					
P0410Secondary air injection (AIR) system - malfunctionP0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid A - short circuitP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - circuitP0417Secondary air injection (AIR) solenoid B - open circuitP0418Secondary air injection (AIR) solenoid B - short circuitP0419Secondary air injection (AIR) pump relay A - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction	Viring, poor connection, EGR sensor, ECM																																																				
P0411Secondary air injection (AIR) system - incorrect flow detectedP0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid A - short circuitP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - open circuitP0417Secondary air injection (AIR) solenoid B - open circuitP0418Secondary air injection (AIR) solenoid B - short circuitP0419Secondary air injection (AIR) pump relay A - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction	Viring, AIR valve, AIR solenoid, ECM																																																				
P0412Secondary air injection (AIR) solenoid A - circuit malfunctionP0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid A - short circuitP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - open circuitP0417Secondary air injection (AIR) solenoid B - open circuitP0418Secondary air injection (AIR) solenoid B - short circuitP0419Secondary air injection (AIR) pump relay A - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction	AIR pump, AIR valve, AIR hose(s)																																																				
P0413Secondary air injection (AIR) solenoid A - open circuitP0414Secondary air injection (AIR) solenoid A - short circuitP0415Secondary air injection (AIR) solenoid B - circuit malfunctionP0416Secondary air injection (AIR) solenoid B - open circuitP0417Secondary air injection (AIR) solenoid B - short circuitP0418Secondary air injection (AIR) pump relay A - circuit malfunctionP0419Secondary air injection (AIR) pump relay B - circuit malfunction	Viring, AIR solenoid, ECM																																																				
P0414 Secondary air injection (AIR) solenoid A - short circuit P0415 Secondary air injection (AIR) solenoid B - circuit P0416 Secondary air injection (AIR) solenoid B - open circuit P0417 Secondary air injection (AIR) solenoid B - open circuit P0418 Secondary air injection (AIR) solenoid B - short circuit P0419 Secondary air injection (AIR) pump relay A - circuit P0419 Secondary air injection (AIR) pump relay B - circuit P0419 Catalytic converter system, bank 1 - efficiency below	Viring open circuit, AIR solenoid, ECM																																																				
P0415 Secondary air injection (AIR) solenoid B - circuit P0416 Secondary air injection (AIR) solenoid B - open circuit P0417 Secondary air injection (AIR) solenoid B - short circuit P0418 Secondary air injection (AIR) pump relay A - circuit P0419 Secondary air injection (AIR) pump relay B - circuit Catalytic converter system, bank 1 - efficiency below	Viring short circuit, AIR solenoid, ECM																																																				
P0416 Secondary air injection (AIR) solenoid B - open circuit P0417 Secondary air injection (AIR) solenoid B - short circuit P0418 Secondary air injection (AIR) pump relay A - circuit P0419 Secondary air injection (AIR) pump relay B - circuit P0419 Catalytic converter system, bank 1 - efficiency below	Viring, AIR solenoid, ECM																																																				
P0417 Secondary air injection (AIR) solenoid B - short circuit P0418 Secondary air injection (AIR) pump relay A - circuit P0419 Secondary air injection (AIR) pump relay B - circuit P0419 Catalytic converter system, bank 1 - efficiency below	Viring open circuit, AIR solenoid, ECM																																																				
P0418 Secondary air injection (AIR) pump relay A - circuit malfunction P0419 Secondary air injection (AIR) pump relay B - circuit malfunction Catalytic converter system, bank 1 - efficiency below	Viring short circuit, AIR solenoid, ECM																																																				
P0419 Secondary air injection (AIR) pump relay B - circuit malfunction Catalytic converter system, bank 1 - efficiency below	Viring, AIR pump relay, ECM																																																				
Catalytic converter system bank 1 - efficiency below	Viring, AIR pump relay, ECM																																																				
P0420 threshold																																																					
P0421 Warm up catalytic converter, bank 1 - efficiency below threshold	Catalytic converter, wiring, HO2S 2																																																				
P0422 Main catalytic converter, bank 1 - efficiency below threshold	Catalytic converter, wiring, HO2S 2																																																				
P0423 Heated catalytic converter, bank 1 - efficiency below threshold	Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2																																																				
P0424 Heated catalytic converter, bank 1 - temperature below threshold	Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2																																																				
ufacturer: Lancia Model: Kappa 2,0	Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2 Catalytic converter, wiring, HO2S 2																																																				

P0425	Catalytic converter temperature sensor, bank 1	Wiring, poor connection, catalytic converter temperature sensor, ECM
P0426	Catalytic converter temperature sensor, bank 1 - range/performance	Wiring, poor connection, catalytic converter temperature sensor
P0427	Catalytic converter temperature sensor, bank 1 - low input	Wiring short to earth, catalytic converter temperature sensor, ECM
P0428	Catalytic converter temperature sensor, bank 1 - high input	Wiring short to positive, catalytic converter temperature sensor, ECM
P0429	Catalytic converter heater, bank 1 - control circuit malfunction	Wiring, relay, ECM
P0430	Catalytic converter system, bank 2 - efficiency below threshold	Catalytic converter, wiring, HO2S 2
P0431	Warm up catalytic converter, bank 2 - efficiency below threshold	Catalytic converter, wiring, HO2S 2
P0432	Main catalytic converter, bank 2 - efficiency below threshold	Catalytic converter, wiring, HO2S 2
P0433	Heated catalytic converter, bank 2 - efficiency below threshold	Catalytic converter, wiring, HO2S 2
P0434	Heated catalytic converter, bank 2 - temperature below threshold	Catalytic converter, wiring, HO2S 2
P0435	Catalytic converter temperature sensor, bank 2	Wiring, poor connection, catalytic converter temperature sensor, ECM
P0436	Catalytic converter temperature sensor, bank 2 - range/performance	Wiring, poor connection, catalytic converter temperature sensor
P0437	Catalytic converter temperature sensor, bank 2 - low input	Wiring short to earth, catalytic converter temperature sensor, ECM
P0438	Catalytic converter temperature sensor, bank 2 - high input	Wiring short to positive, catalytic converter temperature sensor, ECM
P0439	Catalytic converter heater, bank 2 - control circuit malfunction	Wiring, relay, ECM
P0440	Evaporative emission (EVAP) system - malfunction	Hose connection(s), intake leak, EVAP canister purge valve
P0441	Evaporative emission (EVAP) system - incorrect flow detected	Hose connection(s), intake leak, EVAP canister purge valve
P0442	Evaporative emission (EVAP) system - small leak detected	Hose connection(s), intake leak, EVAP canister, EVAP canister purge valve
P0443	Evaporative emission (EVAP) canister purge valve - circuit malfunction	Wiring, EVAP canister purge valve, ECM
P0444	Evaporative emission (EVAP) canister purge valve - open circuit	Wiring open circuit, EVAP canister purge valve, ECM
P0445	Evaporative emission (EVAP) canister purge valve - short circuit	Wiring short circuit, EVAP canister purge valve, ECM
P0446	Evaporative emission (EVAP) system, vent control - circuit malfunction	Wiring, EVAP canister purge valve, ECM
P0447	Evaporative emission (EVAP) system, vent control - open circuit	Wiring open circuit, EVAP canister purge valve, ECM
P0448	Evaporative emission (EVAP) system, vent control - short circuit	Wiring short circuit, EVAP canister purge valve, ECM
P0449	Evaporative emission (EVAP) system, vent valve - circuit malfunction	Wiring, EVAP canister purge valve, ECM
P0450	Evaporative emission (EVAP) pressure sensor - circuit malfunction	Wiring, EVAP pressure sensor, ECM
	Evaporative emission (EVAP) pressure sensor -	EVAP pressure sensor
P0451	range/performance problem	

P0454 Evaporative amission (EVAP) pressure sensor - circuit Wiring, poor connection, EVAP pressure sensor, ECM P0455 Evaporative emission (EVAP) system - large leak detected Hose connection(s), intake leak, EVAP canister, EVAP canister purge valve ensor P0456 Evaporative emission (EVAP) system - very small leak detected Mechanical fault, hose connection(s), EVAP pressure sensor P0457 Evaporative emission (EVAP) system, EVAP valve - (inter cap loose/off) Wiring short to earth, EVAP valve P0458 Evaporative emission (EVAP) system, EVAP valve - circuit high Wiring short to positive, EVAP valve P0459 Evaporative emission (EVAP) system, EVAP valve - dicuit low Wiring short to positive, EVAP valve P0450 Fuel tank level sensor - circuit mafunction Wiring, fuel tank level sensor, ECM P0461 Fuel tank level sensor - iow input Wiring, short to positive, fuel tank level sensor, ECM P0462 Fuel tank level sensor - circuit mafunction Wiring, short to positive, fuel tank level sensor, ECM P0464 Fuel tank level sensor - circuit intermittent Wiring, short to positive, fuel tank level sensor, ECM P0464 Fuel tank level sensor - circuit intermittent Wiring short to positive, EVAP canister purge flow sensor - circuit mafunction P0465 Evapo	P0453	Evaporative emission (EVAP) pressure sensor - high input	Wiring short to positive, EVAP pressure sensor, ECM
Po455 Evaporative emission (EVAP) system - large leak Hose connection(s), intake leak, EVAP canister purge valve P0456 Evaporative emission (EVAP) system - leak detected Mechanical fault, hose connection(s), EVAP pressure P0457 Evaporative emission (EVAP) system - leak detected Mechanical fault, hose connection(s), EVAP pressure P0458 Evaporative emission (EVAP) system, EVAP valve - crouit low Wring short to positive, EVAP valve P0458 Evaporative emission (EVAP) system, EVAP valve - crouit high Wring short to positive, EVAP valve P0458 Evaporative emission (EVAP) system, EVAP valve - crouit high Wring short to positive, EVAP valve P0469 Fuel tank level sensor - circuit malfunction Wring, fuel tank level sensor, ECM P0462 Fuel tank level sensor - low input Wring short to partive, fuel tank level sensor, ECM P0463 Fuel tank level sensor - low input Wring, bort to partive, fuel tank level sensor, ECM P0464 Fuel tank level sensor - low input Wring short to partive, fuel tank level sensor, ECM P0465 Evaporative emission (EVAP) canister purge flow sensor Wring, bort to partive, fuel tank level sensor, ECM P0466 Evaporative emission (EVAP) canister purge flow sensor Wring short to partive, EVAP canister pur	P0454	Evaporative emission (EVAP) pressure sensor - circuit intermittent	Wiring, poor connection, EVAP pressure sensor, ECM
Po466 Evaporative emission (EVAP) system - very small leak Mechanical fault, hose connection(s), EVAP pressure sensor P0467 Evaporative emission (EVAP) system - Veak detected (tiller cap loose/off) Mechanical fault, hose connection(s), EVAP pressure sensor P0458 Evaporative emission (EVAP) system, EVAP valve - circuit low Wring short to earth, EVAP valve dircuit high P0469 Evaporative emission (EVAP) system, EVAP valve - circuit high Wring short to positive, EVAP valve P0460 Fuel tank level sensor - circuit malfunction Wring, fuel tank level sensor, ECM P0461 Fuel tank level sensor - low input Wring short to pastive, fuel tank level sensor, ECM P0462 Fuel tank level sensor - low input Wring short to earth, fuel tank level sensor, ECM P0463 Fuel tank level sensor - low input Wring short to pastive, fuel tank level sensor, ECM P0464 Fuel tank level sensor - circuit intermittent Wring, bort to earth, EVAP canister purge flow sensor -circuit malfunction P0466 Evaporative emission (EVAP) canister purge flow sensor -circuit intermittent Wring short to positive, EVAP canister purge flow sensor, ECM P0468 Evaporative emission (EVAP) canister purge flow sensor -circuit intermittent Wring short to positive, EVAP canister purge flow sensor, ECM <td< td=""><td>P0455</td><td>Evaporative emission (EVAP) system - large leak detected</td><td>Hose connection(s), intake leak, EVAP canister, EVAP canister purge valve</td></td<>	P0455	Evaporative emission (EVAP) system - large leak detected	Hose connection(s), intake leak, EVAP canister, EVAP canister purge valve
P0457 Evaporative emission (EVAP) system - leak detected (filler cap loss/off) Mechanical fault, hose connection(s), EVAP pressure sensor P0458 Evaporative emission (EVAP) system, EVAP valve - circuit high Wiring short to earth, EVAP valve P0459 Evaporative emission (EVAP) system, EVAP valve - circuit high Wiring short to positive, EVAP valve P0460 Fuel tank level sensor - circuit malfunction Wiring, fuel tank level sensor, ECM P0461 Fuel tank level sensor - low input Wiring short to positive, fuel tank level sensor, ECM P0462 Fuel tank level sensor - low input Wiring, short to positive, fuel tank level sensor, ECM P0463 Fuel tank level sensor - low input Wiring, poor connection, fuel tank level sensor, ECM P0464 Fuel tank level sensor - low input Wiring, short to positive, fuel tank level sensor, ECM P0465 Evaporative emission (EVAP) canister purge flow sensor - circuit malfunction EVAP canister purge flow sensor P0466 Evaporative emission (EVAP) canister purge flow sensor - high input Wiring, short to positive, EVAP canister purge flow sensor, ECM P0468 Evaporative emission (EVAP) canister purge flow sensor - circuit intermittent Wiring short to positive, exhaust gas pressure sensor, ECM P0470 Exhaust gas pressure	P0456	Evaporative emission (EVAP) system - very small leak detected	Mechanical fault, hose connection(s), EVAP pressure sensor
P0458 Evaporative emission (EVAP) system, EVAP valve - drout low Wiring short to earth, EVAP valve P0459 Evaporative emission (EVAP) system, EVAP valve - dricut high Wiring short to positive, EVAP valve P0460 Fuel tank level sensor - circuit maffunction Wiring, fuel tank level sensor, ECM P0461 Fuel tank level sensor - inage/performance problem Wiring, fuel tank level sensor, ECM P0462 Fuel tank level sensor - oricuit intermittent Wiring short to positive, fuel tank level sensor, ECM P0463 Fuel tank level sensor - oricuit intermittent Wiring, EVAP canister purge flow sensor, ECM P0464 Fuel tank level sensor - oricuit intermittent Wiring, EVAP canister purge flow sensor, ECM P0465 Evaporative emission (EVAP) canister purge flow sensor EVAP canister purge flow sensor P0466 Evaporative emission (EVAP) canister purge flow sensor Wiring short to positive, EVAP canister purge flow sensor P0467 Fusporative emission (EVAP) canister purge flow sensor Wiring short to positive, eXAP canister purge flow sensor P0468 Evaporative emission (EVAP) canister purge flow sensor Wiring short to positive, eXAP canister purge flow sensor P0470 Exhaust gas pressure sensor - inow input Wiring short to positive, exhaust gas p	P0457	Evaporative emission (EVAP) system - leak detected (filler cap loose/off)	Mechanical fault, hose connection(s), EVAP pressure sensor
P0459 Evaporative emission (EVAP) system, EVAP valve - circuit high Wiring short to positive, EVAP valve P0460 Fuel tank level sensor - circuit malfunction Wiring, fuel tank level sensor, ECM P0461 Fuel tank level sensor - iow input Wiring short to earth, fuel tank level sensor, ECM P0463 Fuel tank level sensor - iow input Wiring short to earth, fuel tank level sensor, ECM P0464 Fuel tank level sensor - circuit intermittent Wiring, poor connection, fuel tank level sensor, ECM P0464 Evaporative emission (EVAP) canister purge flow sensor - circuit malfunction EVAP canister purge flow sensor - range/performance problem P0466 Evaporative emission (EVAP) canister purge flow sensor - range/performance problem EVAP canister purge flow sensor - range/performance problem P0467 Evaporative emission (EVAP) canister purge flow sensor - circuit intermittent Wiring short to earth, EVAP canister purge flow sensor, ECM P0468 Evaporative emission (EVAP) canister purge flow sensor - circuit intermittent Wiring, not to positive, EVAP canister purge flow sensor, ECM P0470 Exhaust gas pressure sensor - range/performance problem Exhaust gas pressure sensor - icruit malfunction P0471 Exhaust gas pressure sensor - inge/performance problem Exhaust gas pressure sensor, ECM <t< td=""><td>P0458</td><td>Evaporative emission (EVAP) system, EVAP valve - circuit low</td><td>Wiring short to earth, EVAP valve</td></t<>	P0458	Evaporative emission (EVAP) system, EVAP valve - circuit low	Wiring short to earth, EVAP valve
P0460 Fuel tank level sensor - circuit malfunction Wiring, fuel tank level sensor, ECM P0461 Fuel tank level sensor - nange/performance problem Wiring short to earth, fuel tank level sensor, ECM P0462 Fuel tank level sensor - nange/performance problem Wiring short to positive, fuel tank level sensor, ECM P0463 Fuel tank level sensor - circuit intermittent Wiring, poor connection, fuel tank level sensor, ECM P0464 Fuel tank level sensor - circuit intermittent Wiring, EVAP canister purge flow sensor - range/performance problem P0466 Evaporative emission (EVAP) canister purge flow sensor - low input EVAP canister purge flow sensor - low input P0467 Evaporative emission (EVAP) canister purge flow sensor - low input Wiring short to earth, EVAP canister purge flow sensor ECM P0468 Evaporative emission (EVAP) canister purge flow sensor - low input Wiring short to positive, EVAP canister purge flow sensor, ECM P0470 Exhaust gas pressure sensor - circuit malfunction Wiring, hout to earth, exhaust gas pressure sensor, - circuit informittent P0471 Exhaust gas pressure sensor - low input Wiring short to positive, exhaust gas pressure sensor, ECM P0472 Exhaust gas pressure sensor - low input Wiring short to positive, exhaust gas pressure sensor, ECM	P0459	Evaporative emission (EVAP) system, EVAP valve - circuit high	Wiring short to positive, EVAP valve
P0461 Fuel tank level sensor - range/performance problem Wiring, fuel tank level sensor P0462 Fuel tank level sensor - how input Wiring short to parth, fuel tank level sensor, ECM P0463 Fuel tank level sensor - high input Wiring, poor connection, fuel tank level sensor, ECM P0464 Fuel tank level sensor - circuit intermittent Wiring, EVAP canister purge flow sensor - circuit maffunction Evaporative emission (EVAP) canister purge flow sensor EVAP canister purge flow sensor P0466 Evaporative emission (EVAP) canister purge flow sensor Wiring short to pastive, EVAP canister purge flow sensor P0467 Evaporative emission (EVAP) canister purge flow sensor Wiring short to positive, EVAP canister purge flow sensor P0468 Evaporative emission (EVAP) canister purge flow sensor Wiring short to positive, EVAP canister purge flow sensor P0469 Evaporative emission (EVAP) canister purge flow sensor Wiring, poor connection, EVAP canister purge flow sensor P0468 Evaporative emission (EVAP) canister purge flow sensor Wiring, poor connection, EVAP canister purge flow sensor P0469 Evaporative emission (EVAP) canister purge flow sensor Wiring, poor connection, EVAP canister purge flow sensor P0460 Evaporative emission (EVAP) canister purge f	P0460	Fuel tank level sensor - circuit malfunction	Wiring, fuel tank level sensor, ECM
P0462 Fuel tank level sensor - low input Wiring short to earth, fuel tank level sensor, ECM P0463 Fuel tank level sensor - ligh input Wiring short to positive, fuel tank level sensor, ECM P0464 Fuel tank level sensor - circuit intermittent Wiring, poor connection, fuel tank level sensor, ECM P0465 Evaporative emission (EVAP) canister purge flow sensor - circuit maffunction EVAP canister purge flow sensor - arge/performance problem P0466 Evaporative emission (EVAP) canister purge flow sensor - low input EVAP canister purge flow sensor ECM P0467 Evaporative emission (EVAP) canister purge flow sensor - low input Wiring short to positive, EVAP canister purge flow sensor ECM P0468 Evaporative emission (EVAP) canister purge flow sensor - low input Wiring short to positive, EVAP canister purge flow sensor, ECM P0469 Evaporative emission (EVAP) canister purge flow sensor - low input Wiring, poor connection, EVAP canister purge flow sensor, ECM P0470 Exhaust gas pressure sensor - circuit maffunction Wiring short to positive, eVAP canister purge flow sensor, ECM P0471 Exhaust gas pressure sensor - low input Wiring short to positive, exhaust gas pressure sensor, ECM P0473 Exhaust gas pressure sensor - circuit intermittent Wiring, short to positive, exhaust gas pressure sensor, EC	P0461	Fuel tank level sensor - range/performance problem	Wiring, fuel tank level sensor
P0463 Fuel tank level sensor - high input Wiring short to positive, fuel tank level sensor, ECM P0464 Fuel tank level sensor - circuit intermittent Wiring, poor connection, fuel tank level sensor, ECM P0465 Evaporative emission (EVAP) canister purge flow sensor - range/performance problem EVAP canister purge flow sensor - low input P0466 Evaporative emission (EVAP) canister purge flow sensor - low input EVAP canister purge flow sensor ECM P0467 Evaporative emission (EVAP) canister purge flow sensor - low input Wiring short to positive, EVAP canister purge flow sensor ECM P0468 Evaporative emission (EVAP) canister purge flow sensor - low input Wiring, short to positive, EVAP canister purge flow sensor, ECM P0469 Evaporative emission (EVAP) canister purge flow sensor - circuit intermittent Wiring, short to positive, EVAP canister purge flow sensor, ECM P0470 Exhaust gas pressure sensor - circuit malfunction Wiring short to earth, exhaust gas pressure sensor, ECM P0471 Exhaust gas pressure sensor - low input Wiring short to positive, exhaust gas pressure sensor, ECM P0473 Exhaust gas pressure sensor - low input Wiring short to positive, exhaust gas pressure sensor, ECM P0474 Exhaust gas pressure sensor - circuit intermittent Wiring short to positive, exhaust gas pressure	P0462	Fuel tank level sensor - low input	Wiring short to earth, fuel tank level sensor, ECM
P0464 Fuel tank level sensor - circuit intermittent Wiring, poor connection, fuel tank level sensor, ECM P0465 Evaporative emission (EVAP) canister purge flow sensor - circuit malfunction Wiring, EVAP canister purge flow sensor P0466 Evaporative emission (EVAP) canister purge flow sensor - range/performance problem EVAP canister purge flow sensor P0467 Evaporative emission (EVAP) canister purge flow sensor - low input Wiring short to earth, EVAP canister purge flow sensor ECM P0468 Evaporative emission (EVAP) canister purge flow sensor - ligh input Wiring short to positive, EVAP canister purge flow sensor - circuit intermittent P0469 Evaporative emission (EVAP) canister purge flow sensor - circuit intermittent Wiring, poor connection, EVAP canister purge flow sensor, ECM P0470 Exhaust gas pressure sensor - circuit malfunction Wiring short to positive, exhaust gas pressure sensor, ECM P0471 Exhaust gas pressure sensor - low input Wiring short to positive, exhaust gas pressure sensor, ECM P0473 Exhaust gas pressure sensor - low input Wiring short to positive, exhaust gas pressure sensor, ECM P0474 Exhaust gas pressure control valve - circuit malfunction Wiring short to positive, exhaust gas pressure sensor, ECM P0475 Exhaust gas pressure control valve - range/performance problem	P0463	Fuel tank level sensor - high input	Wiring short to positive, fuel tank level sensor, ECM
P0465 Evaporative emission (EVAP) canister purge flow sensor - circuit malfunction Wiring, EVAP canister purge flow sensor EVAP canister purge flow sensor P0466 Evaporative emission (EVAP) canister purge flow sensor - low input EVAP canister purge flow sensor ECM P0467 Evaporative emission (EVAP) canister purge flow sensor - low input Wiring short to earth, EVAP canister purge flow sensor ECM P0468 Evaporative emission (EVAP) canister purge flow sensor - low input Wiring, short to positive, EVAP canister purge flow sensor, ECM P0469 Evaporative emission (EVAP) canister purge flow sensor - circuit intermittent Wiring, poor connection, EVAP canister purge flow sensor, ECM P0470 Exhaust gas pressure sensor - circuit malfunction Wiring, short to positive, exhaust gas pressure sensor, ECM P0471 Exhaust gas pressure sensor - low input Wiring short to positive, exhaust gas pressure sensor, ECM P0472 Exhaust gas pressure sensor - low input Wiring short to positive, exhaust gas pressure sensor, ECM P0473 Exhaust gas pressure control valve - circuit intermittent Wiring, short to positive, exhaust gas pressure sensor, ECM P0474 Exhaust gas pressure control valve - circuit intermittent Wiring short to positive, exhaust gas pressure control valve, ECM P0475 Exhaust gas pressure control valve - low	P0464	Fuel tank level sensor - circuit intermittent	Wiring, poor connection, fuel tank level sensor, ECM
P0466 Evaporative emission (EVAP) canister purge flow sensor EVAP canister purge flow sensor P0467 Evaporative emission (EVAP) canister purge flow sensor Wiring short to earth, EVAP canister purge flow sensor P0468 Evaporative emission (EVAP) canister purge flow sensor Wiring short to positive, EVAP canister purge flow sensor P0469 Evaporative emission (EVAP) canister purge flow sensor Wiring, poor connection, EVAP canister purge flow sensor, ECM P0469 Evaporative emission (EVAP) canister purge flow sensor, ECM Wiring, exhaust gas pressure sensor - circuit maffunction P0470 Exhaust gas pressure sensor - circuit maffunction Wiring, exhaust gas pressure sensor, ECM P0471 Exhaust gas pressure sensor - low input Wiring short to positive, exhaust gas pressure sensor, ECM P0472 Exhaust gas pressure sensor - low input Wiring short to positive, exhaust gas pressure sensor, ECM P0473 Exhaust gas pressure sensor - low input Wiring short to positive, exhaust gas pressure sensor, ECM P0474 Exhaust gas pressure sensor - circuit intermittent Wiring, poor connection, exhaust gas pressure sensor, ECM P0474 Exhaust gas pressure sensor - circuit intermittent Wiring short to positive, exhaust gas pressure sensor, ECM P0476 Exhaust gas	P0465	Evaporative emission (EVAP) canister purge flow sensor - circuit malfunction	Wiring, EVAP canister purge flow sensor, ECM
P0467 Evaporative emission (EVAP) canister purge flow sensor I-low input Wiring short to earth, EVAP canister purge flow sensor ECM P0468 Evaporative emission (EVAP) canister purge flow sensor I-dig input Wiring, boor connection, EVAP canister purge flow sensor, ECM P0469 Evaporative emission (EVAP) canister purge flow sensor - circuit intermittent Wiring, poor connection, EVAP canister purge flow sensor, ECM P0470 Exhaust gas pressure sensor - circuit malfunction Wiring, exhaust gas pressure sensor, ECM P0471 Exhaust gas pressure sensor - range/performance problem Exhaust gas pressure sensor P0472 Exhaust gas pressure sensor - low input Wiring, short to earth, exhaust gas pressure sensor, ECM P0473 Exhaust gas pressure sensor - low input Wiring, poor connection, exhaust gas pressure sensor, ECM P0474 Exhaust gas pressure sensor - circuit intermittent Wiring, opor connection, exhaust gas pressure sensor, ECM P0475 Exhaust gas pressure control valve - circuit malfunction Wiring, exhaust gas pressure control valve, ECM P0476 Exhaust gas pressure control valve - range/performance problem Exhaust gas pressure control valve - low input P0476 Exhaust gas pressure control valve - range/performance problem Exhaust gas pressure control valve - low input	P0466	Evaporative emission (EVAP) canister purge flow sensor - range/performance problem	EVAP canister purge flow sensor
P0468 Evaporative emission (EVAP) canister purge flow sensor -high input Wiring short to positive, EVAP canister purge flow sensor, ECM P0469 Evaporative emission (EVAP) canister purge flow sensor - circuit intermittent Wiring, poor connection, EVAP canister purge flow sensor, ECM P0470 Exhaust gas pressure sensor - circuit malfunction Wiring, exhaust gas pressure sensor, ECM P0471 Exhaust gas pressure sensor - range/performance problem Exhaust gas pressure sensor P0472 Exhaust gas pressure sensor - low input Wiring short to earth, exhaust gas pressure sensor, ECM P0473 Exhaust gas pressure sensor - low input Wiring, poor connection, exhaust gas pressure sensor, ECM P0474 Exhaust gas pressure sensor - liqui intermittent Wiring, poor connection, exhaust gas pressure sensor, ECM P0474 Exhaust gas pressure control valve - circuit malfunction Wiring, exhaust gas pressure control valve, ECM P0475 Exhaust gas pressure control valve - low input Wiring short to positive, exhaust gas pressure control valve, ECM P0476 Exhaust gas pressure control valve - low input Wiring short to positive, exhaust gas pressure control valve, ECM P0477 Exhaust gas pressure control valve - low input Wiring short to positive, exhaust gas pressure control valve, ECM <	P0467	Evaporative emission (EVAP) canister purge flow sensor - low input	Wiring short to earth, EVAP canister purge flow sensor, ECM
P0469 Evaporative emission (EVAP) canister purge flow sensor Wiring, poor connection, EVAP canister purge flow sensor, ECM P0470 Exhaust gas pressure sensor - circuit malfunction Wiring, exhaust gas pressure sensor, ECM P0471 Exhaust gas pressure sensor - range/performance problem Exhaust gas pressure sensor P0472 Exhaust gas pressure sensor - low input Wiring short to earth, exhaust gas pressure sensor, ECM P0473 Exhaust gas pressure sensor - low input Wiring short to positive, exhaust gas pressure sensor, ECM P0474 Exhaust gas pressure sensor - low input Wiring, poor connection, exhaust gas pressure sensor, ECM P0475 Exhaust gas pressure sensor - circuit intermittent Wiring, poor connection, exhaust gas pressure sensor, ECM P0476 Exhaust gas pressure control valve - circuit malfunction Wiring, exhaust gas pressure control valve, ECM P0477 Exhaust gas pressure control valve - range/performance problem Exhaust gas pressure control valve - range/performance P0476 Exhaust gas pressure control valve - range/performance Exhaust gas pressure control valve, ECM P0477 Exhaust gas pressure control valve - range/performance Exhaust gas pressure control valve, ECM P0477 Exhaust gas pressure control valve - low input	P0468	Evaporative emission (EVAP) canister purge flow sensor - high input	Wiring short to positive, EVAP canister purge flow sensor, ECM
P0470 Exhaust gas pressure sensor - circuit malfunction Wiring, exhaust gas pressure sensor, ECM P0471 Exhaust gas pressure sensor - range/performance problem Exhaust gas pressure sensor Exhaust gas pressure sensor P0472 Exhaust gas pressure sensor - low input Wiring short to earth, exhaust gas pressure sensor, ECM P0473 Exhaust gas pressure sensor - low input Wiring short to positive, exhaust gas pressure sensor, ECM P0474 Exhaust gas pressure sensor - circuit intermittent Wiring, poor connection, exhaust gas pressure sensor, ECM P0475 Exhaust gas pressure control valve - circuit malfunction Wiring short to earth, exhaust gas pressure sensor, ECM P0476 Exhaust gas pressure control valve - circuit malfunction Wiring, exhaust gas pressure control valve, ECM P0477 Exhaust gas pressure control valve - range/performance problem Exhaust gas pressure control valve - range/performance P0476 Exhaust gas pressure control valve - low input Wiring short to earth, exhaust gas pressure control valve, ECM P0477 Exhaust gas pressure control valve - low input Wiring short to positive, exhaust gas pressure control valve, ECM P0478 Exhaust gas pressure control valve - low input Wiring short to positive, exhaust gas pressure control valve, ECM	P0469	Evaporative emission (EVAP) canister purge flow sensor - circuit intermittent	Wiring, poor connection, EVAP canister purge flow sensor, ECM
P0471 Exhaust gas pressure sensor - range/performance problem Exhaust gas pressure sensor P0472 Exhaust gas pressure sensor - low input Wiring short to earth, exhaust gas pressure sensor, ECM P0473 Exhaust gas pressure sensor - low input Wiring short to positive, exhaust gas pressure sensor, ECM P0473 Exhaust gas pressure sensor - high input Wiring, short to positive, exhaust gas pressure sensor, ECM P0474 Exhaust gas pressure sensor - circuit intermittent Wiring, poor connection, exhaust gas pressure sensor, ECM P0475 Exhaust gas pressure control valve - circuit malfunction Wiring, exhaust gas pressure control valve, ECM P0476 Exhaust gas pressure control valve - range/performance problem Exhaust gas pressure control valve - range/performance P0477 Exhaust gas pressure control valve - low input Wiring short to earth, exhaust gas pressure control valve, ECM P0478 Exhaust gas pressure control valve - low input Wiring, poor connection, exhaust gas pressure control valve, ECM P0479 Exhaust gas pressure control valve - circuit intermittent Wiring, poor connection, exhaust gas pressure control valve, ECM P0480 Engine coolant blower motor 1 - circuit malfunction Wiring, engine coolant blower motor, ECM P0481 Engine coolant	P0470	Exhaust gas pressure sensor - circuit malfunction	Wiring, exhaust gas pressure sensor, ECM
P0472 Exhaust gas pressure sensor - low input Wiring short to earth, exhaust gas pressure sensor, ECM P0473 Exhaust gas pressure sensor - high input Wiring short to positive, exhaust gas pressure sensor, ECM P0474 Exhaust gas pressure sensor - circuit intermittent Wiring, poor connection, exhaust gas pressure sensor, ECM P0475 Exhaust gas pressure control valve - circuit malfunction Wiring, exhaust gas pressure control valve, ECM P0476 Exhaust gas pressure control valve - range/performance problem Exhaust gas pressure control valve - invertigation input P0477 Exhaust gas pressure control valve - low input Wiring short to earth, exhaust gas pressure control valve P0476 Exhaust gas pressure control valve - low input Wiring short to positive, exhaust gas pressure control valve P0477 Exhaust gas pressure control valve - low input Wiring short to positive, exhaust gas pressure control valve, ECM P0478 Exhaust gas pressure control valve - low input Wiring, poor connection, exhaust gas pressure control valve, ECM P0479 Exhaust gas pressure control valve - circuit intermittent Wiring, poor connection, exhaust gas pressure control valve, ECM P0480 Engine coolant blower motor 1 - circuit malfunction Wiring, engine coolant blower motor, ECM P0481 Engine coolant blower motor 3 - circuit	P0471	Exhaust gas pressure sensor - range/performance problem	Exhaust gas pressure sensor
P0473 Exhaust gas pressure sensor - high input Wiring short to positive, exhaust gas pressure sensor, ECM P0474 Exhaust gas pressure sensor - circuit intermittent Wiring, poor connection, exhaust gas pressure sensor, ECM P0475 Exhaust gas pressure control valve - circuit malfunction Wiring, exhaust gas pressure control valve, ECM P0476 Exhaust gas pressure control valve - range/performance problem Exhaust gas pressure control valve - Exhaust gas pressure control valve P0477 Exhaust gas pressure control valve - low input Wiring short to earth, exhaust gas pressure control valve P0478 Exhaust gas pressure control valve - low input Wiring short to positive, exhaust gas pressure control valve, ECM P0479 Exhaust gas pressure control valve - high input Wiring short to positive, exhaust gas pressure control valve, ECM P0479 Exhaust gas pressure control valve - circuit intermittent Wiring, poor connection, exhaust gas pressure control valve, ECM P0480 Engine coolant blower motor 1 - circuit malfunction Wiring, engine coolant blower motor, ECM P0481 Engine coolant blower motor 3 - circuit malfunction Wiring, engine coolant blower motor, ECM P0483 Engine coolant blower motor, rationality check - malfunction Wiring, engine coolant blower motor, ECM P04844 Engine coolant blower motor - c	P0472	Exhaust gas pressure sensor - low input	Wiring short to earth, exhaust gas pressure sensor, ECM
P0474 Exhaust gas pressure sensor - circuit intermittent Wiring, poor connection, exhaust gas pressure sensor, ECM P0475 Exhaust gas pressure control valve - circuit malfunction Wiring, exhaust gas pressure control valve, ECM P0476 Exhaust gas pressure control valve - range/performance problem Exhaust gas pressure control valve Exhaust gas pressure control valve P0477 Exhaust gas pressure control valve - low input Wiring short to earth, exhaust gas pressure control valve, ECM P0478 Exhaust gas pressure control valve - high input Wiring short to positive, exhaust gas pressure control valve, ECM P0479 Exhaust gas pressure control valve - circuit intermittent Wiring, poor connection, exhaust gas pressure control valve, ECM P0479 Exhaust gas pressure control valve - circuit intermittent Wiring, poor connection, exhaust gas pressure control valve, ECM P0480 Engine coolant blower motor 1 - circuit malfunction Wiring, engine coolant blower motor, ECM P0481 Engine coolant blower motor 3 - circuit malfunction Wiring, engine coolant blower motor, ECM P0483 Engine coolant blower motor, rationality check - malfunction Wiring, engine coolant blower motor, ECM P0484 Engine coolant blower motor - circuit over current Wiring, engine coolant blower motor, ECM	P0473	Exhaust gas pressure sensor - high input	Wiring short to positive, exhaust gas pressure sensor, ECM
P0475Exhaust gas pressure control valve - circuit malfunctionWiring, exhaust gas pressure control valve, ECMP0476Exhaust gas pressure control valve - range/performance problemExhaust gas pressure control valveP0477Exhaust gas pressure control valve - low inputWiring short to earth, exhaust gas pressure control valve, ECMP0478Exhaust gas pressure control valve - high inputWiring short to positive, exhaust gas pressure control valve, ECMP0479Exhaust gas pressure control valve - high inputWiring, poor connection, exhaust gas pressure control valve, ECMP0479Exhaust gas pressure control valve - circuit intermittentWiring, engine coolant blower motor, ECMP0480Engine coolant blower motor 1 - circuit malfunctionWiring, engine coolant blower motor, ECMP0482Engine coolant blower motor 3 - circuit malfunctionWiring, engine coolant blower motor, ECMP0483Engine coolant blower motor, rationality check - malfunctionWiring, engine coolant blower motor, ECMP0484Engine coolant blower motor - circuit over currentWiring, engine coolant blower motor, ECM	P0474	Exhaust gas pressure sensor - circuit intermittent	Wiring, poor connection, exhaust gas pressure sensor, ECM
P0476Exhaust gas pressure control valve - range/performance problemExhaust gas pressure control valveP0477Exhaust gas pressure control valve - low inputWiring short to earth, exhaust gas pressure control valve, ECMP0478Exhaust gas pressure control valve - high inputWiring short to positive, exhaust gas pressure control valve, ECMP0479Exhaust gas pressure control valve - circuit intermittentWiring, poor connection, exhaust gas pressure control valve, ECMP0480Engine coolant blower motor 1 - circuit malfunctionWiring, engine coolant blower motor, ECMP0481Engine coolant blower motor 2 - circuit malfunctionWiring, engine coolant blower motor, ECMP0483Engine coolant blower motor, rationality check - malfunctionWiring, engine coolant blower motor, ECMP0484Engine coolant blower motor - circuit over currentWiring, engine coolant blower motor, ECM	P0475	Exhaust gas pressure control valve - circuit malfunction	Wiring, exhaust gas pressure control valve, ECM
P0477Exhaust gas pressure control valve - low inputWiring short to earth, exhaust gas pressure control valve, ECMP0478Exhaust gas pressure control valve - high inputWiring short to positive, exhaust gas pressure control valve, ECMP0479Exhaust gas pressure control valve - circuit intermittentWiring, poor connection, exhaust gas pressure control valve, ECMP0479Exhaust gas pressure control valve - circuit intermittentWiring, engine coolant blower motor, ECMP0480Engine coolant blower motor 1 - circuit malfunctionWiring, engine coolant blower motor, ECMP0481Engine coolant blower motor 2 - circuit malfunctionWiring, engine coolant blower motor, ECMP0482Engine coolant blower motor, rationality check - malfunctionWiring, engine coolant blower motor, ECMP0484Engine coolant blower motor - circuit over currentWiring, engine coolant blower motor, ECM	P0476	Exhaust gas pressure control valve - range/performance problem	Exhaust gas pressure control valve
P0478Exhaust gas pressure control valve - high inputWiring short to positive, exhaust gas pressure control valve, ECMP0479Exhaust gas pressure control valve - circuit intermittentWiring, poor connection, exhaust gas pressure control valve, ECMP0480Engine coolant blower motor 1 - circuit malfunctionWiring, engine coolant blower motor, ECMP0481Engine coolant blower motor 2 - circuit malfunctionWiring, engine coolant blower motor, ECMP0482Engine coolant blower motor 3 - circuit malfunctionWiring, engine coolant blower motor, ECMP0483Engine coolant blower motor, rationality check - malfunctionWiring, engine coolant blower motor, ECMP0484Engine coolant blower motor - circuit over currentWiring, engine coolant blower motor, ECM	P0477	Exhaust gas pressure control valve - low input	Wiring short to earth, exhaust gas pressure control valve, ECM
P0479Exhaust gas pressure control valve - circuit intermittentWiring, poor connection, exhaust gas pressure control valve, ECMP0480Engine coolant blower motor 1 - circuit malfunctionWiring, engine coolant blower motor, ECMP0481Engine coolant blower motor 2 - circuit malfunctionWiring, engine coolant blower motor, ECMP0482Engine coolant blower motor 3 - circuit malfunctionWiring, engine coolant blower motor, ECMP0483Engine coolant blower motor, rationality check - malfunctionWiring, engine coolant blower motor, ECMP0484Engine coolant blower motor - circuit over currentWiring, engine coolant blower motor, ECM	P0478	Exhaust gas pressure control valve - high input	Wiring short to positive, exhaust gas pressure control valve, ECM
P0480 Engine coolant blower motor 1 - circuit malfunction Wiring, engine coolant blower motor, ECM P0481 Engine coolant blower motor 2 - circuit malfunction Wiring, engine coolant blower motor, ECM P0482 Engine coolant blower motor 3 - circuit malfunction Wiring, engine coolant blower motor, ECM P0483 Engine coolant blower motor, rationality check - malfunction Wiring, engine coolant blower motor, ECM P0484 Engine coolant blower motor - circuit over current Wiring, engine coolant blower motor, ECM	P0479	Exhaust gas pressure control valve - circuit intermittent	Wiring, poor connection, exhaust gas pressure control valve, ECM
P0481 Engine coolant blower motor 2 - circuit malfunction Wiring, engine coolant blower motor, ECM P0482 Engine coolant blower motor 3 - circuit malfunction Wiring, engine coolant blower motor, ECM P0483 Engine coolant blower motor, rationality check - malfunction Wiring, engine coolant blower motor, ECM P0484 Engine coolant blower motor - circuit over current Wiring, engine coolant blower motor, ECM	P0480	Engine coolant blower motor 1 - circuit malfunction	Wiring, engine coolant blower motor, ECM
P0482 Engine coolant blower motor 3 - circuit malfunction Wiring, engine coolant blower motor, ECM P0483 Engine coolant blower motor, rationality check - malfunction Wiring, engine coolant blower motor, ECM P0484 Engine coolant blower motor - circuit over current Wiring, engine coolant blower motor, ECM	P0481	Engine coolant blower motor 2 - circuit malfunction	Wiring, engine coolant blower motor, ECM
P0483 Engine coolant blower motor, rationality check - malfunction Wiring, engine coolant blower motor, ECM P0484 Engine coolant blower motor - circuit over current Wiring, engine coolant blower motor, ECM	P0482	Engine coolant blower motor 3 - circuit malfunction	Wiring, engine coolant blower motor, ECM
P0484 Engine coolant blower motor - circuit over current Wiring, engine coolant blower motor, ECM	P0483	Engine coolant blower motor, rationality check - malfunction	Wiring, engine coolant blower motor, ECM
	P0484	Engine coolant blower motor - circuit over current	Wiring, engine coolant blower motor, ECM

P0485	Engine coolant blower motor, power/earth - circuit malfunction	Wiring, engine coolant blower motor, ECM
P0486	Exhaust gas recirculation (EGR) valve position sensor B - circuit malfunction	Wiring, poor connection, EGR valve position sensor, ECM
P0487	Exhaust gas recirculation (EGR) system, throttle position control - circuit malfunction	Wiring, poor connection, ECM
P0488	Exhaust gas recirculation (EGR) system, throttle position control - range/performance	Wiring, poor connection, ECM
P0489	Exhaust gas recirculation (EGR) system - circuit low	Wiring short to earth, EGR valve
P0490	Exhaust gas recirculation (EGR) system - circuit high	Wiring short to positive, EGR valve
P0491	Secondary air injection (AIR) system, bank 1 - malfunction	Wiring, AIR solenoid, hose connections, mechanical fault
P0492	Secondary air injection (AIR) system, bank 2 - malfunction	Wiring, AIR solenoid, hose connections, mechanical fault
P0493	Engine coolant blower motor over-speed (clutch locked)	Blower motor clutch, mechanical fault
P0494	Engine coolant blower motor speed - low	Wiring, relay, blower motor, mechanical fault
P0495	Engine coolant blower motor speed - high	Wiring, relay, blower motor, mechanical fault
P0496	Evaporative emission (EVAP) system - high purge flow	Wiring, EVAP valve, mechanical fault
P0497	Evaporative emission (EVAP) system - low purge flow	Wiring, EVAP valve, hoses blocked, mechanical fault
P0498	Evaporative emission (EVAP) system, vent control - circuit low	Wiring short to earth, EVAP valve
P0499	Evaporative emission (EVAP) system, vent control - circuit high	Wiring short to positive, EVAP valve
P0500	Vehicle speed sensor (VSS) - circuit malfunction	Wiring, VSS, ECM
P0501	Vehicle speed sensor (VSS) - range/performance problem	Wiring, speedometer, VSS, CAN data bus
P0502	Vehicle speed sensor (VSS) - low input	Wiring short to earth, VSS, ECM
P0503	Vehicle speed sensor (VSS) - intermittent/erratic/high input	Wiring, poor connection, other connected system, instrument panel, VSS
P0504	Brake switch - A/B correlation	Wiring, mechanical fault
P0505	Idle speed control (ISC) system - malfunction	Wiring, ISC actuator/IAC valve, throttle motor, throttle valve tight/sticking, ECM
P0506	Idle speed control (ISC) system - rpm lower than expected	Wiring, ISC actuator/IAC valve, throttle motor, throttle valve tight/sticking, ECM
P0507	Idle speed control (ISC) system - rpm higher than expected	Wiring, ISC actuator/IAC valve, throttle motor, throttle valve tight/sticking, ECM
P0508	Idle air control (IAC) - circuit low	Wiring short to earth, IAC valve, ECM
P0509	Idle air control (IAC) - circuit high	Wiring short to positive, IAC valve, ECM
P0510	Closed throttle position (CTP) switch - circuit malfunction	Wiring, CTP switch, ECM
P0511	Idle air control (IAC) - circuit malfunction	Wiring, poor connection, IAC valve, ECM
P0512	Starter request circuit - malfunction	Wiring, immobilizer system, relay
P0513	Incorrect immobilizer key	Immobilizer system
P0514	Battery temperature sensor - circuit range/performance	Wiring, poor connection, battery temperature sensor
P0515	Battery temperature sensor - circuit malfunction	Wiring, poor connection, battery temperature sensor
P0516	Battery temperature sensor - circuit low	Wiring short to earth, battery temperature sensor, ECM
P0517	Battery temperature sensor - circuit high	Wiring short to positive, battery temperature sensor, ECM
P0518	Idle air control (IAC) - circuit intermittent	Wiring, poor connection, IAC valve, ECM
P0519	Idle air control (IAC) - circuit performance	Wiring, poor connection, IAC valve, ECM
P0520	Engine oil pressure sensor/switch - circuit malfunction	Wiring, engine oil pressure sensor/switch, ECM

P0521	Engine oil pressure sensor/switch - range/performance problem	Engine oil pressure sensor/switch
P0522	Engine oil pressure sensor/switch - low voltage	Wiring short to earth, engine oil pressure sensor/switc ECM
P0523	Engine oil pressure sensor/switch - high voltage	Wiring short to positive, engine oil pressure sensor/switch, ECM
P0524	Engine oil pressure too low	Mechanical fault
P0525	Cruise control system, actuator control - circuit range/performance	Wiring, poor connection, cruise control actuator
P0526	Engine coolant blower motor speed sensor - circuit malfunction	Wiring, poor connection, blower motor speed sensor, ECM
P0527	Engine coolant blower motor speed sensor - circuit range/performance	Wiring, poor connection, blower motor speed sensor
P0528	Engine coolant blower motor speed sensor - no signal	Wiring, poor connection, blower motor speed sensor, ECM
P0529	Engine coolant blower motor speed sensor - circuit intermittent	Wiring, poor connection, ECM
P0530	AC refrigerant pressure sensor - circuit malfunction	Wiring, AC refrigerant pressure sensor, ECM
P0531	AC refrigerant pressure sensor - range/performance problem	AC refrigerant pressure sensor
P0532	AC refrigerant pressure sensor - low input	AC refrigerant pressure too low (incorrectly charged), wiring, AC refrigerant pressure sensor, ECM
P0533	AC refrigerant pressure sensor - high input	AC refrigerant pressure too high (cooling fault/incorrectly charged), wiring, AC refrigerant pressure sensor, ECM
P0534	AC refrigerant charge loss	AC leak, wiring, AC refrigerant pressure sensor
P0535	AC evaporator temperature sensor - circuit malfunction	Wiring, poor connection, AC evaporator temperature sensor, ECM
P0536	AC evaporator temperature sensor - circuit range/performance	Wiring, poor connection, AC evaporator temperature sensor, ECM
P0537	AC evaporator temperature sensor - circuit low	Wiring short to earth, AC evaporator temperature sensor, ECM
P0538	AC evaporator temperature sensor - circuit high	Wiring short to positive, AC evaporator temperature sensor, ECM
P0539	AC evaporator temperature sensor - circuit intermittent	Wiring, poor connection, AC evaporator temperature sensor, ECM
P0540	Intake air heater A - circuit malfunction	Wiring, relay, intake air heater
P0541	Intake air heater A - circuit low	Wiring short to earth, intake air heater
P0542	Intake air heater A - circuit high	Wiring short to positive, intake air heater
P0543	Intake air heater A - circuit open	Wiring, intake air heater
P0544	Exhaust gas recirculation temperature (EGRT) sensor, bank 1 - circuit malfunction	Wiring, EGRT sensor, ECM
P0545	Exhaust gas recirculation temperature (EGRT) sensor, bank 1 - low input	Wiring short to earth, EGRT sensor, ECM
P0546	Exhaust gas recirculation temperature (EGRT) sensor, bank 1 - high input	Wiring short to positive, EGRT sensor, ECM
P0547	Exhaust gas temperature sensor, bank 2 sensor 1 - circuit malfunction	Wiring, poor connection, exhaust gas temperature sensor, ECM
P0548	Exhaust gas temperature sensor, bank 2 sensor 1 - circuit low	Wiring short to earth, exhaust gas temperature senso
P0549	Exhaust gas temperature sensor, bank 2 sensor 1 - circuit high	Wiring short to positive, exhaust gas temperature sensor, ECM
P0550	Power steering pressure (PSP) sensor/switch - circuit malfunction	Wiring, PSP sensor/switch, ECM

P0551	Power steering pressure (PSP) sensor/switch - range/performance problem	PAS system, PSP sensor/switch
P0552	Power steering pressure (PSP) sensor/switch - low input	Wiring short to earth, PSP sensor/switch, ECM
P0553	Power steering pressure (PSP) sensor/switch - high input	Wiring short to positive, PSP sensor/switch, ECM
P0554	Power steering pressure (PSP) sensor/switch - circuit intermittent	Wiring, poor connection, PSP sensor/switch, ECM
P0555	Brake servo pressure sensor - circuit malfunction	Wiring, poor connection, brake servo pressure sensor, ECM
P0556	Brake servo pressure sensor - circuit range/performance	Wiring, poor connection, brake servo pressure sensor, ECM
P0557	Brake servo pressure sensor - circuit low input	Wiring short to earth, brake servo pressure sensor, ECM
P0558	Brake servo pressure sensor - circuit high input	Wiring short to positive, brake servo pressure sensor, ECM
P0559	Brake servo pressure sensor - circuit intermittent	Wiring, poor connection, brake servo pressure sensor, ECM
P0560	System voltage - malfunction	Wiring, poor connection, battery, alternator
P0561	System voltage - unstable	Wiring, poor connection, battery, alternator
P0562	System voltage - low	Wiring, poor connection, battery, alternator
P0563	System voltage - high	Alternator
P0564	Cruise control system, multi-function switch input A - circuit malfunction	Wiring, poor connection, multi-function switch, mechanical fault
P0565	Cruise control master switch, ON signal - malfunction	Wiring, cruise control master switch, ECM
P0566	Cruise control master switch, OFF signal - malfunction	Wiring, cruise control master switch, ECM
P0567	Cruise control selector switch, RESUME signal - malfunction	Wiring, cruise control selector switch, ECM
P0568	Cruise control master switch, SET signal - malfunction	Wiring, cruise control master switch, ECM
P0569	Cruise control selector switch, COAST signal - malfunction	Wiring, cruise control selector switch, ECM
P0570	Cruise control system, APP sensor signal - malfunction	Wiring, APP sensor, ECM
P0571	Cruise/brake switch A - circuit malfunction	Wiring, cruise/brake switch, ECM
P0572	Cruise/brake switch A - circuit low	Wiring short to earth, cruise/brake switch, ECM
P0573	Cruise/brake switch A - circuit high	Wiring short to positive, cruise/brake switch, ECM
P0574	Cruise control system - vehicle speed too high	Mechanical fault
P0575	Cruise control system - input circuit malfunction	Wiring, poor connection, mechanical fault, ECM
P0576	Cruise control system - input circuit low	Wiring short to earth
P0577	Cruise control system - input circuit high	Wiring short to positive
P0578	Cruise control system, multi-function switch input A - circuit stuck	Wiring, poor connection, multi-function switch, mechanical fault
P0579	Cruise control system, multi-function switch input A - circuit range/performance	Wiring, poor connection, multi-function switch, mechanical fault
P0580	Cruise control system, multi-function switch input A - circuit low	Wiring short to earth, multi-function switch, mechanical fault
P0581	Cruise control system, multi-function switch input A - circuit high	Wiring short to positive, multi-function switch, mechanical fault
P0582	Cruise control system, vacuum control - circuit open	Wiring, vacuum control solenoid
P0583	Cruise control system, vacuum control - circuit low	Wiring short to earth, vacuum control solenoid
P0584	Cruise control system, vacuum control - circuit high	Wiring short to positive, vacuum control solenoid
P0585	Cruise control system, multi-function switch input A/B - correlation	Mechanical fault
P0586	Cruise control system, vent control - circuit open	Wiring, vent control solenoid

P0587	Cruise control system, vent control - circuit low	Wiring short to earth, vent control solenoid
P0588	Cruise control system, vent control - circuit high	Wiring short to positive, vent control solenoid
P0589	Cruise control system, multi-function switch input B - circuit malfunction	Wiring, poor connection, multi-function switch, mechanical fault
P0590	Cruise control system, multi-function switch input B - circuit stuck	Wiring, poor connection, multi-function switch, mechanical fault
P0591	Cruise control system, multi-function switch input B - circuit range/performance	Wiring, poor connection, multi-function switch, mechanical fault
P0592	Cruise control system, multi-function switch input B - circuit low	Wiring short to earth, multi-function switch, mechanical fault
P0593	Cruise control system, multi-function switch input B - circuit high	Wiring short to positive, multi-function switch, mechanical fault
P0594	Cruise control system, actuator control - circuit open	Wiring, actuator
P0595	Cruise control system, actuator control - circuit low	Wiring short to earth, actuator
P0596	Cruise control system, actuator control - circuit high	Wiring short to positive, actuator
P0597	Thermostat heater control system - circuit open	Wiring, relay, thermostat heater
P0598	Thermostat heater control system - circuit low	Wiring short to earth, relay, thermostat heater
P0599	Thermostat heater control system - circuit high	Wiring short to positive, relay, thermostat heater
P0600	CAN data bus - malfunction	Wiring, connected system, ECM
P0601	Engine control module (ECM) - memory check sum error	ECM
P0602	Engine control module (ECM) - programming error	ECM
P0603	Engine control module (ECM) - KAM error	ECM
P0604	Engine control module (ECM) - RAM error	ECM
P0605	Engine control module (ECM) - ROM error	ECM
P0606	Engine control module (ECM)/powertrain control module (PCM) - processor fault	ECM/PCM
P0607	Control module - performance problem	Control module
P0608	Engine control module (ECM), VSS output A - malfunction	ECM
P0609	Engine control module (ECM), VSS output B - malfunction	ECM
P0610	Control module - vehicle options error	Control module
P0611	Fuel injector control module - performance problem	Fuel injector control module
P0612	Fuel injector control module - control relay circuit	Wiring, relay, fuel injector control module
P0613	Transmission control module (TCM) - processor error	ТСМ
P0614	Engine control module (ECM)/transmission control module (TCM) - mismatch	ECM/TCM
P0615	Starter motor relay - circuit malfunction	Wiring, poor connection, starter motor relay, ECM
P0616	Starter motor relay - circuit low	Wiring short to earth, starter motor relay, ECM
P0617	Starter motor relay - circuit high	Wiring short to positive, starter motor relay, ECM
P0618	Alternative fuel control module - KAM error	Alternative fuel control module
P0619	Alternative fuel control module - RAM/ROM error	Alternative fuel control module
P0620	Alternator, control - circuit malfunction	Wiring, alternator, battery, ECM
P0621	Alternator warning lamp - circuit malfunction	Wiring, alternator warning lamp, ECM
P0622	Alternator, field control - circuit malfunction	Wiring, alternator, battery, ECM
P0623	Generator control lamp - circuit malfunction	Wiring, poor connection, bulb, ECM
P0624	Filler cap control lamp - circuit malfunction	Wiring, poor connection, bulb, ECM
P0625	Generator field terminal - circuit low	Wiring short to earth, generator
P0626	Generator field terminal - circuit high	Wiring short to positive, generator

P0628	Fuel pump control - circuit low	Wiring short to earth, relay, fuel pump
P0629	Fuel pump control - circuit high	Wiring short to positive, relay, fuel pump
P0630	VIN not programmed or mismatch - ECM/PCM	ECM/PCM
P0631	VIN not programmed or mismatch - TCM	ТСМ
P0632	Odometer not programmed - ECM/PCM	ECM/PCM
P0633	Immobilizer key not programmed - ECM/PCM	ECM/PCM
P0634	PCM/ECM/TCM - internal temperature too high	Mechanical fault, PCM/ECM/TCM
P0635	Power steering control - circuit malfunction	Wiring, poor connection, power steering pressure (PSP) switch, ECM
P0636	Power steering control - circuit low	Wiring short to earth, power steering pressure (PSP)switch, ECM
P0637	Power steering control - circuit high	Wiring short to positive, power steering pressure (PSP)switch, ECM
P0638	Throttle actuator control, bank 1 - range/performance problem	Basic setting not carried out (if applicable), ISC actuator/throttle motor, APP sensor
P0639	Throttle actuator control, bank 2 - range/performance	Wiring, throttle control unit
P0640	Intake air heater control - circuit malfunction	Wiring, relay, intake air heater
P0641	Sensor reference voltage A - circuit open	Wiring short to positive
P0642	Engine control module (ECM), knock control - defective	ECM
P0643	Sensor reference voltage A - circuit high	Wiring short to positive
P0644	Driver display, serial communication - circuit malfunction	Wiring, CAN data bus, ECM
P0645	Air conditioning (AC)	Wiring, AC system
P0646	AC compressor clutch relay - circuit low	Wiring short to earth, AC compressor clutch relay
P0647	AC compressor clutch relay - circuit high	Wiring short to positive, AC compressor clutch relay
P0648	Immobilizer control lamp - circuit malfunction	Wiring, poor connection, bulb, ECM
P0649	Cruise control lamp - circuit	Wiring, poor connection, bulb, ECM
P0650	Malfunction indicator lamp (MIL) - circuit malfunction	Wiring, MIL, ECM
P0651	Sensor reference voltage B - circuit open	Wiring short to positive
P0652	Sensor reference voltage B - circuit low	Wiring short to earth
P0653	Sensor reference voltage B - circuit high	Wiring short to positive
P0654	Engine rpm, output - circuit malfunction	Wiring, ECM
P0655	Engine hot lamp output - circuit malfunction	Wiring, engine hot lamp, ECM
P0656	Fuel level output - circuit malfunction	Wiring, ECM
P0657	Actuator supply voltage - circuit open	Wiring
P0658	Actuator supply voltage - circuit low	Wiring short to earth, actuator
P0659	Actuator supply voltage - circuit high	Wiring short to positive, actuator
P0660	Intake manifold air control solenoid, bank 1 - circuit open	Wiring, intake manifold air control solenoid
P0661	Intake manifold air control solenoid, bank 1 - circuit low	Wiring short to earth, intake manifold air control solenoid
P0662	Intake manifold air control solenoid, bank 1 - circuit high	Wiring short to positive, intake manifold air control solenoid
P0663	Intake manifold air control solenoid, bank 2 - circuit open	Wiring, intake manifold air control solenoid
P0664	Intake manifold air control solenoid, bank 2 - circuit low	Wiring short to earth, intake manifold air control solenoid
P0665	Intake manifold air control solenoid, bank 2 - circuit high	Wiring short to positive, intake manifold
P0666	PCM/ECM/TCM internal temperature sensor - circuit malfunction	Wiring, poor connection, internal temperature sense ECM
P0667	PCM/ECM/TCM internal temperature sensor - range/performance	Wiring, poor connection, internal temperature sense ECM
P0668	PCM/ECM/TCM internal temperature sensor - circuit low	Wiring short to earth, internal temperature sensor, E
ufacturer: ine code: {	Lancia Model: Kappa 2,0 838A1.000 Output: 107 (145) 6100	© Autodata

P0669	PCM/ECM/TCM internal temperature sensor - circuit high	Wiring short to positive, internal temperature sensor, ECM	
P0670	Glow plug control module - circuit malfunction	Wiring, poor connection, glow plug control module, glow plug, ECM	
P0671	Glow plug, cylinder 1 - circuit malfunction	Wiring, poor connection, relay, glow plug control module, glow plug, ECM	
P0672	Glow plug, cylinder 2 - circuit malfunction	Wiring, poor connection, relay, glow plug control module, glow plug, ECM	
P0673	Glow plug, cylinder 3 - circuit malfunction	Wiring, poor connection, relay, glow plug control module, glow plug, ECM	
P0674	Glow plug, cylinder 4 - circuit malfunction	Wiring, poor connection, relay, glow plug control module, glow plug, ECM	
P0675	Glow plug, cylinder 5 - circuit malfunction	Wiring, poor connection, relay, glow plug control module, glow plug, ECM	
P0676	Glow plug, cylinder 6 - circuit malfunction	Wiring, poor connection, relay, glow plug control module, glow plug, ECM	
P0677	Glow plug, cylinder 7 - circuit malfunction	Wiring, poor connection, relay, glow plug control module, glow plug, ECM	
P0678	Glow plug, cylinder 8 - circuit malfunction	Wiring, poor connection, relay, glow plug control module, glow plug, ECM	
P0679	Glow plug, cylinder 9 - circuit malfunction	Wiring, poor connection, relay, glow plug control module, glow plug, ECM	
P0680	Glow plug, cylinder 10 - circuit malfunction	Wiring, poor connection, relay, glow plug control module, glow plug, ECM	
P0681	Glow plug, cylinder 11 - circuit malfunction	Wiring, poor connection, relay, glow plug control module, glow plug, ECM	
P0682	Glow plug, cylinder 12 - circuit malfunction	Wiring, poor connection, relay, glow plug control module, glow plug, ECM	
P0683	Glow plug control module/ECM/PCM communication - malfunction	Wiring, poor connection, glow plug control module, ECM/PCM	
P0684	Glow plug control module/ECM/PCM communication - range/performance	Wiring, poor connection, glow plug control module, ECM/PCM	
P0685	ECM/PCM power relay - circuit open	Wiring, ECM/PCM power relay	
P0686	ECM/PCM power relay - circuit low	Wiring short to earth, ECM/PCM power relay, ECM	
P0687	Engine control relay - short to earth	Wiring short to earth, engine control relay, ECM	
P0688	Engine control relay - short to positive	Wiring short to positive, engine control relay, ECM	
P0689	ECM/PCM power relay - sense circuit low	Wiring short to earth, ECM/PCM power relay, ECM	
P0690	ECM/PCM power relay - sense circuit high	Wiring short to positive, ECM/PCM power relay, ECM	
P0691	Engine coolant blower motor 1 - short to earth	Wiring short to earth, engine coolant blower motor, ECM	
P0692	Engine coolant blower motor 1 - short to positive	Wiring short to positive, engine coolant blower motor, ECM	
P0693	Engine coolant blower motor 2 - short to earth	Wiring short to earth, engine coolant blower motor, ECM	
P0694	Engine coolant blower motor 2 - short to positive	Wiring short to positive, engine coolant blower motor, ECM	
P0695	Engine coolant blower motor 3 - control circuit low	Wiring short to earth, blower motor	
P0696	Engine coolant blower motor 3 - control circuit high	Wiring short to positive, blower motor	
P0697	Sensor reference voltage C - circuit open	Wiring short to positive	
P0698	Sensor reference voltage C - circuit low	Wiring short to earth	
P0699	Sensor reference voltage C - circuit high	Wiring short to positive	
P0700	Transmission control system - malfunction	Wiring, ECM/PCM/TCM	
		,	

P0701	Transmission control system - range/performance problem	Wiring, ECM/PCM/TCM	
P0702	Transmission control system - electrical	Wiring, ECM/PCM/TCM	
P0703	Torque converter/brake switch B - circuit malfunction	Wiring, torque converter/brake switch, ECM/PCM/TCM	
P0704	Clutch pedal position (CPP) switch - circuit malfunction	Wiring, CPP switch, ECM/PCM/TCM	
P0705	Transmission range (TR) sensor/switch, PRNDL input - circuit malfunction	Wiring, TR sensor/switch, ECM/PCM/TCM	
P0706	Transmission range (TR) sensor/switch - range/performance problem	Wiring, TR sensor/switch	
P0707	Transmission range (TR) sensor/switch - low input	Wiring short to earth, TR sensor/switch, ECM/PCM/TCM	
P0708	Transmission range (TR) sensor/switch - high input	Wiring short to positive, TR sensor/switch, ECM/PCM/TCM	
P0709	Transmission range (TR) sensor/switch - circuit intermittent	Wiring, poor connection, TR sensor/switch, ECM/PCM/TCM	
P0710	Transmission fluid temperature (TFT) sensor - circuit malfunction	Wiring, TFT sensor, ECM, ECM/PCM/TCM	
P0711	Transmission fluid temperature (TFT) sensor - range/performance problem	Wiring, TFT sensor	
P0712	Transmission fluid temperature (TFT) sensor - low input	Wiring short to earth, TFT sensor, ECM/PCM/TCM	
P0713	Transmission fluid temperature (TFT) sensor - high input	Wiring short to positive, TFT sensor, ECM/PCM/TCM	
P0714	Transmission fluid temperature (TFT) sensor - circuit intermittent	Wiring, poor connection, TFT sensor, ECM/PCM/TCM	
P0715	Turbine shaft speed (TSS) sensor - circuit malfunction	Wiring, TSS sensor, ECM/PCM/TCM	
P0716	Turbine shaft speed (TSS) sensor - range/performance problem	Wiring, TSS sensor	
P0717	Turbine shaft speed (TSS) sensor - no signal	Wiring, TSS sensor, ECM/PCM/TCM	
P0718	Turbine shaft speed (TSS) sensor - circuit intermittent	Wiring, poor connection, TSS sensor, ECM/PCM/TCI	
P0719	Torque converter/brake switch B - circuit low	Wiring short to earth, torque converter/brake switch, ECM/PCM/TCM	
P0720	Vehicle speed sensor (VSS) - circuit malfunction	Wiring, VSS, ECM/PCM/TCM	
P0721	Vehicle speed sensor (VSS) - range/performance problem	Wiring, VSS	
P0722	Vehicle speed sensor (VSS) - no signal	Wiring, VSS, ECM/PCM/TCM	
P0723	Vehicle speed sensor (VSS) - circuit intermittent	Wiring, poor connection, VSS, ECM/PCM/TCM	
P0724	Torque converter/brake switch B - circuit high	Wiring short to positive, torque converter/brake switch, ECM/PCM/TCM	
P0725	Engine RPM input - circuit malfunction	Wiring, CKP/RPM sensor, ECM/PCM/TCM	
P0726	Engine RPM input - range/performance problem	Wiring, CKP/RPM sensor	
P0727	Engine RPM input - no signal	Wiring, CKP/RPM sensor, ECM/PCM/TCM	
P0728	Engine RPM input - circuit intermittent	Wiring, poor connection, CKP/RPM sensor, ECM/PCM/TCM	
P0730	Incorrect gear ratio	Wiring, TR sensor/switch, shift solenoids, transmission mechanical fault	
P0731	Gear 1 - incorrect ratio	Wiring, TR sensor/switch, shift solenoids, transmission mechanical fault	
P0732	Gear 2 - incorrect ratio	Wiring, TR sensor/switch, shift solenoids, transmission mechanical fault	
P0733	Gear 3 - incorrect ratio	Wiring, TR sensor/switch, shift solenoids, transmission mechanical fault	
P0734	Gear 4 - incorrect ratio	Wiring, TR sensor/switch, shift solenoids, transmission mechanical fault	

P0735	Gear 5 - incorrect ratio	Wiring, TR sensor/switch, shift solenoids, transmission mechanical fault
P0736	Reverse - incorrect ratio	Wiring, TR sensor/switch, shift solenoids, transmission mechanical fault
P0737	TCM engine speed - output circuit	Wiring, TCM
P0738	TCM engine speed - output circuit low	Wiring, TCM
P0739	TCM engine speed - output circuit high	Wiring, TCM
P0740	Torque converter clutch (TCC) solenoid - circuit malfunction	Wiring, TCC solenoid, ECM/PCM/TCM
P0741	Torque converter clutch (TCC) solenoid - performance or stuck off	Wiring, TCC solenoid
P0742	Torque converter clutch (TCC) solenoid - stuck on	Wiring, TCC solenoid
P0743	Torque converter clutch (TCC) solenoid - electrical	Wiring, TCC solenoid, ECM/PCM/TCM
P0744	Torque converter clutch (TCC) solenoid - circuit intermittent	Wiring, poor connection, TCC solenoid, ECM/PCM/TCM
P0745	Transmission fluid pressure (TFP) solenoid - circuit malfunction	Wiring, TFP solenoid, ECM/PCM/TCM
P0746	Transmission fluid pressure (TFP) solenoid - performance or stuck off	Wiring, TFP solenoid
P0747	Transmission fluid pressure (TFP) solenoid - stuck on	Wiring, TFP solenoid
P0748	Transmission fluid pressure (TFP) solenoid - electrical	Wiring, TFP solenoid, ECM/PCM/TCM
P0749	Transmission fluid pressure (TFP) solenoid - circuit intermittent	Wiring, poor connection, TFP solenoid, ECM/PCM/TCM
P0750	Shift solenoid (SS) A - circuit malfunction	Wiring, shift solenoid, ECM/PCM/TCM
P0751	Shift solenoid (SS) A - performance or stuck off	Wiring, shift solenoid
P0752	Shift solenoid (SS) A - stuck on	Wiring, shift solenoid
P0753	Shift solenoid (SS) A - electrical	Wiring, shift solenoid, ECM/PCM/TCM
P0754	Shift solenoid (SS) A - circuit intermittent	Wiring, poor connection, shift solenoid, ECM/PCM/TCM
P0755	Shift solenoid (SS) B - circuit malfunction	Wiring, shift solenoid, ECM/PCM/TCM
P0756	Shift solenoid (SS) B - performance or stuck off	Wiring, shift solenoid
P0757	Shift solenoid (SS) B - stuck on	Wiring, shift solenoid
P0758	Shift solenoid (SS) B - electrical	Wiring, shift solenoid, ECM/PCM/TCM
P0759	Shift solenoid (SS) B - circuit intermittent	Wiring, poor connection, shift solenoid, ECM/PCM/TCM
P0760	Shift solenoid (SS) C - circuit malfunction	Wiring, shift solenoid, ECM/PCM/TCM
P0761	Shift solenoid (SS) C - performance or stuck off	Wiring, shift solenoid
P0762	Shift solenoid (SS) C - stuck on	Wiring, shift solenoid
P0763	Shift solenoid (SS) C - electrical	Wiring, shift solenoid, ECM/PCM/TCM
P0764	Shift solenoid (SS) C - circuit intermittent	Wiring, poor connection, shift solenoid, ECM/PCM/TCM
P0765	Shift solenoid (SS) D - circuit malfunction	Wiring, shift solenoid, ECM/PCM/TCM
P0766	Shift solenoid (SS) D - performance or stuck off	Wiring, shift solenoid
P0767	Shift solenoid (SS) D - stuck on	Wiring, shift solenoid
P0768	Shift solenoid (SS) D - electrical	Wiring, shift solenoid, ECM/PCM/TCM
P0769	Shift solenoid (SS) D - circuit intermittent	Wiring, poor connection, shift solenoid, ECM/PCM/TCM
P0770	Shift solenoid (SS) E - circuit malfunction	Wiring, shift solenoid, ECM/PCM/TCM
P0771	Shift solenoid (SS) E - performance or stuck off	Wiring, shift solenoid
P0772	Shift solenoid (SS) E - stuck on	Wiring, shift solenoid
P0773	Shift solenoid (SS) E - electrical	Wiring, shift solenoid, ECM/PCM/TCM
P0774	Shift solenoid (SS) E - circuit intermittent	Wiring, poor connection, shift solenoid, ECM/PCM/TCM
P0775	Pressure control solenoid B - malfunction	Pressure control solenoid
P0776	Pressure control solenoid B - performance or stuck off	Wiring, pressure control solenoid
ufacturer: ine code:	: Lancia Model: Kappa 2,0 838A1.000 Output: 107 (145) 6100	© Autodata Limited 2006.
ed for: R-(Cat Year: 1994-02	<u></u>

P0777	Pressure control solenoid B - stuck on	Wiring, pressure control solenoid	
P0778	Pressure control solenoid B - electrical malfunction	Wiring, pressure control solenoid	
P0779	Pressure control solenoid B - circuit intermittent	Wiring, poor connection, pressure control solenoid	
P0780	Gear selection - shift malfunction	Wiring, TR sensor, shift solenoids, transmission mechanical fault	
P0781	Gear selection, 1-2 - shift malfunction	Wiring, TR sensor, shift solenoids, transmission mechanical fault	
P0782	Gear selection, 2-3 - shift malfunction	Wiring, TR sensor, shift solenoids, transmission mechanical fault	
P0783	Gear selection, 3-4 - shift malfunction	Wiring, TR sensor, shift solenoids, transmission mechanical fault	
P0784	Gear selection, 4-5 - shift malfunction	Wiring, TR sensor, shift solenoids, transmission mechanical fault	
P0785	Shift/timing solenoid - circuit malfunction	Wiring, shift/timing solenoid, ECM/PCM/TCM	
P0786	Shift/timing solenoid - range/performance problem	Wiring, shift/timing solenoid	
P0787	Shift/timing solenoid - low	Wiring short to earth, shift/timing solenoid, ECM/PCM/TCM	
P0788	Shift/timing solenoid - high	Wiring short to positive, shift/timing solenoid, ECM/PCM/TCM	
P0789	Shift/timing solenoid - intermittent	Wiring, poor connection, shift/timing solenoid, ECM/PCM/TCM	
P0790	Transmission mode selection switch - circuit malfunction	Wiring, transmission mode selection switch, ECM/PCM/TCM	
P0791	Intermediate shaft speed sensor - circuit malfunction	Wiring, poor connection, intermediate shaft speed sensor, ECM/PCM/TCM	
P0792	Intermediate shaft speed sensor - range/performance problem	Wiring, poor connection, intermediate shaft speed sensor, ECM/PCM/TCM	
P0793	Intermediate shaft speed sensor - no signal	Wiring, poor connection, short to earth, intermediate shaft speed sensor, ECM/PCM/TCM	
P0794	Intermediate shaft speed sensor - intermittent circuit malfunction	Wiring, poor connection, intermediate shaft speed sensor, ECM/PCM/TCM	
P0795	Transmission fluid pressure (TFP) solenoid C - circuit malfunction	Wiring, poor connection, TFP solenoid, ECM/PCM/TCM	
P0796	Transmission fluid pressure (TFP) solenoid C - performance or stuck off	Wiring, poor connection, TFP solenoid, ECM/PCM/TCM	
P0797	Transmission fluid pressure (TFP) solenoid C - stuck on	Wiring, poor connection, TFP solenoid, ECM/PCM/TCM	
P0798	Transmission fluid pressure (TFP) solenoid C - electrical malfunction	Wiring, poor connection, TFP solenoid, ECM/PCM/TCM	
P0799	Transmission fluid pressure (TFP) solenoid C - intermittent circuit malfunction	Wiring, poor connection, ECM/PCM/TCM	
P0800	Transfer box control system, MIL request - malfunction	Wiring, mechanical fault	
P0801	Reverse inhibit circuit - malfunction	Wiring, poor connection	
P0802	Transmission control system, MIL request - circuit open	Wiring, mechanical fault	
P0803	1-4 Upshift (Skip shift) solenoid - circuit malfunction	Wiring, poor connection, upshift solenoid	
P0804	1-4 Upshift (Skip shift) warning lamp - circuit malfunction	Wiring, poor connection	
P0805	Clutch position sensor - circuit malfunction	Wiring, poor connection, clutch position sensor, ECM/PCM/TCM	
P0806	Clutch position sensor - range/performance problem	Wiring, poor connection, clutch position sensor, ECM/PCM/TCM	
P0807	Clutch position sensor - low input	Wiring, short to earth, clutch position sensor, ECM/PCM/TCM	

P0808	Clutch position sensor - high input	Wiring, short to positive, clutch position sensor, ECM/PCM/TCM	
P0809	Clutch position sensor - intermittent circuit malfunction	Wiring, poor connection, clutch position sensor, ECM/PCM/TCM	
P0810	Clutch position control error	Wiring, poor connection, ECM/PCM/TCM	
P0811	Excessive clutch slip	Wiring, poor connection, mechanical fault, ECM/PCM/TCM	
P0812	Reverse gear - input circuit malfunction	Wiring, poor connection, ECM/PCM/TCM	
P0813	Reverse gear - output circuit malfunction	Wiring, poor connection, ECM/PCM/TCM	
P0814	Transmission range (TR) display - circuit malfunction	Wiring, poor connection, TR sensor, ECM/PCM/TCM	
P0815	Upshift switch - circuit malfunction	Wiring, poor connection, upshift switch, ECM/PCM/TCM	
P0816	Downshift switch - circuit malfunction	Wiring, poor connection, downshift switch, ECM/PCM/TCM	
P0817	Starter disable circuit - malfunction	Wiring, poor connection, ECM/PCM/TCM	
P0818	Driveline disconnect switch - circuit malfunction	Wiring, poor connection, upshift switch, ECM/PCM/TCM	
P0819	Up/down shift switch to transmission range correlation	Wiring, poor connection, TR sensor, ECM/PCM/TCM	
P0820	Gear lever X-Y position sensor - circuit malfunction	Wiring, poor connection, gear lever position sensor, ECM/PCM/TCM	
P0821	Gear lever X position sensor - circuit malfunction	Wiring, poor connection, gear lever position sensor, ECM/PCM/TCM	
P0822	Gear lever Y position sensor - circuit malfunction	Wiring, poor connection, gear lever position sensor, ECM/PCM/TCM	
P0823	Gear lever X position sensor - circuit intermittent	Wiring, poor connection, gear lever position sensor, ECM/PCM/TCM	
P0824	Gear lever Y position sensor - circuit intermittent	Wiring, poor connection, gear lever position sensor, ECM/PCM/TCM	
P0825	Gear lever push-pull switch - circuit malfunction	Wiring, poor connection, gear lever push-pull switch, ECM/PCM/TCM	
P0826	Up/down shift switch - input circuit	Wiring, up/down shift switch	
P0827	Up/down shift switch - input circuit low	Wiring short to earth, up/down shift switch	
P0828	Up/down shift switch - input circuit high	Wiring short to positive, up/down shift switch	
P0829	5-6 Upshift	Mechanical fault	
P0830	Clutch pedal position (CPP) switch A - circuit malfunction	Wiring, poor connection, CPP switch, ECM/PCM/TCM	
P0831	Clutch pedal position (CPP) switch A - low input	Wiring, short to earth, CPP switch, ECM/PCM/TCM	
P0832	Clutch pedal position (CPP) switch A - high input	Wiring, short to positive, CPP switch, ECM/PCM/TCM	
P0833	Clutch pedal position (CPP) switch B - circuit malfunction	Wiring, poor connection, CPP switch, ECM/PCM/TCM	
P0834	Clutch pedal position (CPP) switch B - low input	Wiring, short to earth, CPP switch, ECM/PCM/TCM	
P0835	Clutch pedal position (CPP) switch B - high input	Wiring, short to positive, CPP switch, ECM/PCM/TCM	
P0836	Four wheel drive switch - circuit malfunction	Wiring, poor connection, four wheel drive switch, ECM/PCM/TCM	
P0837	Four wheel drive switch - range/performance problem	Wiring, poor connection, four wheel drive switch, ECM/PCM/TCM	
P0838	Four wheel drive switch - low input	Wiring, short to earth, four wheel drive switch, ECM/PCM/TCM	
P0839	Four wheel drive switch - high input	Wiring, short to positive, four wheel drive switch, ECM/PCM/TCM	
P0840	Transmission fluid pressure (TFP) sensor A - circuit malfunction	Wiring, poor connection, TFP sensor, ECM/PCM/TCM	
P0840	Transmission fluid pressure (TFP) switch A - circuit malfunction	Wiring, poor connection, TFP switch, ECM/PCM/TCM	

P0841	Transmission fluid pressure (TFP) sensor A - range/performance problem	Wiring, poor connection, TFP sensor, ECM/PCM/TCM	
P0841	Transmission fluid pressure (TFP) switch A - range/performance problem	Wiring, poor connection, TFP switch, ECM/PCM/TCM	
P0842	Transmission fluid pressure (TFP) sensor A - low input	Wiring, short to earth, TFP sensor, ECM/PCM/TCM	
P0842	Transmission fluid pressure (TFP) switch A - low input	Wiring, short to earth, TFP switch, ECM/PCM/TCM	
P0843	Transmission fluid pressure (TFP) sensor A - high input	Wiring, short to positive, TFP sensor, ECM/PCM/TCM	
P0843	Transmission fluid pressure (TFP) switch A - high input	Wiring, short to positive, TFP switch, ECM/PCM/TCM	
P0844	Transmission fluid pressure (TFP) sensor A - intermittent circuit malfunction	Wiring, poor connection, TFP sensor, ECM/PCM/TCM	
P0844	Transmission fluid pressure (TFP) switch A - intermittent circuit malfunction	Wiring, poor connection, TFP switch, ECM/PCM/TCM	
P0845	Transmission fluid pressure (TFP) sensor B - circuit malfunction	Wiring, poor connection, TFP sensor, ECM/PCM/TCM	
P0845	Transmission fluid pressure (TFP) switch B - circuit malfunction	Wiring, poor connection, TFP switch, ECM/PCM/TCM	
P0846	Transmission fluid pressure (TFP) sensor B - range/performance problem	Wiring, poor connection, TFP sensor, ECM/PCM/TCM	
P0846	Transmission fluid pressure (TFP) switch B - range/performance problem	Wiring, poor connection, TFP switch, ECM/PCM/TCM	
P0847	Transmission fluid pressure (TFP) sensor B - low input	Wiring, short to earth, TFP sensor ,ECM/PCM/TCM	
P0847	Transmission fluid pressure (TFP) switch B - low input	Wiring, short to earth, TFP switch, ECM/PCM/TCM	
P0848	Transmission fluid pressure (TFP) sensor B - high input	Wiring, short to positive, TFP sensor, ECM/PCM/TCM	
P0848	Transmission fluid pressure (TFP) switch B - high input	Wiring, short to positive, TFP switch, ECM/PCM/TCM	
P0849	Transmission fluid pressure (TFP) sensor B - intermittent circuit malfunction	Wiring, poor connection, TFP sensor, ECM/PCM/TCM	
P0849	Transmission fluid pressure (TFP) switch B - intermittent circuit malfunction	Wiring, poor connection, TFP switch, ECM/PCM/TCM	
P0850	Park/neutral position (PNP) switch - input circuit malfunction	Wiring, PNP switch, ECM/PCM/TCM	
P0851	Park/neutral position (PNP) switch - input circuit low	Wiring, short to earth, PNP switch, ECM/PCM/TCM	
P0852	Park/neutral position (PNP) switch - input circuit high	Wiring, short to positive, PNP switch, ECM/PCM/TCM	
P0853	Drive switch - input circuit malfunction	Wiring, drive switch, ECM/PCM/TCM	
P0854	Drive switch - input circuit low	Wiring, short to earth, drive switch, ECM/PCM/TCM	
P0855	Drive switch - input circuit high	Wiring, short to positive, drive switch, ECM/PCM/TCM	
P0856	Traction control input signal - malfunction	Wiring, poor connection, ECM/PCM/TCM	
P0857	Traction control input signal - range/performance problem	Wiring, poor connection, ECM/PCM/TCM	
P0858	Traction control input signal - low	Wiring, short to earth, ECM/PCM/TCM	
P0859	Traction control input signal - high	Wiring, short to positive, ECM/PCM/TCM	
P0860	Gear shift module communication circuit - malfunction	Wiring, poor connection, gear shift module, ECM/PCM/TCM	
P0861	Gear shift module communication circuit - low input	Wiring, short to earth, gear shift module, ECM/PCM/TCM	
P0862	Gear shift module communication circuit - high input	Wiring, short to positive, gear shift module, ECM/PCM/TCM	
P0863	Transmission control module (TCM) communication circuit - malfunction	Wiring, poor connection, TCM	
P0864	Transmission control module (TCM) communication circuit - range/performance problem	Wiring, poor connection, TCM	
P0865	Transmission control module (TCM) communication circuit - low input	Wiring, short to earth, TCM	

P0867 Transmission fluid pressure (TFP) sensor Wring, short to earth, TFP sensor, ECMPCMTCM P0868 Transmission fluid pressure (TFP) sensor - high Wring, short to positive, TFP sensor, ECMPCMTCM P0869 Transmission fluid pressure (TFP) sensor C - circuit Wring, short to positive, TFP sensor, ECMPCMTCM P0870 Transmission fluid pressure (TFP) sensor C - circuit Wring, poor connection, TFP sensor, ECMPCMTCM P0871 Transmission fluid pressure (TFP) sensor C - circuit Wring, poor connection, TFP sensor, ECMPCMTCM P0871 Transmission fluid pressure (TFP) sensor C - circuit ing, poor connection, TFP sensor, ECMPCMTCM P0871 Transmission fluid pressure (TFP) sensor C - circuit high Wring, short to earth, TFP sensor, ECMPCMTCM P0872 Transmission fluid pressure (TFP) sensor C - circuit high Wring, short to positive, TFP sensor, ECMPCMTCM P0872 Transmission fluid pressure (TFP) sensor C - circuit high Wring, short to positive, TFP sensor, ECMPCMTCM P0874 Transmission fluid pressure (TFP) sensor C - intermittent Wring, poor connection, TFP sensor, ECMPCMTCM P0874 Transmission fluid pressure (TFP) sensor D - circuit high Wring, poor connection, TFP sensor, ECMPCMTCM P0875 Transmission fluid pressure (TFP) sensor D - circuit Wring, poo	P0866	Transmission control module (TCM) communication circuit - high input	Wiring, short to positive, TCM
P0988 Transmission fluid pressure (TFP) sensor - low Wring, short to earth, TFP sensor, ECM/PCM/TCM P0889 Transmission fluid pressure (TFP) sensor - high Wring, short to positive, TFP sensor, ECM/PCM/TCM P0870 Transmission fluid pressure (TFP) sensor C - circuit Wring, poor connection, TFP sensor, ECM/PCM/TCM P0870 Transmission fluid pressure (TFP) sensor C - circuit Wring, poor connection, TFP sensor, ECM/PCM/TCM P0871 Transmission fluid pressure (TFP) sensor C - circuit low Wring, poor connection, TFP sensor, ECM/PCM/TCM P0872 Transmission fluid pressure (TFP) sensor C - circuit low Wring, short to earth, TFP sensor, ECM/PCM/TCM P0873 Transmission fluid pressure (TFP) sensor C - circuit low Wring, short to positive, TFP sensor, ECM/PCM/TCM P0873 Transmission fluid pressure (TFP) sensor C - circuit log/ Wring, short to positive, TFP sensor, ECM/PCM/TCM P0874 Transmission fluid pressure (TFP) sensor C - intermittent Wring, poor connection, TFP sensor, ECM/PCM/TCM P0875 Transmission fluid pressure (TFP) sensor C - intermittent Wring, poor connection, TFP sensor, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - circuit Wring, poor connection, TFP sensor, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP)	P0867	Transmission fluid pressure (TFP) sensor	Wiring, poor connection, TFP sensor, ECM/PCM/TCM
P0869 Transmission fluid pressure (TFP) sensor - high Wiring. short to positive, TFP sensor, ECM/PCMTCM P0870 Transmission fluid pressure (TFP) sensor C - circuit Wiring, poor connection, TFP sensor, ECM/PCMTCM P0870 Transmission fluid pressure (TFP) sensor C - circuit Wiring, poor connection, TFP sensor, ECM/PCMTCM P0871 Transmission fluid pressure (TFP) sensor C - incuit ling, poor connection, TFP switch, ECM/PCMTCM P0871 Transmission fluid pressure (TFP) sensor C - circuit ling, short to earth, TFP sensor, ECM/PCMTCM P0872 Transmission fluid pressure (TFP) sensor C - circuit ling) Wiring, short to partitive, TFP sensor, ECM/PCMTCM P0872 Transmission fluid pressure (TFP) sensor C - circuit ling) Wiring, short to positive, TFP sensor, ECM/PCM/TCM P0873 Transmission fluid pressure (TFP) sensor C - circuit ling) Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0873 Transmission fluid pressure (TFP) sensor C - intermittent Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0874 Transmission fluid pressure (TFP) sensor C - intermittent Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0875 Transmission fluid pressure (TFP) sensor D - circuit Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - circuit	P0868	Transmission fluid pressure (TFP) sensor - low	Wiring, short to earth, TFP sensor, ECM/PCM/TCM
P0870 Transmission fluid pressure (TFP) sensor C - circuit Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0870 Transmission fluid pressure (TFP) sensor C - circuit Wiring, poor connection, TFP switch, ECM/PCM/TCM P0871 Transmission fluid pressure (TFP) sensor C - circuit Wiring, poor connection, TFP switch, ECM/PCM/TCM P0871 Transmission fluid pressure (TFP) sensor C - circuit low Wiring, short to earth, TFP sensor, ECM/PCM/TCM P0872 Transmission fluid pressure (TFP) sensor C - circuit low Wiring, short to earth, TFP sensor, ECM/PCM/TCM P0873 Transmission fluid pressure (TFP) sensor C - circuit low Wiring, short to pestive, TFP sensor, ECM/PCM/TCM P0873 Transmission fluid pressure (TFP) sensor C - circuit ligh Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0873 Transmission fluid pressure (TFP) sensor C - intermittent Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0874 Transmission fluid pressure (TFP) sensor D - circuit Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0875 Transmission fluid pressure (TFP) sensor D - circuit Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - circuit Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0876 Transmission fluid pr	P0869	Transmission fluid pressure (TFP) sensor - high	Wiring, short to positive, TFP sensor, ECM/PCM/TCM
P0870 Transmission fluid pressure (TFP) switch C - circuit Wiring, poor connection, TFP switch, ECM/PCM/TCM P0871 Transmission fluid pressure (TFP) sensor C - range/performance Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0871 Transmission fluid pressure (TFP) switch C - range/performance Wiring, short to earth, TFP switch, ECM/PCM/TCM P0872 Transmission fluid pressure (TFP) sensor C - circuit low Wiring, short to earth, TFP switch, ECM/PCM/TCM P0873 Transmission fluid pressure (TFP) sensor C - circuit high Wiring, short to positive, TFP sensor, ECM/PCM/TCM P0874 Transmission fluid pressure (TFP) sensor C - circuit high Wiring, short to positive, TFP sensor, ECM/PCM/TCM P0874 Transmission fluid pressure (TFP) sensor C - circuit high Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0874 Transmission fluid pressure (TFP) sensor D - circuit Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0875 Transmission fluid pressure (TFP) sensor D - wircuit Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - wircuit Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - wircuit withing, poor connection, TFP switch, ECM/PCM/TCM P0876 Transmission flui	P0870	Transmission fluid pressure (TFP) sensor C - circuit malfunction	Wiring, poor connection, TFP sensor, ECM/PCM/TCM
P0871 Transmission fluid pressure (TFP) sensor C - range/performance Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0871 Transmission fluid pressure (TFP) sensor C - circuit low Wiring, short to earth, TFP sensor, ECM/PCM/TCM P0872 Transmission fluid pressure (TFP) sensor C - circuit low Wiring, short to positive, TFP sensor, ECM/PCM/TCM P0872 Transmission fluid pressure (TFP) sensor C - circuit high Wiring, short to positive, TFP sensor, ECM/PCM/TCM P0873 Transmission fluid pressure (TFP) sensor C - circuit high Wiring, short to positive, TFP sensor, ECM/PCM/TCM P0874 Transmission fluid pressure (TFP) sensor C - circuit high Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0874 Transmission fluid pressure (TFP) sensor D - circuit Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0875 Transmission fluid pressure (TFP) sensor D - circuit Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - wirout Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - wirout Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - wirout Wiring, short to earth, TFP sensor, ECM/PCM/TCM P0876 Transmis	P0870	Transmission fluid pressure (TFP) switch C - circuit malfunction	Wiring, poor connection, TFP switch, ECM/PCM/TCM
P0871 Transmission fluid pressure (TFP) switch C - range/pedromance Wiring, poor connection, TFP switch, ECM/PCM/TCM P0872 Transmission fluid pressure (TFP) sensor C - circuit low Wiring, short to earth, TFP sensor, ECM/PCM/TCM P0873 Transmission fluid pressure (TFP) sensor C - circuit low Wiring, short to positive, TFP sensor, ECM/PCM/TCM P0873 Transmission fluid pressure (TFP) sensor C - circuit high Wiring, short to positive, TFP sensor, ECM/PCM/TCM P0874 Transmission fluid pressure (TFP) sensor C - circuit high Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0874 Transmission fluid pressure (TFP) sensor C - intermittent circuit malfunction Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0875 Transmission fluid pressure (TFP) sensor D - circuit malfunction Wiring, poor connection, TFP switch, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - circuit malfunction Wiring, poor connection, TFP switch, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) switch D - range/pedromance Wiring, short to earth, TFP switch, ECM/PCM/TCM P0877 Transmission fluid pressure (TFP) switch D - range/pedromance Wiring, poor connection, TFP switch, ECM/PCM/TCM P0878 Transmission fluid pressure (TFP) switch D - range/pedromance Wiring, short to earth, TFP sensor, ECM/PCM/T	P0871	Transmission fluid pressure (TFP) sensor C - range/performance	Wiring, poor connection, TFP sensor, ECM/PCM/TCM
P0872 Transmission fluid pressure (TFP) sensor C - circuit low Wiring, short to earth, TFP sensor, ECM/PCM/TCM P0873 Transmission fluid pressure (TFP) sensor C - circuit low Wiring, short to earth, TFP sensor, ECM/PCM/TCM P0873 Transmission fluid pressure (TFP) sensor C - circuit ligh Wiring, short to positive, TFP sensor, ECM/PCM/TCM P0874 Transmission fluid pressure (TFP) sensor C - intermittent Wiring, short to positive, TFP sensor, ECM/PCM/TCM P0874 Transmission fluid pressure (TFP) sensor C - intermittent Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0875 Transmission fluid pressure (TFP) sensor D - circuit Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - circuit Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - circuit Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - circuit low Wiring, short to earth, TFP sensor, ECM/PCM/TCM P0877 Transmission fluid pressure (TFP) sensor D - circuit low Wiring, short to earth, TFP sensor, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - circuit low Wiring, short to earth, TFP sensor, ECM/PCM/TCM P0877 Transmis	P0871	Transmission fluid pressure (TFP) switch C - range/performance	Wiring, poor connection, TFP switch, ECM/PCM/TCM
P0872 Transmission fluid pressure (TFP) switch C - circuit low Wiring, short to earth, TFP switch, ECM/PCM/TCM P0873 Transmission fluid pressure (TFP) sensor C - circuit high Wiring, short to positive, TFP switch, ECM/PCM/TCM P0874 Transmission fluid pressure (TFP) sensor C - intermittent Wiring, poor connection, TFP switch, ECM/PCM/TCM P0874 Transmission fluid pressure (TFP) sensor C - intermittent Wiring, poor connection, TFP switch, ECM/PCM/TCM P0874 Transmission fluid pressure (TFP) sensor D - circuit Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0875 Transmission fluid pressure (TFP) sensor D - circuit Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - circuit Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - circuit low Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0877 Transmission fluid pressure (TFP) sensor D - circuit low Wiring, short to earth, TFP sensor, ECM/PCM/TCM P0878 Transmission fluid pressure (TFP) sensor D - circuit low Wiring, short to earth, TFP sensor, ECM/PCM/TCM P0877 Transmission fluid pressure (TFP) sensor D - circuit low Wiring, short to earth, TFP sensor, ECM/PCM/TCM P0877 Transmiss	P0872	Transmission fluid pressure (TFP) sensor C - circuit low	Wiring, short to earth, TFP sensor, ECM/PCM/TCM
P0873 Transmission fluid pressure (TFP) sensor C - circuit high Wiring, short to positive, TFP sensor, ECM/PCM/TCM P0874 Transmission fluid pressure (TFP) sensor C - intermittent circuit maifunction Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0874 Transmission fluid pressure (TFP) sensor C - intermittent circuit maifunction Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0874 Transmission fluid pressure (TFP) sensor D - circuit Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0875 Transmission fluid pressure (TFP) sensor D - circuit Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) switch D - circuit Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - maifunction Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - irange/performance Wiring, short to earth, TFP sensor, ECM/PCM/TCM P0877 Transmission fluid pressure (TFP) sensor D - circuit low Wiring, short to positive, TFP sensor, ECM/PCM/TCM P0878 Transmission fluid pressure (TFP) sensor D - circuit low Wiring, short to earth, TFP sensor, ECM/PCM/TCM P0877 Transmission fluid pressure (TFP) sensor D - circuit low Wiring, short to positive, TFP sensor, ECM/PCM/TCM	P0872	Transmission fluid pressure (TFP) switch C - circuit low	Wiring, short to earth, TFP switch, ECM/PCM/TCM
P0873 Transmission fluid pressure (TFP) switch C - circuit high Wiring, short to positive, TFP switch, ECM/PCM/TCM P0874 Transmission fluid pressure (TFP) sensor C - intermittent Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0874 Transmission fluid pressure (TFP) switch C - intermittent Wiring, poor connection, TFP switch, ECM/PCM/TCM P0875 Transmission fluid pressure (TFP) sensor D - circuit Wiring, poor connection, TFP switch, ECM/PCM/TCM P0875 Transmission fluid pressure (TFP) sensor D - circuit Wiring, poor connection, TFP switch, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - range/performance Wiring, poor connection, TFP switch, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - range/performance Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) switch D - range/performance Wiring, short to earth, TFP sensor, ECM/PCM/TCM P0877 Transmission fluid pressure (TFP) switch D - circuit high Wiring, short to positive, TFP switch, ECM/PCM/TCM P0878 Transmission fluid pressure (TFP) switch D - circuit high Wiring, short to positive, TFP sensor, ECM/PCM/TCM P0877 Transmission fluid pressure (TFP) switch D - circuit high Wiring, short to positive, TFP sensor, ECM/PCM/TCM <t< td=""><td>P0873</td><td>Transmission fluid pressure (TFP) sensor C - circuit high</td><td>Wiring, short to positive, TFP sensor, ECM/PCM/TCM</td></t<>	P0873	Transmission fluid pressure (TFP) sensor C - circuit high	Wiring, short to positive, TFP sensor, ECM/PCM/TCM
P0874 Transmission fluid pressure (TFP) sensor C - intermittent circuit malfunction Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0874 Transmission fluid pressure (TFP) switch C - intermittent malfunction Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0875 Transmission fluid pressure (TFP) sensor D - circuit malfunction Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) switch D - circuit malfunction Wiring, poor connection, TFP switch, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - range/performance Wiring, poor connection, TFP switch, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - range/performance Wiring, short connection, TFP switch, ECM/PCM/TCM P0877 Transmission fluid pressure (TFP) sensor D - circuit low Wiring, short to earth, TFP sensor, ECM/PCM/TCM P0877 Transmission fluid pressure (TFP) sensor D - circuit ligh Wiring, short to positive, TFP switch, ECM/PCM/TCM P0877 Transmission fluid pressure (TFP) sensor D - circuit ligh Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0878 Transmission fluid pressure (TFP) sensor D - intermittent Wiring, short to positive, TFP switch, ECM/PCM/TCM P0879 Transmission fluid pressure (TFP) sensor D - intermittent Wiring, poor connection, TFP sensor,	P0873	Transmission fluid pressure (TFP) switch C - circuit high	Wiring, short to positive, TFP switch, ECM/PCM/TCM
P0874Transmission fluid pressure (TFP) switch C - intermittent circuit malfunctionWiring, poor connection, TFP switch, ECM/PCM/TCMP0875Transmission fluid pressure (TFP) sensor D - circuit malfunctionWiring, poor connection, TFP sensor, ECM/PCM/TCMP0875Transmission fluid pressure (TFP) switch D - circuit malfunctionWiring, poor connection, TFP sensor, ECM/PCM/TCMP0876Transmission fluid pressure (TFP) sensor D - range/performanceWiring, poor connection, TFP sensor, ECM/PCM/TCMP0876Transmission fluid pressure (TFP) sensor D - range/performanceWiring, poor connection, TFP sensor, ECM/PCM/TCMP0877Transmission fluid pressure (TFP) sensor D - circuit lowWiring, short to earth, TFP sensor, ECM/PCM/TCMP0878Transmission fluid pressure (TFP) sensor D - circuit highWiring, short to earth, TFP sensor, ECM/PCM/TCMP0878Transmission fluid pressure (TFP) sensor D - circuit highWiring, short to positive, TFP sensor, ECM/PCM/TCMP0879Transmission fluid pressure (TFP) sensor D - circuit highWiring, short to positive, TFP sensor, ECM/PCM/TCMP0879Transmission fluid pressure (TFP) sensor D - intermittent circuit malfunctionWiring, poor connection, TFP sensor, ECM/PCM/TCMP0879Transmission fluid pressure (TFP) sensor D - intermittent circuit malfunctionWiring, poor connection, TFP sensor, ECM/PCM/TCMP0879Transmission fluid pressure (TFP) switch D - circuit highWiring, poor connection, TFP sensor, ECM/PCM/TCMP0879Transmission fluid pressure (TFP) switch D - intermittent circuit malfunctionWiring, poor connection, TFP sensor, ECM/PCM/TCM <tr< td=""><td>P0874</td><td>Transmission fluid pressure (TFP) sensor C - intermittent circuit malfunction</td><td>Wiring, poor connection, TFP sensor, ECM/PCM/TCM</td></tr<>	P0874	Transmission fluid pressure (TFP) sensor C - intermittent circuit malfunction	Wiring, poor connection, TFP sensor, ECM/PCM/TCM
P0875 Transmission fluid pressure (TFP) sensor D - circuit malfunction Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0875 Transmission fluid pressure (TFP) switch D - circuit malfunction Wiring, poor connection, TFP switch, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - trange/performance Wiring, poor connection, TFP switch, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - trange/performance Wiring, poor connection, TFP switch, ECM/PCM/TCM P0877 Transmission fluid pressure (TFP) sensor D - circuit low Wiring, short to earth, TFP switch, ECM/PCM/TCM P0878 Transmission fluid pressure (TFP) sensor D - circuit low Wiring, short to earth, TFP switch, ECM/PCM/TCM P0878 Transmission fluid pressure (TFP) sensor D - circuit low Wiring, short to positive, TFP sensor, ECM/PCM/TCM P0878 Transmission fluid pressure (TFP) sensor D - circuit low Wiring, poor connection, TFP switch, ECM/PCM/TCM P0879 Transmission fluid pressure (TFP) sensor D - intermittent Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0879 Transmission fluid pressure (TFP) switch D - intermittent Wiring, poor connection, TFP switch, ECM/PCM/TCM P0879 Transmission fluid pressure (TFP) switch D - intermittent Wiring, poor connection, TFP switch, ECM/PCM/TCM	P0874	Transmission fluid pressure (TFP) switch C - intermittent circuit malfunction	Wiring, poor connection, TFP switch, ECM/PCM/TCM
P0875 Transmission fluid pressure (TFP) switch D - circuit maffunction Wiring, poor connection, TFP switch, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - range/performance Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0876 Transmission fluid pressure (TFP) sensor D - range/performance Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0877 Transmission fluid pressure (TFP) sensor D - circuit low Wiring, short to earth, TFP sensor, ECM/PCM/TCM P0878 Transmission fluid pressure (TFP) sensor D - circuit low Wiring, short to earth, TFP sensor, ECM/PCM/TCM P0878 Transmission fluid pressure (TFP) sensor D - circuit low Wiring, short to positive, TFP sensor, ECM/PCM/TCM P0878 Transmission fluid pressure (TFP) sensor D - circuit high Wiring, short to positive, TFP sensor, ECM/PCM/TCM P0879 Transmission fluid pressure (TFP) sensor D - intermittent Wiring, poor connection, TFP switch, ECM/PCM/TCM P0879 Transmission fluid pressure (TFP) sensor D - intermittent Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0879 Transmission fluid pressure (TFP) sensor D - intermittent Wiring, poor connection, TFP switch, ECM/PCM/TCM P0880 Transmission control module (TCM) - power input signal range/performance Wiring, poor connection, TCM <td< td=""><td>P0875</td><td>Transmission fluid pressure (TFP) sensor D - circuit malfunction</td><td>Wiring, poor connection, TFP sensor, ECM/PCM/TCM</td></td<>	P0875	Transmission fluid pressure (TFP) sensor D - circuit malfunction	Wiring, poor connection, TFP sensor, ECM/PCM/TCM
P0876Transmission fluid pressure (TFP) sensor D - range/performanceWiring, poor connection, TFP sensor, ECM/PCM/TCMP0876Transmission fluid pressure (TFP) switch D - range/performanceWiring, poor connection, TFP switch, ECM/PCM/TCMP0877Transmission fluid pressure (TFP) sensor D - circuit lowWiring, short to earth, TFP sensor, ECM/PCM/TCMP0877Transmission fluid pressure (TFP) switch D - circuit lowWiring, short to earth, TFP switch, ECM/PCM/TCMP0878Transmission fluid pressure (TFP) sensor D - circuit highWiring, short to positive, TFP sensor, ECM/PCM/TCMP0878Transmission fluid pressure (TFP) sensor D - circuit highWiring, short to positive, TFP switch, ECM/PCM/TCMP0879Transmission fluid pressure (TFP) sensor D - intermittent circuit malfunctionWiring, poor connection, TFP switch, ECM/PCM/TCMP0879Transmission fluid pressure (TFP) switch D - intermittent circuit malfunctionWiring, poor connection, TFP switch, ECM/PCM/TCMP0880Transmission control module (TCM) - power input signal malfunctionWiring, poor connection, TCMP0881Transmission control module (TCM) - power input signal lowWiring, short to positive, TCMP0883Transmission control module (TCM) - power input signal lowWiring, short to positive, TCMP0884Transmission control module (TCM) - power input signal lowWiring, poor connection, TCMP0885Transmission control module (TCM) power relay - controlWiring, poor connection, TCMP0886Transmission control module (TCM) power relay - controlWiring, poor connection, TCM power relay, TCM <tr< td=""><td>P0875</td><td>Transmission fluid pressure (TFP) switch D - circuit malfunction</td><td>Wiring, poor connection, TFP switch, ECM/PCM/TCM</td></tr<>	P0875	Transmission fluid pressure (TFP) switch D - circuit malfunction	Wiring, poor connection, TFP switch, ECM/PCM/TCM
P0876Transmission fluid pressure (TFP) switch D - range/performanceWiring, poor connection, TFP switch, ECM/PCM/TCMP0877Transmission fluid pressure (TFP) sensor D - circuit lowWiring, short to earth, TFP sensor, ECM/PCM/TCMP0877Transmission fluid pressure (TFP) sensor D - circuit lowWiring, short to earth, TFP sensor, ECM/PCM/TCMP0878Transmission fluid pressure (TFP) sensor D - circuit highWiring, short to positive, TFP sensor, ECM/PCM/TCMP0878Transmission fluid pressure (TFP) sensor D - circuit highWiring, short to positive, TFP sensor, ECM/PCM/TCMP0879Transmission fluid pressure (TFP) sensor D - intermittent circuit malfunctionWiring, poor connection, TFP sensor, ECM/PCM/TCMP0879Transmission fluid pressure (TFP) sensor D - intermittent circuit malfunctionWiring, poor connection, TFP switch, ECM/PCM/TCMP0880Transmission control module (TCM) - power input signal malfunctionWiring, poor connection, TCMP0881Transmission control module (TCM) - power input signal lowWiring, short to earth, TCMP0883Transmission control module (TCM) - power input signal lowWiring, short to positive, TCMP0884Transmission control module (TCM) - power input signal intermittent malfunctionWiring, poor connection, TCMP0885Transmission control module (TCM) - power input signal intermittent malfunctionWiring, poor connection, TCMP0886Transmission control module (TCM) - power input signal intermittent malfunctionWiring, poor connection, TCMP0886Transmission control module (TCM) power relay - control circuit topen<	P0876	Transmission fluid pressure (TFP) sensor D - range/performance	Wiring, poor connection, TFP sensor, ECM/PCM/TCM
P0877 Transmission fluid pressure (TFP) sensor D - circuit low Wiring, short to earth, TFP sensor, ECM/PCM/TCM P0877 Transmission fluid pressure (TFP) switch D - circuit low Wiring, short to earth, TFP sensor, ECM/PCM/TCM P0878 Transmission fluid pressure (TFP) sensor D - circuit high Wiring, short to positive, TFP sensor, ECM/PCM/TCM P0878 Transmission fluid pressure (TFP) sensor D - circuit high Wiring, short to positive, TFP sensor, ECM/PCM/TCM P0879 Transmission fluid pressure (TFP) sensor D - intermittent circuit malfunction Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0879 Transmission fluid pressure (TFP) switch D - intermittent circuit malfunction Wiring, poor connection, TFP sensor, ECM/PCM/TCM P0880 Transmission control module (TCM) - power input signal malfunction Wiring, poor connection, TFP switch, ECM/PCM/TCM P0881 Transmission control module (TCM) - power input signal low Wiring, poor connection, TCM P0882 Transmission control module (TCM) - power input signal low Wiring, short to positive, TCM P0883 Transmission control module (TCM) - power input signal logh Wiring, short to positive, TCM P0884 Transmission control module (TCM) - power input signal intermittent malfunction Wiring, poor connection, TCM power relay, TCM	P0876	Transmission fluid pressure (TFP) switch D - range/performance	Wiring, poor connection, TFP switch, ECM/PCM/TCM
P0877Transmission fluid pressure (TFP) switch D - circuit lowWiring, short to earth, TFP switch, ECM/PCM/TCMP0878Transmission fluid pressure (TFP) sensor D - circuit highWiring, short to positive, TFP sensor, ECM/PCM/TCMP0878Transmission fluid pressure (TFP) switch D - circuit highWiring, short to positive, TFP switch, ECM/PCM/TCMP0879Transmission fluid pressure (TFP) sensor D - intermittent circuit malfunctionWiring, poor connection, TFP switch, ECM/PCM/TCMP0879Transmission fluid pressure (TFP) switch D - intermittent circuit malfunctionWiring, poor connection, TFP switch, ECM/PCM/TCMP0879Transmission fluid pressure (TFP) switch D - intermittent circuit malfunctionWiring, poor connection, TFP switch, ECM/PCM/TCMP0880Transmission control module (TCM) - power input signal malfunctionWiring, poor connection, TCMP0881Transmission control module (TCM) - power input signal lowWiring, short to earth, TCMP0883Transmission control module (TCM) - power input signal lowWiring, short to positive, TCMP0884Transmission control module (TCM) - power input signal linghWiring, poor connection, TCMP0885Transmission control module (TCM) - power input signal linghWiring, poor connection, TCMP0886Transmission control module (TCM) - power input signal linghWiring, poor connection, TCMP0886Transmission control module (TCM) - power input signal lintermittent malfunctionWiring, poor connection, TCMP0886Transmission control module (TCM) power relay - control circuit openWiring, poor connection, TCM po	P0877	Transmission fluid pressure (TFP) sensor D - circuit low	Wiring, short to earth, TFP sensor, ECM/PCM/TCM
P0878Transmission fluid pressure (TFP) sensor D - circuit highWiring, short to positive, TFP sensor, ECM/PCM/TCMP0878Transmission fluid pressure (TFP) switch D - circuit highWiring, short to positive, TFP switch, ECM/PCM/TCMP0879Transmission fluid pressure (TFP) sensor D - intermittent circuit malfunctionWiring, poor connection, TFP sensor, ECM/PCM/TCMP0879Transmission fluid pressure (TFP) switch D - intermittent circuit malfunctionWiring, poor connection, TFP switch, ECM/PCM/TCMP0879Transmission control module (TCM) - power input signal malfunctionWiring, poor connection, TFP switch, ECM/PCM/TCMP0880Transmission control module (TCM) - power input signal lowWiring, poor connection, TCMP0881Transmission control module (TCM) - power input signal lowWiring, short to earth, TCMP0882Transmission control module (TCM) - power input signal lowWiring, short to positive, TCMP0883Transmission control module (TCM) - power input signal 	P0877	Transmission fluid pressure (TFP) switch D - circuit low	Wiring, short to earth, TFP switch, ECM/PCM/TCM
P0878Transmission fluid pressure (TFP) switch D - circuit highWiring, short to positive, TFP switch, ECM/PCM/TCMP0879Transmission fluid pressure (TFP) sensor D - intermittent circuit malfunctionWiring, poor connection, TFP sensor, ECM/PCM/TCMP0879Transmission fluid pressure (TFP) switch D - intermittent circuit malfunctionWiring, poor connection, TFP switch, ECM/PCM/TCMP0879Transmission fluid pressure (TFP) switch D - intermittent circuit malfunctionWiring, poor connection, TFP switch, ECM/PCM/TCMP0880Transmission control module (TCM) - power input signal malfunctionWiring, poor connection, TCMP0881Transmission control module (TCM) - power input signal lowWiring, short to earth, TCMP0882Transmission control module (TCM) - power input signal lowWiring, short to positive, TCMP0883Transmission control module (TCM) - power input signal lowWiring, short to positive, TCMP0884Transmission control module (TCM) - power input signal lintermittent malfunctionWiring, poor connection, TCMP0884Transmission control module (TCM) - power input signal lintermittent malfunctionWiring, poor connection, TCMP0885Transmission control module (TCM) power relay - control circuit openWiring, poor connection, TCM power relay, TCMP0886Transmission control module (TCM) power relay - control circuit lowWiring, short to earth, TCM power relay, TCMP0887Transmission control module (TCM) power relay - control circuit lowWiring, short to positive, TCM power relay, TCM	P0878	Transmission fluid pressure (TFP) sensor D - circuit high	Wiring, short to positive, TFP sensor, ECM/PCM/TCM
P0879Transmission fluid pressure (TFP) sensor D - intermittent circuit malfunctionWiring, poor connection, TFP sensor, ECM/PCM/TCMP0879Transmission fluid pressure (TFP) switch D - intermittent circuit malfunctionWiring, poor connection, TFP switch, ECM/PCM/TCMP0880Transmission control module (TCM) - power input signal malfunctionWiring, poor connection, TCMP0881Transmission control module (TCM) - power input signal range/performanceWiring, poor connection, TCMP0882Transmission control module (TCM) - power input signal lowWiring, short to earth, TCMP0883Transmission control module (TCM) - power input signal lowWiring, short to positive, TCMP0884Transmission control module (TCM) - power input signal lowWiring, short to positive, TCMP0883Transmission control module (TCM) - power input signal lowWiring, poor connection, TCMP0884Transmission control module (TCM) - power input signal intermittent malfunctionWiring, poor connection, TCMP0885Transmission control module (TCM) - power input signal intermittent malfunctionWiring, poor connection, TCMP0886Transmission control module (TCM) power relay - control circuit openWiring, poor connection, TCM power relay, TCMP0886Transmission control module (TCM) power relay - control circuit lowWiring, short to earth, TCM power relay, TCMP0887Transmission control module (TCM) power relay - control circuit highWiring, short to positive, TCM power relay, TCM	P0878	Transmission fluid pressure (TFP) switch D - circuit high	Wiring, short to positive, TFP switch, ECM/PCM/TCM
P0879Transmission fluid pressure (TFP) switch D - intermittent circuit malfunctionWiring, poor connection, TFP switch, ECM/PCM/TCMP0880Transmission control module (TCM) - power input signal malfunctionWiring, poor connection, TCMP0881Transmission control module (TCM) - power input signal range/performanceWiring, poor connection, TCMP0882Transmission control module (TCM) - power input signal lowWiring, short to earth, TCMP0883Transmission control module (TCM) - power input signal lowWiring, short to positive, TCMP0884Transmission control module (TCM) - power input signal lintermittent malfunctionWiring, poor connection, TCMP0885Transmission control module (TCM) - power input signal intermittent malfunctionWiring, poor connection, TCMP0885Transmission control module (TCM) - power input signal intermittent malfunctionWiring, poor connection, TCMP0886Transmission control module (TCM) power relay - control circuit openWiring, poor connection, TCM power relay, TCMP0887Transmission control module (TCM) power relay - control wiring, short to positive, TCM power relay, TCM	P0879	Transmission fluid pressure (TFP) sensor D - intermittent circuit malfunction	Wiring, poor connection, TFP sensor, ECM/PCM/TCM
P0880Transmission control module (TCM) - power input signal malfunctionWiring, poor connection, TCMP0881Transmission control module (TCM) - power input signal range/performanceWiring, poor connection, TCMP0882Transmission control module (TCM) - power input signal lowWiring, short to earth, TCMP0883Transmission control module (TCM) - power input signal lowWiring, short to positive, TCMP0884Transmission control module (TCM) - power input signal intermittent malfunctionWiring, poor connection, TCMP0885Transmission control module (TCM) - power input signal intermittent malfunctionWiring, poor connection, TCMP0886Transmission control module (TCM) power relay - control circuit openWiring, poor connection, TCM power relay, TCMP0886Transmission control module (TCM) power relay - control circuit lowWiring, short to positive, TCM power relay, TCMP0887Transmission control module (TCM) power relay - control circuit highWiring, short to positive, TCM power relay, TCM	P0879	Transmission fluid pressure (TFP) switch D - intermittent circuit malfunction	Wiring, poor connection, TFP switch, ECM/PCM/TCM
P0881Transmission control module (TCM) - power input signal range/performanceWiring, poor connection, TCMP0882Transmission control module (TCM) - power input signal lowWiring, short to earth, TCMP0883Transmission control module (TCM) - power input signal highWiring, short to positive, TCMP0884Transmission control module (TCM) - power input signal intermittent malfunctionWiring, poor connection, TCMP0885Transmission control module (TCM) - power input signal intermittent malfunctionWiring, poor connection, TCMP0886Transmission control module (TCM) power relay - control circuit openWiring, poor connection, TCM power relay, TCMP0886Transmission control module (TCM) power relay - control circuit lowWiring, short to earth, TCM power relay, TCMP0887Transmission control module (TCM) power relay - control circuit highWiring, short to positive, TCM power relay, TCM	P0880	Transmission control module (TCM) - power input signal malfunction	Wiring, poor connection, TCM
P0882Transmission control module (TCM) - power input signal lowWiring, short to earth, TCMP0883Transmission control module (TCM) - power input signal highWiring, short to positive, TCMP0884Transmission control module (TCM) - power input signal intermittent malfunctionWiring, poor connection, TCMP0885Transmission control module (TCM) power relay - control circuit openWiring, poor connection, TCM power relay, TCMP0886Transmission control module (TCM) power relay - control circuit lowWiring, short to earth, TCM power relay, TCMP0887Transmission control module (TCM) power relay - control circuit highWiring, short to positive, TCM power relay, TCM	P0881	Transmission control module (TCM) - power input signal range/performance	Wiring, poor connection, TCM
P0883Transmission control module (TCM) - power input signal highWiring, short to positive, TCMP0884Transmission control module (TCM) - power input signal intermittent malfunctionWiring, poor connection, TCMP0885Transmission control module (TCM) power relay - control circuit openWiring, poor connection, TCM power relay, TCMP0886Transmission control module (TCM) power relay - control circuit lowWiring, short to earth, TCM power relay, TCMP0887Transmission control module (TCM) power relay - control circuit highWiring, short to positive, TCM power relay, TCM	P0882	Transmission control module (TCM) - power input signal low	Wiring, short to earth, TCM
P0884 Transmission control module (TCM) - power input signal intermittent malfunction Wiring, poor connection, TCM P0885 Transmission control module (TCM) power relay - control circuit open Wiring, poor connection, TCM power relay, TCM P0886 Transmission control module (TCM) power relay - control circuit low Wiring, short to earth, TCM power relay, TCM P0887 Transmission control module (TCM) power relay - control circuit high Wiring, short to positive, TCM power relay, TCM	P0883	Transmission control module (TCM) - power input signal high	Wiring, short to positive, TCM
P0885 Transmission control module (TCM) power relay - control circuit open Wiring, poor connection, TCM power relay, TCM P0886 Transmission control module (TCM) power relay - control circuit low Wiring, short to earth, TCM power relay, TCM P0887 Transmission control module (TCM) power relay - control circuit high Wiring, short to positive, TCM power relay, TCM	P0884	Transmission control module (TCM) - power input signal intermittent malfunction	Wiring, poor connection, TCM
P0886 Transmission control module (TCM) power relay - control circuit low Wiring, short to earth, TCM power relay, TCM P0887 Transmission control module (TCM) power relay - control circuit high Wiring, short to positive, TCM power relay, TCM	P0885	Transmission control module (TCM) power relay - control circuit open	Wiring, poor connection, TCM power relay, TCM
P0887 Transmission control module (TCM) power relay - control Wiring, short to positive, TCM power relay, TCM	P0886	Transmission control module (TCM) power relay - control circuit low	Wiring, short to earth, TCM power relay, TCM
	P0887	Transmission control module (TCM) power relay - control circuit high	Wiring, short to positive, TCM power relay, TCM

P0888	Transmission control module (TCM) power relay - sense circuit malfunction	Wiring, poor connection, TCM power relay, TCM
P0889	Transmission control module (TCM) power relay - sense circuit range/performance	Wiring, poor connection, TCM power relay, TCM
P0890	Transmission control module (TCM) power relay - sense circuit low	Wiring, short to earth, TCM power relay, TCM
P0891	Transmission control module (TCM) power relay - sense circuit high	Wiring, short to positive, TCM power relay, TCM
P0892	Transmission control module (TCM) power relay - sense circuit intermittent malfunction	Wiring, poor connection, TCM power relay, TCM
P0893	Multiple gears engaged	Mechanical fault
P0894	Transmission component slipping	Mechanical fault
P0895	Shift time too short	Mechanical fault
P0896	Shift time too long	Mechanical fault
P0897	Transmission fluid deteriorated	Mechanical fault
P0898	Transmission control system - MIL request - circuit low	Wiring, poor connection, short to earth
P0899	Transmission control system - MIL request - circuit high	Wiring, poor connection, short to positive
P0900	Clutch actuator - circuit open	Wiring, clutch actuator, ECM/PCM/TCM
P0901	Clutch actuator - circuit range/performance	Wiring, poor connection, clutch actuator, ECM/PCM/TCM
P0902	Clutch actuator - circuit low	Wiring, short to earth, clutch actuator, ECM/PCM/TCM
P0903	Clutch actuator - circuit high	Wiring, short to positive, clutch actuator, ECM/PCM/TCM
P0904	Transmission gate select position circuit - malfunction	Wiring, poor connection, ECM/PCM/TCM
P0905	Transmission gate select position circuit - range/performance	Wiring, poor connection, ECM/PCM/TCM
P0906	Transmission gate select position circuit - low	Wiring, short to earth, ECM/PCM/TCM
P0907	Transmission gate select position circuit - high	Wiring, short to positive, ECM/PCM/TCM
P0908	Transmission gate select position circuit - intermittent circuit malfunction	Wiring, poor connection, ECM/PCM/TCM
P0909	Transmission gate select control error	Mechanical fault
P0910	Transmission gate select actuator - circuit open	Wiring, transmission gate select actuator, ECM/PCM/TCM
P0911	Transmission gate select actuator - circuit range/performance	Wiring, poor connection, transmission gate select actuator, ECM/PCM/TCM
P0912	Transmission gate select actuator - circuit low	Wiring, short to earth, transmission gate select actuator, ECM/PCM/TCM
P0913	Transmission gate select actuator - circuit high	Wiring, short to positive, transmission gate select actuator, ECM/PCM/TCM
P0914	Gear shift position circuit - malfunction	Wiring, poor connection, ECM/PCM/TCM
P0915	Gear shift position circuit - range/performance	Wiring, poor connection, ECM/PCM/TCM
P0916	Gear shift position circuit - low	Wiring, short to earth, ECM/PCM/TCM
P0917	Gear shift position circuit - high	Wiring, short to positive, ECM/PCM/TCM
P0918	Gear shift position circuit - intermittent malfunction	Wiring, poor connection, ECM/PCM/TCM
P0919	Gear shift position control - error	Wiring, poor connection, ECM/PCM/TCM
P0920	Gear shift forward actuator - circuit open	Wiring, gear shift forward actuator, ECM/PCM/TCM
P0921	Gear shift forward actuator - circuit range/performance	Wiring, poor connection, gear shift forward actuator, ECM/PCM/TCM
P0922	Gear shift forward actuator - circuit low	Wiring, short to earth, gear shift forward actuator, ECM/PCM/TCM
P0923	Gear shift forward actuator - circuit high	Wiring, short to positive, gear shift forward actuator,

P0924	Gear shift reverse actuator - circuit open	Wiring, gear shift reverse actuator, ECM/PCM/TCM	
P0925	Gear shift reverse actuator - circuit range/performance	Wiring, poor connection, gear shift reverse actuator, ECM/PCM/TCM	
P0926	Gear shift reverse actuator - circuit low	Wiring, short to earth, gear shift reverse actuator, ECM/PCM/TCM	
P0927	Gear shift reverse actuator - circuit high	Wiring, short to positive, gear shift reverse actuator, ECM/PCM/TCM	
P0928	Gear shift lock solenoid - circuit open	Wiring, gear shift lock solenoid, ECM/PCM/TCM	
P0929	Gear shift lock solenoid - circuit range/performance	Wiring, gear shift lock solenoid, ECM/PCM/TCM	
P0930	Gear shift lock solenoid - circuit low	Wiring, short to earth, gear shift lock solenoid, ECM/PCM/TCM	
P0931	Gear shift lock solenoid - circuit high	Wiring, short to positive, gear shift lock solenoid, ECM/PCM/TCM	
P0932	Hydraulic pressure sensor - circuit malfunction	Wiring, poor connection, hydraulic pressure sensor, ECM/PCM/TCM	
P0933	Hydraulic pressure sensor - range/performance	Wiring, hydraulic pressure sensor, ECM/PCM/TCM	
P0934	Hydraulic pressure sensor - circuit low input	Wiring, short to earth, hydraulic pressure sensor, ECM/PCM/TCM	
P0935	Hydraulic pressure sensor - circuit high input	Wiring, short to positive, hydraulic pressure sensor, ECM/PCM/TCM	
P0936	Hydraulic pressure sensor - circuit intermittent	Wiring, poor connection, hydraulic pressure sensor, ECM/PCM/TCM	
P0937	Hydraulic oil temperature sensor - circuit malfunction	Wiring, poor connection, hydraulic oil temperature sensor, ECM/PCM/TCM	
P0938	Hydraulic oil temperature sensor - range/performance	Wiring, hydraulic oil temperature sensor, ECM/PCM/TCM	
P0939	Hydraulic oil temperature sensor - circuit low input	Wiring, short to earth, hydraulic oil temperature sensor ECM/PCM/TCM	
P0940	Hydraulic oil temperature sensor - circuit high input	Wiring, short to positive, hydraulic oil temperature sensor, ECM/PCM/TCM	
P0941	Hydraulic oil temperature sensor - circuit intermittent	Wiring, poor connection, hydraulic oil temperature sensor, ECM/PCM/TCM	
P0942	Hydraulic pressure unit	Mechanical fault	
P0943	Hydraulic pressure unit - cycling period too short	Mechanical fault	
P0944	Hydraulic pressure unit - loss of pressure	Mechanical fault	
P0945	Hydraulic pump relay - circuit open	Wiring, hydraulic pump relay, ECM/PCM/TCM	
P0946	Hydraulic pump relay - circuit range/performance	Wiring, hydraulic pump relay, ECM/PCM/TCM	
P0947	Hydraulic pump relay - circuit low	Wiring, short to earth, hydraulic pump relay, ECM/PCM/TCM	
P0948	Hydraulic pump relay - circuit high	Wiring, short to positive, hydraulic pump relay, ECM/PCM/TCM	
P0949	ASM - adaptive learning not done	ECM/PCM/TCM	
P0950	ASM control circuit	Wiring, poor connection, ECM/PCM/TCM	
P0951	ASM control circuit - range/performance	Wiring, poor connection, ECM/PCM/TCM	
P0952	ASM control circuit - low	Wiring, poor connection, short to earth, ECM/PCM/TCM	
P0953	ASM control circuit - high	Wiring, poor connection, short to positive, ECM/PCM/TCM	
P0954	ASM - intermittent circuit malfunction	Wiring, poor connection, ECM/PCM/TCM	
P0955	ASM mode circuit - malfunction	Wiring, poor connection, ECM/PCM/TCM	
P0956	ASM mode circuit - range/performance	Wiring, poor connection, ECM/PCM/TCM	
P0957	ASM mode circuit - low	Wiring, poor connection, short to earth, ECM/PCM/TCM	
ufacturer	: Lancia Model: Kappa 2.0	© Autodata Limiter	
ine code:	838A1.000 Output: 107 (145) 6100	2006.	
ed for R-(Cat Voar: 1994-02	V5 500- /Auto	

P0958	ASM mode circuit - high	Wiring, poor connection, short to positive,	
120959	ILASIVI mode circuit - intermittent circuit malfunction		
P0960	Pressure control (PC) solenoid A - control circuit open	Wiring, poor connection, pressure control solenoid, ECM/PCM/TCM	
P0961	Pressure control (PC) solenoid A - control circuit range/performance	Wiring, poor connection, pressure control solenoid, ECM/PCM/TCM	
P0962	Pressure control (PC) solenoid A - control circuit low	Wiring, short to earth, pressure control solenoid, ECM/PCM/TCM	
P0963	Pressure control (PC) solenoid A - control circuit high	Wiring, short to positive, pressure control solenoid, ECM/PCM/TCM	
P0964	Pressure control (PC) solenoid B - control circuit open	Wiring, poor connection, pressure control solenoid, ECM/PCM/TCM	
P0965	Pressure control (PC) solenoid B - control circuit range/performance	Wiring, poor connection, pressure control solenoid, ECM/PCM/TCM	
P0966	Pressure control (PC) solenoid B - control circuit low	Wiring, short to earth, pressure control solenoid, ECM/PCM/TCM	
P0967	Pressure control (PC) solenoid B - control circuit high	Wiring, short to positive, pressure control solenoid, ECM/PCM/TCM	
P0968	Pressure control (PC) solenoid C - control circuit open	Wiring, poor connection, pressure control solenoid, ECM/PCM/TCM	
P0969	Pressure control (PC) solenoid C - control circuit range/performance	Wiring, poor connection, pressure control solenoid, ECM/PCM/TCM	
P0970	Pressure control (PC) solenoid C - control circuit low	Wiring, short to earth, pressure control solenoid, ECM/PCM/TCM	
P0971	Pressure control (PC) solenoid C - control circuit high	Wiring, short to positive, pressure control solenoid, ECM/PCM/TCM	
P0972	Shift solenoid (SS) A - control circuit range/performance	Wiring, poor connection, shift solenoid, ECM/PCM/TCM	
P0973	Shift solenoid (SS) A - control circuit low	Wiring, short to earth, shift solenoid, ECM/PCM/TCM	
P0974	Shift solenoid (SS) A - control circuit high	Wiring, short to positive, shift solenoid, ECM/PCM/TCM	
P0975	Shift solenoid (SS) B - control circuit range/performance	Wiring, poor connection, shift solenoid, ECM/PCM/TCM	
P0976	Shift solenoid (SS) B - control circuit low	Wiring, short to earth, shift solenoid, ECM/PCM/TCM	
P0977	Shift solenoid (SS) B - control circuit high	Wiring, short to positive, shift solenoid, ECM/PCM/TCM	
P0978	Shift solenoid (SS) C - control circuit range/performance	Wiring, poor connection, shift solenoid, ECM/PCM/TCM	
P0979	Shift solenoid (SS) C - control circuit low	Wiring, short to earth, shift solenoid, ECM/PCM/TCM	
P0980	Shift solenoid (SS) C - control circuit high	Wiring, short to positive, shift solenoid, ECM/PCM/TCM	
P0981	Shift solenoid (SS) D - control circuit range/performance	Wiring, poor connection, shift solenoid, ECM/PCM/TCM	
P0982	Shift solenoid (SS) D - control circuit low	Wiring, short to earth, shift solenoid, ECM/PCM/TCM	
P0983	Shift solenoid (SS) D - control circuit high	Wiring, short to positive, shift solenoid, ECM/PCM/TCM	
P0984	Shift solenoid (SS) E - control circuit range/performance	Wiring, poor connection, shift solenoid, ECM/PCM/TCM	
P0985	Shift solenoid (SS) E - control circuit low	Wiring, short to earth, shift solenoid, ECM/PCM/TCM	
P0986	Shift solenoid (SS) E - control circuit high	Wiring, short to positive, shift solenoid, ECM/PCM/TCM	
P0987	Transmission fluid pressure (TFP) sensor E - circuit malfunction	Wiring, poor connection, TFP sensor, ECM/PCM/TCM	
P0987	Transmission fluid pressure (TFP) switch E - circuit malfunction	Wiring, poor connection, TFP switch, ECM/PCM/TCM	
P0988	Transmission fluid pressure (TFP) sensor E - circuit range/performance	Wiring, poor connection, TFP sensor, ECM/PCM/TCM	
P0988	Transmission fluid pressure (TFP) switch E - circuit range/performance	Wiring, poor connection, TFP switch, ECM/PCM/TCM	
P0989	Transmission fluid pressure (TFP) sensor E - circuit low	Wiring, short to earth, TFP sensor, ECM/PCM/TCM	
P0989	Transmission fluid pressure (TFP) switch E - circuit low	Wiring, short to earth, TFP switch, ECM/PCM/TCM	

P0990	Transmission fluid pressure (TFP) sensor E - circuit high	Wiring, short to positive, TFP sensor, ECM/PCM/TCM
P0990	Transmission fluid pressure (TFP) switch E - circuit high	Wiring, short to positive, TFP switch, ECM/PCM/TCM
P0991	Transmission fluid pressure (TFP) sensor E - circuit intermittent	Wiring, poor connection, TFP sensor, ECM/PCM/TCM
P0991	Transmission fluid pressure (TFP) switch E - circuit intermittent	Wiring, poor connection, TFP switch, ECM/PCM/TCM
P0992	Transmission fluid pressure (TFP) sensor F - circuit malfunction	Wiring, poor connection, TFP sensor, ECM/PCM/TCM
P0992	Transmission fluid pressure (TFP) switch F - circuit malfunction	Wiring, poor connection, TFP switch, ECM/PCM/TCM
P0993	Transmission fluid pressure (TFP) sensor F - circuit range/performance	Wiring, poor connection, TFP sensor, ECM/PCM/TCM
P0993	Transmission fluid pressure (TFP) switch F - circuit range/performance	Wiring, poor connection, TFP switch, ECM/PCM/TCM
P0994	Transmission fluid pressure (TFP) sensor F - circuit low	Wiring, short to earth, TFP sensor , ECM/PCM/TCM
P0994	Transmission fluid pressure (TFP) switch F - circuit low	Wiring, short to earth, TFP switch, ECM/PCM/TCM
P0995	Transmission fluid pressure (TFP) sensor F - circuit high	Wiring, short to positive, TFP sensor, ECM/PCM/TCM
P0995	Transmission fluid pressure (TFP) switch F - circuit high	Wiring, short to positive, TFP switch, ECM/PCM/TCM
P0996	Transmission fluid pressure (TFP) sensor F - circuit intermittent	Wiring, poor connection, TFP sensor, ECM/PCM/TCM
P0996	Transmission fluid pressure (TFP) switch F - circuit intermittent	Wiring, poor connection, TFP switch, ECM/PCM/TCM
P0997	Shift solenoid (SS) F - control circuit range/performance	Wiring, poor connection, shift solenoid, ECM/PCM/TCM
P0998	Shift solenoid (SS) F - control circuit low	Wiring short to earth, shift solenoid, ECM/PCM/TCM
P0999	Shift solenoid (SS) F - control circuit high	Wiring short to positive, shift solenoid, ECM/PCM/TCM



System description

- Driver's and front passenger's airbags fitted as standard.
- 1999 ➡: Front passenger's airbag seat pressure sensor fitted as standard.
- 1999 ➡ : Front side airbags fitted as standard.
- · Airbag locations identified by the inscription 'Airbag'.
- · Airbag warning label located in glove compartment.
- Airbag warning label located on spiral cable.
- Airbag warning label located on slam panel, under bonnet.
- Airbag warning label located on SRS control module.
- SRS control module mounted separately.
- Pyrotechnic pretensioners fitted as standard on front seat belts.

Special attention

- To prevent personal injury, expansion area of all airbags MUST remain clear.
- Steering wheel spiral cable has limited rotary movement.
- Centralise steering before disconnecting steering column. To prevent damage, ensure steering wheel and spiral cable DO NOT rotate before or during reassembly.
- Manufacturer recommends airbag replacement every 10 years. For further information refer to label in glove compartment.
- Pyrotechnic pretensioners are electrically triggered by SRS control module.

SRS warning lamp

Operation

- Switch ignition ON.
- SRS warning lamp illuminates.
- Lamp extinguishes after approximately 4 seconds.
- If not: Refer to Self-diagnosis section.
- SRS control module fault memory can only be checked using diagnostic equipment connected to the data link connector (DLC).

Disarm the system

When

- Fascia/instrument panel removal or replacement.
- Front passenger's seat repair or replacement, if seat pressure sensor fitted.
- Front seat belt removal or replacement.
- Front seat repair or replacement, if side airbags fitted.
- Repair work around SRS components, especially airbags and pretensioners.
- SRS component removal or replacement.
- Steering wheel/column repair or replacement.
- Welding operations.

How

- Ensure ignition switched OFF.
- Remove ignition key.
- Disconnect all battery leads. Make sure accidental reconnection is not possible.
- Wait 10 minutes before commencing work.

Additional procedures

- Disconnect SRS control module when repairing bodywork.
- Disconnect airbag(s) and pyrotechnic pretensioners when repairing or welding bodywork.
- Remove airbag(s), pyrotechnic pretensioners and SRS control module, if temperature is likely to be more than 85°C.
- Remove SRS control module when welding near component.
- Remove pyrotechnic pretensioner when repairing or welding bodywork near component.

Arm the system

How

- Ensure ignition switched OFF.
- Reconnect all battery leads.
- Switch ignition ON.
- Check SRS warning lamp operation.

After deployment

Check

- All mounting brackets for SRS components.
- All SRS components including undeployed airbag(s)/pretensioner(s).
- Fascia/instrument panel.
- Seat assemblies.
- Seat belts, including buckles and anchorage points.
- Steering wheel and column.
- Surrounding components and trims.
- SRS control module and bracket.
- SRS wiring harness and multi-plugs for charred or damaged areas.

Renew

- All deployed or damaged airbags.
- Fascia/instrument panel, if damaged.
- Mounting brackets, if damaged.
- Seat belt(s), if damaged or pretensioner(s) deployed.
- Seat components, if damaged.
- Side crash sensor, if damaged or side airbag deployed.
- Spiral cable.
- Steering column, if damaged.
- Steering wheel, if damaged.
- Surrounding components and trims, if damaged.
- SRS control module, if damaged or front airbag(s) deployed.
- SRS control module, if pyrotechnic pretensioner(s) deployed 3 times.
- SRS wiring harness and multi-plugs, if charred or damaged areas found.

Disposal

• Vehicle manufacturer suggests that deployed SRS components are sealed in a plastic bag and disposed of in accordance with local regulations.

Steering wheel removal and installation

Manufacturer: Lancia	Model: Kappa 2,0	© Autodata Limited 2004
Engine code: 838A1.000	Output: 107 (145) 6100	2006.10.21.
Tuned for: R-Cat	Vear: 1994-02	V5.500- Autodata

Special attention

- Disarm system and remove driver's airbag.
- Centralise steering and disconnect spiral cable multi-plug(s) before removing steering wheel.
- Before removing steering wheel, mark its position on steering column.
- Remove screws securing steering wheel to spiral cable Fig. 1 [1].
- Spiral cable should not be allowed to rotate once steering wheel removed.
- Once rotated renew spiral cable.
- Ensure spiral cable remains centralised during reassembly.
- Replacement spiral cable held in central position by cable ties Fig. 2 [1]. Remove during installation.

Steering wheel and airbag assembly <u>Fig. 1</u> Spiral cable <u>Fig. 2</u>

Tightening torques

Driver's airbag	6 Nm
Front passenger's airbag 7 Nm	
Front seat belt inertia reel 40-50 Nn	
Front seat belt buckle	50 Nm
Front seat belt lower anchorage point Not specif	
Front seat belt upper anchorage point 50 Nm	
Front side airbag	Not specified
Side crash sensor Not spec	
Steering wheel	50 Nm
SRS control module	Not specified





Airbag self diagnosis

- SRS control module incorporates self-diagnosis function.
 SRS warning lamp will illuminate if certain faults are recorded AT

Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02

© Autodata Limited 2004 2006.10.21. V5.500- /Autodata

SRS diagnostic connector location Fig. 2



NOTE: On vehicles with a 30-pin SRS control module, fault memory can only be checked using diagnostic equipment connected to the data link connector (DLC).

- Switch ignition ON.
- Bridge SRS diagnostic connector terminal 1 (light blue/white wire) and earth with a switched lead. Contacts normally open Fig. 1.
- Operate switch for 1-5 seconds.
- Count SRS warning lamp flashes.
- Note trouble code.
- Compare with trouble code table.
- Switch ignition OFF.
- If another trouble code is stored:
- Repeat checking procedure.
- SRS control module fault memory can also be checked using diagnostic equipment connected to the SRS diagnostic connector.

NOTE: SRS control module fault memory can only display one trouble code at a time.



- Switch ignition ON.
- Operate switch for 5-10 seconds to erase trouble code.
- Repeat checking procedure to ensure no data remains in SRS control module fault memory.
- If another trouble code is displayed:
- Repeat erasing procedure.
- Diagnostic equipment can also be used to erase data from SRS control module fault memory.

NOTE: SRS control module fault memory can only be erased if specified fault is repaired.

Trouble code	Fault location	Probable cause
1	No fault found	-
2	SRS control module	SRS control module
3	SRS wiring harness	Wiring, short circuit to positive
4	SRS wiring harness	Wiring, short circuit to earth
5	Driver's airbag, igniter circuit	Wiring, driver's airbag, resistance
6	Passenger's airbag, igniter circuit	Wiring, passenger's airbag, resistance
7	Supply voltage too low	Battery
8	SRS warning lamp	Warning lamp circuit, bulb, wiring
9	Crash data stored	Renew recommended components
10	Pretensioner wiring	Wiring, short circuit to positive
11	Pretensioner wiring	Wiring, short circuit to earth
12	Front seat belt pretensioner, driver's side	Seat belt pretensioner
13	Front seat belt pretensioner, passenger's side	Seat belt pretensioner

Service intervals

Service: 9 000 miles/12 months		
Service time (hrs):	1,10	
Total service time:	1,10	

OK - Checked/Completed Veeds attention - see notes

VEHICLE ON FLOOR

1.0320 Body work/paint	Check	
	condition	
	Drain/rofill	
2.0020 Engine oil	Diaminenii	
2.0030 Engine on Intel	Chock/report	
2.0000 Clutch hydraulic system	Check/report	
2.0450 BAS bosos	Check/Tepon	
2.0400 FAS hoses	Check/report	
2.0560 Drive shaft joints/seals/galters	Check/report	
2.0670 Exhaust sustain/mountings	Check/report	
2.0700 Brake pipe corresion	Check/report	
2.0700 Blake pipe contraint	Check/report	
2.0750 Underbody condition/sealant	Check/report	
	Спесктероп	
3 0090	Check	
Front brake pad wear sensors	operation	-
3.0310 Brake hydraulic system	Check/report	
3.0380 Tyre condition	Check/report	
3.0410 Tyre pressures	Check/adjust	
UNDER BONNET OPERATIONS		
4.0040 Battery electrolyte level	Check/top-	
	up	_
4.0070 Washer bottle(s)	Check/top-	
1 0000	up Chaak/tan	
4.0080 Brake fluid reservoir	Спеск/тор-	
4 0090	Check/top-	
Clutch fluid reservoir	up	
4.0110 Bower steering fluid	Check/top-	
	up	
4.0140 Coolant level/anti-freeze strength	Check/adjust	
4.0160 Coolant hoses	Check/report	
4.0350 Pollen filter, if fitted	Renew	
4.1232 CO content Cat	Check	

Notes/Comments:

I

Technician's signature		Date
Manufacturer: Lancia	Model: Kappa 2,0	© Autodata Limited 2004
Engine code: 838A1.000	Output: 107 (145) 6100	2006.10.21
Tuned for P Cot	Veer: 1004.02	
Service: 18 000 miles/24 months		
---------------------------------	------	--
Service time (hrs):	1,70	
Total service time:	1,70	

VEHICLE ON FLOOR

1.0100 Fault diagnosis codes			Check	
1.0320 Body work/paint			Check condition	
	VEHICLE FULLY RAISED			
2.0020 Engine oil			Drain/refill	
2.0030 Engine oil filter			Renew	
2.0080 Clutch hydraulic system			Check/report	
2.0230 Auto transmission linkage			Check/lubricate	
2.0430 Steering rack/box			Check/report	
2.0450 PAS hoses			Check	
2.0500 Suspension joints/seals/gaite	rs		Check/report	
2.0560 Drive shaft joints/seals/gaiters	8		Check/report	
2.0670 Exhaust system/mountings			Check/report	
2.0700 Brake pipe corrosion			Check/report	
2.0720 Fuel system leakage			Check/report	
2.0750 Underbody condition/sealant			Check/report	
	VEHICLE HALF RAISED			
3.0090 Front brake pad wear sensors	3		Check operation	
3.0190 Rear brake pads			Check/report	
3.0310 Brake hydraulic system			Check/report	
3.0380 Tyre condition			Check/report	
3.0410 Tyre pressures			Check/adjust	
	UNDER BONNET OPERATIONS			
4.0040 Battery electrolyte level			Check/top-up	
4.0070 Washer bottle(s)			Check/top-up	
4.0080 Brake fluid reservoir			Check/top-up	
4.0090 Clutch fluid reservoir			Check/top-up	
4.0110 Power steering fluid			Check/top-up	
4.0140 Coolant level/anti-freeze strer	ngth		Check/adjust	
4.0160 Coolant hoses			Check/report	
4.0240 Air filter			Renew	
4.0350 Pollen filter, if fitted			Renew	
4.0760 Auxiliary drive belt/s			Check/adjust	
4.1232 CO content Cat			Check	
	FINAL ITEMS CHECK			
5.0040 Engine self-diagnosis system			Check/report	
Notes/Comments:				
Technician's signature		Date		
nufacturer: Lancia	Model: Kappa 2,0		© Autodata Lim	ited
Jine code: 838A1.000	Output: 107 (145) 6100		20	U6.1
neg tor: R-Cat	Year: 1994-02		V5.500/Au	in

Service: 27 000 miles/36 months		
Service time (hrs):	1,50	
Total service time:	1,50	

VEHICLE ON FLOOR

1.0320 Body work/paint	Check condition	
VEHICLE FULLY RAISED		
2.0020 Engine oil	Drain/refill	
2.0030 Engine oil filter	Renew	
2.0080 Clutch hydraulic system	Check/report	
2.0110 Gearbox oil	Check/top-up	
2.0190 Auto transmission oil	Drain/refill	
2.0200 Auto transmission oil filter	Renew	
2.0430 Steering rack/box	Check/report	
2.0450 PAS hoses	Check	
2.0500 Suspension joints/seals/gaiters	Check/report	
2.0560 Drive shaft joints/seals/gaiters	Check/report	
2.0670 Exhaust system/mountings	Check/report	
2.0700 Brake pipe corrosion	Check/report	
2.0720 Fuel system leakage	Check/report	
2.0750 Underbody condition/sealant	Check/report	
VEHICLE HALF RAISED		
3.0090 Front brake pad wear sensors	Check operation	
3.0310 Brake hydraulic system	Check/report	
3.0380 Tyre condition	Check/report	
3.0410 Tyre pressures	Check/adjust	
UNDER BONNET OPERATIONS		
4.0040 Battery electrolyte level	Check/top-up	
4.0070 Washer bottle(s)	Check/top-up	
4.0080 Brake fluid reservoir	Check/top-up	
4.0090 Clutch fluid reservoir	Check/top-up	
4.0110 Power steering fluid	Check/top-up	
4.0140 Coolant level/anti-freeze strength	Check/adjust	
4.0160 Coolant hoses	Check/report	
4.0350 Pollen filter, if fitted	Renew	
4.0830 Spark plugs	Renew	
4.1232 CO content Cat	Check	
4.1260 Oxygen sensor	Check/report	

Notes/Comments:

 Manufacturer: Lancia
 Model: Kappa 2,0
 © Autodata Limited 2004

 Engine code: 838A1.000
 Output: 107 (145) 6100
 2006.10.21.

 Tuned for: R-Cat
 Year: 1994-02
 V5.500 /Autodata

Service: 36 000 miles/48 months				
Service time (hrs): 2,20				
Total service time: 2,20				

VEHICLE ON FLOOR

1.0100 Fault diagnosis codes	Check	
1.0320 Body work/paint	Check condition	
VEHICLE FULLY R	AISED	
2.0020 Engine oil	Drain/refill	
2.0030 Engine oil filter	Renew	
2.0080 Clutch hydraulic system	Check/report	
2.0230 Auto transmission linkage	Check/lubricate	
2.0430 Steering rack/box	Check/report	
2.0450 PAS hoses	Check	
2.0500 Suspension joints/seals/gaiters	Check/report	
2.0560 Drive shaft joints/seals/gaiters	Check/report	
2.0670 Exhaust system/mountings	Check/report	
2.0700 Brake pipe corrosion	Check/report	
2.0720 Fuel system leakage	Check/report	
2.0750 Underbody condition/sealant	Check/report	
VEHICLE HALF R	AISED	
3.0090 Front brake pad wear sensors	Check operation	
3.0190 Rear brake pads	Check/report	
3.0310 Brake hydraulic system	Check/report	
3.0380 Tyre condition	Check/report	
3.0410 Tyre pressures	Check/adjust	
UNDER BONNET OPE	RATIONS	
4.0040 Battery electrolyte level	Check/top-up	
4.0070 Washer bottle(s)	Check/top-up	
4.0080 Brake fluid reservoir	Check/top-up	
4.0090 Clutch fluid reservoir	Check/top-up	
4.0110 Power steering fluid	Check/top-up	
4.0140 Coolant level/anti-freeze strength	Check/adjust	
4.0160 Coolant hoses	Check/report	
4.0240 Air filter	Renew	
4.0350 Pollen filter, if fitted	Renew	
4.0460 Petrol fuel filter - injection	Renew	
4.0760 Auxiliary drive belt/s	Check/adjust	
4.1232 CO content Cat	Check	
FINAL ITEMS CH	IECK	
5.0040 Engine self-diagnosis system	Check/report	

|--|

Service: 45 000 miles/60 months		
Service time (hrs):	1,10	
Total service time: 1,10		

VEHICLE ON FLOOR

1.0320 Body work/paint	Check	
	condition	
2.0020 Engine oil	Drain/refill	
2.0030 Engine oil filter	Renew	
2.0080 Clutch hydraulic system	Check/report	
2.0430 Steering rack/box	Check/report	
2.0450 PAS hoses	Check	
2.0500 Suspension joints/seals/gaiters	Check/report	
2.0560 Drive shaft joints/seals/gaiters	Check/report	
2.0670 Exhaust system/mountings	Check/report	
2.0700 Brake pipe corrosion	Check/report	
2.0720 Fuel system leakage	Check/report	
2.0750 Underbody condition/sealant	Check/report	
VEHICLE HALF RAISED		
3.0090 Front brake pad wear sensors	Check operation	
3.0310 Brake hydraulic system	Check/report	
3.0380 Tyre condition	Check/report	
3.0410 Tyre pressures	Check/adjust	
UNDER BONNET OPERATIONS		
4.0040 Battery electrolyte level	Check/top- up	
4.0070 Washer bottle(s)	Check/top- up	
4.0080 Prote fluid reconveir	Check/top-	
Blake huid reservoir	up	
4.0090 Clutch fluid reservoir	Check/top- up	
4.0110 Power steering fluid	Check/top- up	
4.0140 Coolant level/anti-freeze strength	Check/adjust	
4.0160 Coolant hoses	Check/report	
4.0350 Pollen filter, if fitted	Renew	
4.1232 CO content Cat	Check	

Notes/Comments:

ſ

Technician's signature		Date
Manufacturer: Lancia	Model: Kappa 2,0	© Autodata Limited 2004
Engine code: 838A1.000	Output: 107 (145) 6100	2006.10.21.
Tuned for D. Cot	Veen 1001.02	

Service: 54 000 miles/72 months		
Service time (hrs):	2,15	
Total service time:	2,15	

VEHICLE ON FLOOR

1.0100 Fault diagnosis codes	Check	
1.0320 Body work/paint	Check condition	
	VEHICLE FULLY RAISED	
2.0020 Engine oil	Drain/refill	
2.0030 Engine oil filter	Renew	
2.0080 Clutch hydraulic system	Check/report	
2.0110 Gearbox oil	Check/top-up	
2.0190 Auto transmission oil	Drain/refill	
2.0200 Auto transmission oil filter	Renew	
2.0230 Auto transmission linkage	Check/lubricate	
2.0430 Steering rack/box	Check/report	
2.0450 PAS hoses	Check	
2.0500 Suspension joints/seals/gaiters	Check/report	
2.0560 Drive shaft joints/seals/gaiters	Check/report	
2.0670 Exhaust system/mountings	Check/report	
2.0700 Brake pipe corrosion	Check/report	
2.0720 Fuel system leakage	Check/report	
2.0750 Underbody condition/sealant	Check/report	
	VEHICLE HALF RAISED	
3.0090 Front brake pad wear sensors	Check operation	
3.0190 Rear brake pads	Check/report	
3.0310 Brake hydraulic system	Check/report	
3.0380 Tyre condition	Check/report	
3.0410 Tyre pressures	Check/adjust	
	UNDER BONNET OPERATIONS	
4.0040 Battery electrolyte level	Check/top-up	
4.0070 Washer bottle(s)	Check/top-up	
4.0080 Brake fluid reservoir	Check/top-up	
4.0090 Clutch fluid reservoir	Check/top-up	
4.0110 Power steering fluid	Check/top-up	
4.0140 Coolant level/anti-freeze strength	Check/adjust	
4.0160 Coolant hoses	Check/report	
4.0240 Air filter	Renew	
4.0350 Pollen filter, if fitted	Renew	
4.0640 Crankcase ventilation	Check/clean	
4.0760 Auxiliary drive belt/s	Check/adjust	
4.0830 Spark plugs	Renew	
4.1232 CO content Cat	Check	
4.1260 Oxygen sensor	Check/report	
	FINAL ITEMS CHECK	
5.0040 Engine self-diagnosis system	Check/report	

|--|

Service: 63 000 miles/84 months		
Service time (hrs):	3,35	
Total service time:	3,35	

VEHICLE ON FLOOR

1.0320 Body work/paint	Check	
	condition	
	Drein /refill	
2.0020 Engine oli	Drain/refill	
	Renew	
2.0080 Clutch hydraulic system	Check/report	
2.0430 Steering rack/box	Check/report	
2.0450 PAS hoses	Check	
2.0500 Suspension joints/seals/gaiters	Check/report	
2.0560 Drive shaft joints/seals/gaiters	Check/report	
2.0670 Exhaust system/mountings	Check/report	
2.0700 Brake pipe corrosion	Check/report	
2.0720 Fuel system leakage	Check/report	
2.0750 Underbody condition/sealant	Check/report	
VEHICLE HALF RAISED		
^{3.0090} Front brake pad wear sensors	Check operation	
3.0310 Brake hydraulic system	Check/report	
3.0380 Tyre condition	Check/report	
3.0410 Tyre pressures	Check/adjust	
UNDER BONNET OPERATIONS		
	Check/top-	
Battery electrolyte level	up	
4.0070 Washer hettle(c)	Check/top-	
Washer bollie(s)	up	
4.0080 Brake fluid reservoir	Check/top-	
	up	_
4.0090 Clutch fluid reservoir	Check/top-	
4.0440	Chaek/teep	
4.0110 Power steering fluid	Uneck/top-	
4.0140 Coolant level/anti-freeze strength	Check/adjust	
4.0160 Coolant hoses	Check/report	
4.0350 Pollen filter, if fitted	Renew	
4.0722 Timing belt	Renew	
4.1232 CO content Cat	Check	
	0110011	2

Notes/Comments:

Technician's signature

Manufacturer: Lancia
Engine code: 838A1.000
Tuned for: R-Cat

Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02 Date

© Autodata Limited 2004

V5.500- /Autodata

2006.10.21.

Service: 72 000 miles/96 months		
Service time (hrs):	2,50	
Total service time:	2,50	

VEHICLE ON FLOOR

1.0100 Fault diagnosis codes	Check	
1.0320 Body work/paint	Check condition	
	VEHICLE FULLY RAISED	
2.0020 Engine oil	Drain/refill	
2.0030 Engine oil filter	Renew	
2.0080 Clutch hydraulic system	Check/report	
2.0120 Gearbox oil	Drain/refill	
2.0230 Auto transmission linkage	Check/lubricate	
2.0430 Steering rack/box	Check/report	
2.0450 PAS hoses	Check	
2.0500 Suspension joints/seals/gaiters	Check/report	
2.0560 Drive shaft joints/seals/gaiters	Check/report	
2.0670 Exhaust system/mountings	Check/report	
2.0700 Brake pipe corrosion	Check/report	
2.0720 Fuel system leakage	Check/report	
2.0750 Underbody condition/sealant	Check/report	
	VEHICLE HALF RAISED	
3.0090 Front brake pad wear sensors	Check operation	
3.0190 Rear brake pads	Check/report	
3.0310 Brake hydraulic system	Check/report	
3.0380 Tyre condition	Check/report	
3.0410 Tyre pressures	Check/adjust	
	UNDER BONNET OPERATIONS	
4.0040 Battery electrolyte level	Check/top-up	
4.0070 Washer bottle(s)	Check/top-up	
4.0080 Brake fluid reservoir	Check/top-up	
4.0090 Clutch fluid reservoir	Check/top-up	
4.0110 Power steering fluid	Check/top-up	
4.0140 Coolant level/anti-freeze strength	Check/adjust	
4.0160 Coolant hoses	Check/report	
4.0240 Air filter	Renew	
4.0350 Pollen filter, if fitted	Renew	
4.0460 Petrol fuel filter - injection	Renew	
4.0760 Auxiliary drive belt/s	Check/adjust	
4.1232 CO content Cat	Check	
	FINAL ITEMS CHECK	
5.0040 Engine self-diagnosis system	Check/report	

|--|

Service: 81 000 miles/108 months		
Service time (hrs):	1,45	
Total service time:	1,45	

VEHICLE ON FLOOR

1.0320 Body work/paint	Check condition		
VEHICLE FULLY RAISED			
2.0020 Engine oil	Drain/refill		
2.0030 Engine oil filter	Renew		
2.0080 Clutch hydraulic system	Check/report		
2.0110 Gearbox oil	Check/top-up		
2.0190 Auto transmission oil	Drain/refill		
2.0200 Auto transmission oil filter	Renew		
2.0430 Steering rack/box	Check/report		
2.0450 PAS hoses	Check		
2.0500 Suspension joints/seals/gaiters	Check/report		
2.0560 Drive shaft joints/seals/gaiters	Check/report		
2.0670 Exhaust system/mountings	Check/report		
2.0700 Brake pipe corrosion	Check/report		
2.0720 Fuel system leakage	Check/report		
2.0750 Underbody condition/sealant	Check/report		
VEHICLE HALF RAISED			
3.0090 Front brake pad wear sensors	Check operation		
3.0310 Brake hydraulic system	Check/report		
3.0380 Tyre condition	Check/report		
3.0410 Tyre pressures	Check/adjust		
UNDER BONNET OPERATIONS			
4.0040 Battery electrolyte level	Check/top-up		
4.0070 Washer bottle(s)	Check/top-up		
4.0080 Brake fluid reservoir	Check/top-up		
4.0090 Clutch fluid reservoir	Check/top-up		
4.0110 Power steering fluid	Check/top-up		
4.0140 Coolant level/anti-freeze strength	Check/adjust		
4.0160 Coolant hoses	Check/report		
4.0350 Pollen filter, if fitted	Renew		
4.0830 Spark plugs	Renew		
4.1232 CO content Cat	Check		
4.1260 Oxygen sensor	Check/report		

Notes/Comments:

 Manufacturer: Lancia
 Model: Kappa 2,0
 © Autodata Limited 2004

 Engine code: 838A1.000
 Output: 107 (145) 6100
 2006.10.21.

 Tuned for: R-Cat
 Year: 1994-02
 V5.500 /Autodata

Service: 90 000 miles/120 months		
Service time (hrs):	1,70	
Total service time:	1,70	

VEHICLE ON FLOOR

nod for: R-Cat	Voar 1994-02		20 \/5 500 //s.r	tod
Inutacturer: Lancia	Model: Kappa 2,0 Output: 107 (145) 6100		C Autodata Limi مە	ted : 06 1
nufacturer: Lancia	Model: Kappa 2.0		© Autodata Limi	ted
Technician's signature		Date		
Notes/Comments:				
5.0040 Engine self-diagnosis sy	stem		Check/report	
	FINAL ITEMS CHECK			_
4.1232 CO content Cat			Check	
4.0760 Auxiliary drive belt/s			Check/adjust	
4.0350 Pollen filter, if fitted			Renew	
4.0240 Air filter			Renew	
4.0160 Coolant hoses			Check/report	
4.0140 Coolant level/anti-freeze	strength		Check/adjust	
4.0110 Power steering fluid			Check/top-up	
4.0090 Clutch fluid reservoir			Check/top-up	Γ
4.0080 Brake fluid reservoir			Check/top-up	
4.0070 Washer bottle(s)			Check/top-up	
4.0040 Battery electrolyte level			Check/top-up	
	UNDER BONNET OPERATIONS			
3.0410 Tyre pressures			Check/adjust	Г
3.0380 Tyre condition			Check/report	
3.0310 Brake hydraulic system			Check/report	Γ
3.0190 Rear brake pads			Check/report	
3.0090 Front brake pad wear se	ensors		Check operation	
	VEHICLE HALF RAISED			
2.0750 Underbody condition/sea	alant		Check/report	
2.0720 Fuel system leakage			Check/report	
2.0700 Brake pipe corrosion			Check/report	
2.0670 Exhaust system/mountin	ngs		Check/report	Γ
2.0560 Drive shaft joints/seals/o	aiters		Check/report	
2.0500 Suspension joints/seals/	gaiters		Check/report	Ē
2 0450 PAS hoses			Check	Ē
2.0430 Steering rack/box			Check/report	
2 0230 Auto transmission linkad	le		Check/lubricate	Ē
2 0080 Clutch hydraulic system			Check/report	
2.0020 Engine oil filter			Renew	
	VEHICLET VEET RAISED		Drain/rofill	
1.0520 Body work paint			Check condition	
1.0100 Fault diagnosis codes			Спеск	
1 0100 Equit diagnosis and a			Charle	

Service: 99 000 miles/132 months		
Service time (hrs):	1,15	
Total service time:	1,15	

VEHICLE ON FLOOR

1.0320 Body work/paint	Check	
	condition	
		_
2.0020 Engine oil	Drain/refill	
2.0030 Engine oil filter	Renew	
2.0080 Clutch hydraulic system	Check/report	
2.0430 Steering rack/box	Check/report	
2.0450 PAS hoses	Check	
2.0500 Suspension joints/seals/gaiters	Check/report	
2.0560 Drive shaft joints/seals/gaiters	Check/report	
2.0670 Exhaust system/mountings	Check/report	
2.0700 Brake pipe corrosion	Check/report	
2.0720 Fuel system leakage	Check/report	
2.0750 Underbody condition/sealant	Check/report	
VEHICLE HALF RAISED		
3.0090 Front brake pad wear sensors	Check operation	
3.0310 Brake hydraulic system	Check/report	
3.0380 Tyre condition	Check/report	
3.0410 Tyre pressures	Check/adjust	
UNDER BONNET OPERATIONS		
4.0040 Battery electrolyte level	Check/top- up	
4.0070 Washer bottle(s)	Check/top- up	
4.0080 Brake fluid reservoir	Check/top-	
	up	_
4.0090 Clutch fluid reservoir	Check/top- up	
4.0110 Power steering fluid	Check/top- up	
4.0140 Coolant level/anti-freeze strength	Check/adjust	
4.0160 Coolant hoses	Check/report	
4.0350 Pollen filter, if fitted	Renew	
4.1232 CO content Cat	Check	

Notes/Comments:

ſ

Technician's signature		Date
Manufacturer: Lancia	Model: Kappa 2,0	© Autodata Limited 2004
Engine code: 838A1.000	Output: 107 (145) 6100	2006.10.21
Tuned for P Cot	Veer: 1004.02	

Service: 108 000 miles/144 months		
Service time (hrs):	2,60	
Total service time:	2,60	

_

VEHICLE ON FLOOR

1.0100 Fault diagnosis codes	Check	
1.0320 Body work/paint	Check condition	
VEHICLE FULLY RAISED		
2.0020 Engine oil	Drain/refill	
2.0030 Engine oil filter	Renew	
2.0080 Clutch hydraulic system	Check/report	
2.0110 Gearbox oil	Check/top-up	
2.0190 Auto transmission oil	Drain/refill	
2.0200 Auto transmission oil filter	Renew	
2.0230 Auto transmission linkage	Check/lubricate	
2.0430 Steering rack/box	Check/report	
2.0450 PAS hoses	Check	
2.0500 Suspension joints/seals/gaiters	Check/report	
2.0560 Drive shaft joints/seals/gaiters	Check/report	
2.0670 Exhaust system/mountings	Check/report	
2.0700 Brake pipe corrosion	Check/report	
2.0720 Fuel system leakage	Check/report	
2.0750 Underbody condition/sealant	Check/report	
VEHICLE HALF RAISED		
3.0090 Front brake pad wear sensors	Check operation	
3.0190 Rear brake pads	Check/report	
3.0310 Brake hydraulic system	Check/report	
3.0380 Tyre condition	Check/report	
3.0410 Tyre pressures	Check/adjust	
UNDER BONNET OPERATIONS		
4.0040 Battery electrolyte level	Check/top-up	
4.0070 Washer bottle(s)	Check/top-up	
4.0080 Brake fluid reservoir	Check/top-up	
4.0090 Clutch fluid reservoir	Check/top-up	
4.0110 Power steering fluid	Check/top-up	
4.0140 Coolant level/anti-freeze strength	Check/adjust	
4.0160 Coolant hoses	Check/report	
4.0240 Air filter	Renew	
4.0350 Pollen filter, if fitted	Renew	
4.0460 Petrol fuel filter - injection	Renew	
4.0640 Crankcase ventilation	Check/clean	
4.0760 Auxiliary drive belt/s	Check/adjust	
4.0830 Spark plugs	Renew	
4.1232 CO content Cat	Check	
4.1260 Oxygen sensor	Check/report	
FINAL ITEMS CHECK		_
5.0040 Engine self-diagnosis system	Check/report	

Technician's signature	Da	fe

Trouble shooter Engine will not start

- Immobilizer
- Starter/battery/circuits
- Electrical connections engine
- Engine compression
- Ignition system
- Air intake system/vacuum system leaks
- Fuel tank/fuel level
- Fuel pump/fuse
- Fuel pressure/delivery rate/fuel pressure regulator
- Condition of fuel/fuel filter
- Crankshaft position (CKP) sensor/engine speed (RPM) sensor
- Mass air flow (MAF) sensor
- Manifold absolute pressure (MAP) sensor
- Engine coolant temperature (ECT) sensor
- Injectors
- Camshaft position (CMP) sensor
- Engine management system connections/wiring/relays
- Exhaust system/catalytic converter
- Engine control module (ECM)

Trouble shooter Engine difficult to start cold

- Electrical connections engine/battery
- Engine compression
- Air intake system/vacuum system leaks
- Fuel tank/fuel level
- Fuel pressure/delivery rate/fuel pressure regulator
- Condition of fuel/fuel filter
- Ignition system
- Fuel pump
- Engine coolant temperature (ECT) sensor
- Mass air flow (MAF) sensor
- Manifold absolute pressure (MAP) sensor
- Throttle position (TP) sensor
- Injectors
- Intake air temperature (IAT) sensor
- Barometric pressure (BARO) sensor
- Crankshaft position (CKP) sensor/engine speed (RPM) sensor
- Camshaft position (CMP) sensor
- Engine management system connections/wiring
- Exhaust system/catalytic converter
- Engine control module (ECM)

Engine difficult to start engine warm

- Electrical connections engine/battery
- Air intake system/vacuum system leaks
- Engine compression
- Fuel tank/fuel level
- Ignition system
- Fuel pressure/delivery rate/fuel pressure regulator
- Condition of fuel/fuel filter
- Fuel pump/non-return valve
- Evaporative emission (EVAP) canister purge valve
- Engine coolant temperature (ECT) sensor
- Mass air flow (MAF) sensor
- Manifold absolute pressure (MAP) sensor
- Injectors
- Intake air temperature (IAT) sensor
- Crankshaft position (CKP) sensor/engine speed (RPM) sensor
- Camshaft position (CMP) sensor
- Barometric pressure (BARO) sensor
- Engine management system connections/wiring
- Engine control module (ECM)
- Exhaust system/catalytic converter

Engine starts then stops

- Immobilizer
- Engine control module (ECM) basic setting
- Air intake system/vacuum system leaks
- Fuel pressure/delivery rate/fuel pressure regulator
- Fuel tank/fuel level
- Evaporative emission (EVAP) canister purge valve
- Exhaust gas recirculation (EGR) valve
- Idle air control (IAC) valve
- Idle speed control (ISC) actuator
- Idle speed control (ISC) actuator position sensor
- Mass air flow (MAF) sensor
- Manifold absolute pressure (MAP) sensor
- Throttle position (TP) sensor
- Engine coolant temperature (ECT) sensor
- Engine management system connections/wiring
- Engine control module (ECM)
- Exhaust system/catalytic converter

Misfire

- Ignition system
- Air intake system/vacuum system leaks
- Fuel tank/fuel level
- Fuel pressure/delivery rate/fuel pressure regulator
- Condition of fuel/fuel filter
- Fuel pump
- Engine compression
- Engine management system connections/wiring

Lack of power

Telephone: Fax: VAT Registration No.:

- Accelerator cable/adjustment
- Air filter
- Air intake system/vacuum system leaks/blockage
- Fuel tank/fuel level
- Fuel pressure/delivery rate/fuel pressure regulator
- Condition of fuel/fuel filter
- Fuel pump
- Heated oxygen sensor (HO2S)
- Camshaft position (CMP) actuator
- Turbocharger (TC) wastegate regulating valve
- Intake manifold air control solenoid
- Exhaust gas recirculation (EGR) valve
- Engine coolant temperature (ECT) sensor
- Injectors
- Ignition system/control
- Knock sensor(s) (KS)
- Throttle position (TP) sensor
- Mass air flow (MAF) sensor
- Manifold absolute pressure (MAP) sensor
- Barometric pressure (BARO) sensor
- Exhaust system/catalytic converter
- Engine management system connections/wiring
- Engine control module (ECM)

Excessive fuel consumption

- Air filter
- Air intake system/vacuum system leaks/blockage
- Engine coolant temperature (ECT) sensor
- Fuel pressure/delivery rate/fuel pressure regulator
- Throttle position (TP) sensor
- Closed throttle position (CTP) switch
- Injectors
- Mass air flow (MAF) sensor
- Manifold absolute pressure (MAP) sensor
- Intake air temperature (IAT) sensor
- Heated oxygen sensor (HO2S)
- Exhaust system/catalytic converter
- Engine control module (ECM)

Idlespeed too low or high

- Accelerator cable/adjustment
- Air intake system/vacuum system leaks/blockage
- Engine control module (ECM) basic setting/coding
- Evaporative emission (EVAP) canister purge valve
- Exhaust gas recirculation (EGR) valve
- Heated oxygen sensor (HO2S)
- Closed throttle position (CTP) switch
- Idle air control (IAC) valve
- Idle speed control (ISC) actuator
- Idle speed control (ISC) actuator position sensor
- Throttle position (TP) sensor
- Engine coolant temperature (ECT) sensor
- Mass air flow (MAF) sensor
- Manifold absolute pressure (MAP) sensor
- Exhaust system/catalytic converter
- Engine management system connections/wiring
- Engine control module (ECM)

Engine surging

- Air intake system/vacuum system leaks
- Fuel tank/fuel level
- Fuel pressure/delivery rate/fuel pressure regulator
- Condition of fuel/fuel filter
- Fuel pump
- Evaporative emission (EVAP) canister purge valve
- Exhaust gas recirculation (EGR) valve
- Injectors
- Mass air flow (MAF) sensor
- Manifold absolute pressure (MAP) sensor
- Intake air temperature (IAT) sensor
- Throttle position (TP) sensor
- Engine management system connections/wiring
- Engine control module (ECM)

Erratic idling

- Engine control module (ECM) basic setting/coding
- Air intake system/vacuum system leaks
- Fuel pressure/delivery rate/fuel pressure regulator
- Condition of fuel/fuel filter
- Idle air control (IAC) valve
- Idle speed control (ISC) actuator
- Idle speed control (ISC) actuator position sensor
- Evaporative emission (EVAP) canister purge valve
- Exhaust gas recirculation (EGR) valve
- Injectors
- Engine coolant temperature (ECT) sensor
- Heated oxygen sensor (HO2S)
- Mass air flow (MAF) sensor
- Manifold absolute pressure (MAP) sensor
- Intake air temperature (IAT) sensor
- Engine compression
- Engine management system connections/wiring
- Engine compression
- Engine control module (ECM)

Knockingpinking
Component check sequence

- Engine control module (ECM) basic setting
- Ignition system
- Knock sensor(s) (KS)
- Heated oxygen sensor (HO2S)
- Air intake system/vacuum system leaks
- Mass air flow (MAF) sensor
- Manifold absolute pressure (MAP) sensor
- Exhaust system/catalytic converter
- Engine control module (ECM)

Running on

Component check sequence

- Evaporative emission (EVAP) canister purge valve
- Injectors

Component locations

Telephone: Fax: VAT Registration No.:

4	AC refrigerant pressure switch
1	Aerial module
2	Airbag control module
3	Airbag diagnostic socket
5	Alarm system control module
6	Audio unit output amplifier
7	Auxiliary warning module
8	Boot lid/Tailgate lock relay
9	Central locking control module
10	Central locking signal sensor
11	Clutch pedal position (CPP) switch - 2,4TD
12	Data link connector (DLC)
13	Engine control module (ECM)
14	Engine coolant blower motor resistor
15	Fuel filler flap relay
16	Fuel heater relay
17	Fuel pump (in tank)
19	Fuse box/relay plate, engine bay 1
20	Fuse box/relay plate, engine bay 2
18	Fuse box/relay plate, fascia
21	Glow plug control module
22	Heated rear window relay
23	Immobilizer control module
24	Inertia fuel shut-off (IFS) switch
25	Power steering control module
26	Power supply fuse (60A) - engine bay fuse box/relay plate 1
27	Rear electric window control module
28	Seat adjustment control module
29	Seat belt tension actuator, driver
30	Seat belt tension actuator, passenger
31	Seat heater relay 1
32	Seat heater relay 2
33	Steering/suspension diagnostic link
34	Sunroof control module
35	Suspension control module
36	Throttle pedal position sensor - 2,4TD
37	Transmission control module (TCM)
38	Transmission diagnostic link



© Autodata Limited 2004 2006.11.12. V5.500- /Autodata

Telephone: Fax: VAT Registration No.:

1	Ignition main circuits relay
2	Indicator relay
3	Headlamp washer pump delay relay

Fascia

Π	1	2	з

Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02

1	Camshaft position (CMP) sensor
2	Camshaft position (CMP) actuator
3	Camshaft position (CMP) actuator relay
4	Crankshaft position (CKP) sensor
5	Data link connector (DLC) - under driver's side fascia
6	Engine control module (ECM) - under glovebox
7	Engine control relay
8	Engine coolant temperature (ECT) sensor
9	Engine speed (RPM) sensor
10	Evaporative emission (EVAP) canister purge valve
11	Fuel pressure regulator
12	Fuel pump - in tank
13	Fuel pump relay
14	Heated oxygen sensor (HO2S) - exhaust
15	Idle speed control (ISC) actuator
16	Ignition coils
17	Inertia fuel shut-off (IFS) switch - under driver's seat
18	Injectors
19	Intake air temperature (IAT) sensor
20	Intake manifold air control relay - 2,4
21	Intake manifold air control solenoid - 2,4
22	Knock sensors (KS)
23	Mass air flow (MAF) sensor
24	Throttle position (TP) sensor



Manufacturer: Lancia Engine code: 838A1.000 Tuned for: R-Cat

Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02 © Autodata Limited 2004 2006.10.21. V5.500- /Autodata



© Autodata Limited 2004 2006.10.21. V5.500- /Autodata

Aircondition

1	AC compressor clutch
2	AC refrigerant low pressure switch - 3,0
3	AC refrigerant pressure switch - 2,4JTD
4	AC refrigerant triple pressure switch - except 2,4JTD
5	Condenser
6	Engine coolant blower motor I
7	Engine coolant blower motor II - diesel
8	Engine coolant blower motor resistor
9	Engine coolant temperature (ECT) sensor
10	Evaporator
11	Expansion valve
12	Fuse box/relay plate - front left
13	Fuse box/relay plate - plenum chamber - centre
14	Fuse satellite 1
15	Fuse satellite 2
16	High pressure service connector
17	Low pressure service connector
18	Receiver/drier
19	Refrigerant sight glass



© Autodata Limited 2004 2006.10.21. V5.500- /Autodata

1	AC control module
2	AC fascia vent temperature sensor
3	AC footwell vent temperature sensor
4	AC sunlight sensor
5	AC/heater air direction motor
6	AC/heater air mix flap motor
7	AC/heater blower motor
8	AC/heater recirculation flap motor
9	Data link connector (DLC)
10	Engine control module (ECM)
11	Fuse box/relay plate
12	In-car temperature sensor/in-car temperature sensor blower
13	Outside air temperature sensor - in driver's door mirror



© Autodata Limited 2004 2006.10.21. V5.500- /Autodata

System information

Control system	Automatic temperature control
System layout	Single evaporator - single zone
Refrigerant circuit type	Expansion valve

General information

Self-diagnosis

- AC control module incorporates self-diagnosis function.
- AC control module trouble codes can be displayed on the control panel.
- More detailed fault diagnosis information can be obtained using diagnostic equipment connected to the data link connector (DLC). Fig. 1
- For DLC location refer to System layout and components.

Accessing trouble codes

- Ensure ignition switched OFF.
- Depress and hold 'CLIMA' switch.
- Switch ignition ON.
- 'AUTODIAGNOSTIC' should appear on the display.
- System is now in diagnostic check mode.
- Note trouble codes. Compare with trouble code table.

Trouble code identification

Trouble code	Fault location
00	No fault found
FF	No fault recognised - diagnostic equipment must be used
11	AC footwell vent temperature sensor - open circuit
12	AC footwell vent temperature sensor - short circuit to earth
13	AC footwell vent temperature sensor - short circuit to positive
14	AC footwell vent temperature sensor - open/short circuit
21	AC fascia vent temperature sensor - open circuit
22	AC fascia vent temperature sensor - short circuit to earth
23	AC fascia vent temperature sensor - short circuit to positive
24	AC fascia vent temperature sensor - open/short circuit
31	Outside air temperature sensor - open circuit
32	Outside air temperature sensor - short circuit to earth
33	Outside air temperature sensor - short circuit to positive
34	Outside air temperature sensor - open/short circuit
41	In-car temperature sensor - open circuit
42	In-car temperature sensor - short circuit to earth
43	In-car temperature sensor - short circuit to positive
44	In-car temperature sensor - open/short circuit
51	AC/heater air mix flap motor - open circuit
52	AC/heater air mix flap motor - short circuit to earth
53	AC/heater air mix flap motor - short circuit to positive
54	AC/heater air mix flap motor - open/short circuit

61	AC/heater air direction motor - open circuit
62	AC/heater air direction motor - short circuit to earth
63	AC/heater air direction motor - short circuit to positive
64	AC/heater air direction motor - open/short circuit
71	AC/heater blower motor - open circuit
72	AC/heater blower motor - short circuit to earth
73	AC/heater blower motor - short circuit to positive
74	AC/heater blower motor - open/short circuit
81	AC/heater air mix flap motor, position signal - open circuit
82	AC/heater air mix flap motor, position signal - short circuit to earth
83	AC/heater air mix flap motor, position signal - short circuit to positive
84	AC/heater air mix flap motor, position signal - open/short circuit
91	AC/heater air direction motor, position signal - open circuit
92	AC/heater air direction motor, position signal - short circuit to earth
93	AC/heater air direction motor, position signal - short circuit to positive
94	AC/heater air direction motor, position signal - open/short circuit
A1	In-car temperature sensor blower - open circuit
A2	In-car temperature sensor blower - short circuit to earth
A3	In-car temperature sensor blower - short circuit to positive
A4	In-car temperature sensor blower - open/short circuit
B1	AC compressor - open circuit
B2	AC compressor - short circuit to earth
B3	AC compressor - short circuit to positive
B4	AC compressor - open/short circuit
C1	AC sunlight sensor - open circuit
C2	AC sunlight sensor - short circuit to earth
C3	AC sunlight sensor - short circuit to positive
C4	AC sunlight sensor - open/short circuit
D1	AC/heater recirculation flap motor - open circuit
D2	AC/heater recirculation flap motor - short circuit to earth
D3	AC/heater recirculation flap motor - short circuit to positive
D4	AC/heater recirculation flap motor - open/short circuit

Erasing trouble codes

• Suitable diagnostic equipment required to erase data from AC control module fault memory.

System control

- Except 2,4 JTD: Compressor operation controlled by refrigerant triple pressure switch.
- 2,4 JTD: Compressor operation controlled by refrigerant pressure switch.

System repairs

- Access to evaporator housing from engine bay. Removal of fascia panel not required.
- Access to AC/heater blower motor from engine bay. Removal of fascia panel not required.

System service

- Refrigerant sight glass located in receiver/drier.
- ➡ 1995: Renew pollen filter every 15,000 km.

Manufacturer: Lancia	Model: Kappa 2,0
Engine code: 838A1.000	Output: 107 (145) 6100
Tuned for: R-Cat	Year: 1994-02

● 1996 ➡ : Renew pollen filter every 20,000 km or 12 months, whichever occurs first. Fig. 2

Refrigerant charging

• No instructions specified. Refer to refrigerant charging equipment operating instructions.

System fault diagnosis

• For information regarding system and component diagnosis refer to 'General test procedures' in the front section of this manual.

Fuse box/relay plates

Fascia - left Fig. 3

Fuse (Amps)	Circuit		
F6 (30A)	AC/heater blower motor		
F9 (5A)	AC compressor clutch relay		
F16 (5A)	AC control module		
F17 (5A)	AC control module, instrument panel		
Location	Component	Circuit diagram code	
1	Ignition main circuits relay	K79	

Engine bay - front left Fig. 4

Fuse (Amps)	Circuit		
F5 (10A)	AC compressor clutch relay		
F8 (50A)	Engine coolant blower motor relay II		
F9 (50A)	Engine coolant blower motor relay I		
Location	Component	Circuit diagram code	
1	Engine coolant blower motor relay II	K12-II	
4	Engine coolant blower motor relay I	K12-I	
6	AC compressor clutch relay	K143	

Plenum chamber - centre Fig. 5

Fuse (Amps)	Circuit	
F1 (60A)	1 (60A) Fuse box/relay plate, fascia - left	

Fuse satellite - engine bay - rear left Fig. 6

Fuse (Amps)	Circuit
FS1 (80A) Fuse box/relay plate, engine bay - front left	

Fuse satellite - engine bay, near battery - 2,4JTD Fig. 7

Manufacturer: Lancia	Model: Kappa 2,0	© Autodata Limited 2004
Engine code: 838A1.000	Output: 107 (145) 6100	2006.10.21.
Tuned for: R-Cat	Year: 1994-02	V5.500- /Autodata

Fuse (Amps)	Circuit
FS2 (150A)	Fuse box/relay plate, fascia - left, fuse box/relay plate, engine bay - front left

Refrigerant pressures

• Not specified.

Delivery temperature

• Not specified.

Technical data

Refrigerant		
Type R134a		
Quantities:		
Denso compressor 800 grams		
Sanden compressor	730 grams	

Refrigerant oil		
Туре:		
Denso	Dens Oil 8	
Viscosity	ISO 46	
Sanden	SP 10	
Viscosity	ISO 46	
Quantities:		
Compressor - Denso	140-170 ml	
Compressor - Sanden	240 ml	
Condenser	Not specified	
Evaporator	Not specified	
Expansion valve	Not specified	
Receiver/drier	Not specified	
System	Not specified	

Compressor clutch - Denso		
No data specified		

Compressor clutch - Sanden		
No data specified		

AC fascia vent temperature sensor		
Temperature	Resistance	
-5°C	42,3 kΩ	
O°C	33,7 kΩ	
10°C	19,9 kΩ	
20°C	12,5 kΩ	
30°C	8,1 kΩ	

AC footwell vent temperature sensor		
Temperature	Resistance	
-5°C	42,3 kΩ	
0°C	33,7 kΩ	
10°C	19,9 kΩ	
20°C	12,5 kΩ	
30°C	8,1 kΩ	

AC sunlight sensor	
Resistance	Not specified

Engine coolant temperature (ECT) sensor	
Resistance	Not specified

In-car temperature sensor	
Temperature	Resistance
-15°C	16 kΩ
-10°C	12,2 kΩ
0°C	7,2 kΩ
10°C	4,4 kΩ
20°C	2,8 kΩ
30°C	1,8 kΩ
40°C	1,2 kΩ

Outside air temperature sensor	
Temperature	Resistance
-20°C	100 kΩ
-10°C	55 kΩ
0°C	32,7 kΩ
10°C	20 kΩ
20°C	12,5 kΩ
30°C	8 kΩ
40°C	5 κΩ

4

Manufacturer: Lancia Engine code: 838A1.000 Tuned for: R-Cat

Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02

© Autodata Limited 2004 2006.10.21. V5.500-_ /Autodata





Y11	AC compressor clutch
K143	AC compressor clutch relay
A63	AC control module
B159	AC fascia vent temperature sensor
B160	AC footwell vent temperature sensor
S153	AC refrigerant low pressure switch
S63	AC refrigerant pressure switch
S341	AC refrigerant triple pressure switch
B102	AC sunlight sensor
M112	AC/heater air direction motor
M114	AC/heater air mix flap motor
M7	AC/heater blower motor
M105	AC/heater recirculation flap motor
31	Battery -
30	Battery +
X1	Data link connector (DLC)
A35	Engine control module (ECM)
M6	Engine coolant blower motor
K12	Engine coolant blower motor relay
R46	Engine coolant blower motor resistor
B24	Engine coolant temperature (ECT) sensor
F	Fuse
FSx	Fuse satellite
K79	Ignition main circuits relay
15	Ignition switch - ignition ON
B37	In-car temperature sensor
M51	In-car temperature sensor blower
A5	Instrument panel
B61	Outside air temperature sensor



bl = blue	br = brown	el = cream	ge = yellow
gn = green	gr = grey	nf = neutral	og = orange
rs = pink	rt = red	sw = black	vi = violet
ws = white	hbl = light blue	hgn = light green	rbr = maroon
x = braided cable	y = high tension	z = non-cable connection	

© Autodata Limited 2004 2006.10.21. V5.500- /Autodata NOTE: In certain diagrams (Citroen, Peugeot & Renault), colour codes are replaced by numbers which are used to identify a particular cable and not the colour. In this instance, the cables will be numbered at each end close to the harness connector.



© Autodata Limited 2004 2006.10.21. V5.500- /Autodata

NOTE: The shaded area on the gauges denotes normal system pressures at an ambient air temperatures of 20-25°C.

• Refer to the vehicle chapter for model specific data (where available).

Diagnosis 1

Symptoms

None.

Fault

None.

Corrective action

• None.

<u>Fig. 1</u>

Normal refrigerant charge

If a normal charge indicated:

• Carry out a pressure test with the engine running.

If there is less than a normal charge indicated:

- Evacuate the system.
- Carry out a leak test and repair as necessary.
- Charge the system with the correct quantity of refrigerant.
- Carry out a pressure test with the engine running.

NOTE: This static test is only an indication of the refrigerant charge quantity and is not conclusive.



Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02 Before carrying out any tests with the engine running observe the following preparatory conditions:

- Condenser and radiator fins clean.
- Condenser/cooling fan cowlings in place and undamaged.
- Engine at normal operating temperature.
- Air conditioning switched ON.
- AC/heater blower motor switch set to maximum speed.
- AC/heater recirculation flap set to recirculation position.
- AC/heater temperature control(s) set to maximum cold position.
- Heater flap or heater valve fully closed (if applicable).
- Compressor drive belt(s) in good condition.
- Compressor magnetic clutch operating correctly.
- Pollen filter (if applicable) installed and in good condition.
- Engine running at approximately 1500 rpm.

NOTE: The shaded area on the gauges denotes normal system pressures at an ambient air temperatures of 20-25°C.

• Refer to the vehicle chapter for model specific data (where available).

Diagnosis 1

Symptoms

None.

Fault

None.

Corrective action

• None.

<u>Fig. 1</u>

Normal refrigerant charge

If a normal charge indicated:

• Carry out a pressure test with the engine running.

If there is less than a normal charge indicated:

- Evacuate the system.
- Carry out a leak test and repair as necessary.
- Charge the system with the correct quantity of refrigerant.
- Carry out a pressure test with the engine running.

NOTE: This static test is only an indication of the refrigerant charge quantity and is not conclusive.



Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02 Measuring the pressures in the high and low pressure circuits is the best way to test an air conditioning system.

- ALWAYS wear appropriate protective clothing, including gloves made of fluoroelastomer (leather or fabric gloves are not suitable when servicing any part of a refrigerant system).
- ALWAYS wear eye protection, a leak of refrigerant can result in serious blistering (frostbite) of any unprotected skin and especially the eyes.
- Identify which type of refrigerant is in the system.

NOTE: DO NOT presume that it has been charged with the correct refrigerant. The pressure-temperature relationship of other gasses will be different and may result in incorrect diagnosis.

- Connect a manifold gauge set to the low and high pressure service connectors.
- Carry out a pressure test without the engine running.

A simple but effective initial test is to check the temperature of the refrigerant system components and lines by touching them while the system is operating. With the engine at operating temperature and the air conditioning system switched ON, the touch test should reveal the following:

- A hot compressor.
- A hot high pressure refrigerant line from the compressor outlet to the condenser.
- A hot condenser on the inlet side.
- A warm condenser on the outlet side.
- A warm liquid line from the condenser to the evaporator (before the expansion valve or fixed orifice tube).
- A cold evaporator outlet line.
- A cold low pressure refrigerant line to compressor inlet.

If the results from the touch test deviate from the above list, suspect a restriction in the line or the component whose temperature is abnormal. Confirm this by carrying out a pressure test.

Engine management component testing

Control system

Engine control relay

Checking operation - Fig. 26

Technical Data		
Terminals	Condition	Resistance
30 & 87b Battery voltage disconnected		ω
30 & 87b	& 87b Battery voltage connected	
Battery + to terminal 86		
Battery - to terminal 85		

NOTE: Ensure battery voltage supply is connected correctly. Otherwise relay could be damaged.

- Ensure ignition switched OFF.
- Remove relay.
- Check resistance between relay terminals.
- Connect battery voltage supply to specified relay terminals.
- Check resistance between relay terminals.

Fuel pump relay

Checking operation - Fig. 26

Technical Data		
Terminals	Condition	Resistance
30 & 87/87b Battery voltage disconnected		
30 & 87/87b Battery voltage connected Zero		Zero
Battery + to terminal 86		
Battery - to terminal 85		

NOTE: Ensure battery voltage supply is connected correctly. Otherwise relay could be damaged.

- Ensure ignition switched OFF.
- Remove relay.
- Check resistance between relay terminals.
- Connect battery voltage supply to specified relay terminals.
- Check resistance between relay terminals.

Camshaft position (CMP) actuator relay

Checking operation - Fig. 27

Technical Data		
Terminals	Condition	Resistance
30 & 87 Battery voltage disconnected 🗠		ω
30 & 87	0 & 87 Battery voltage connected Zero	
Battery + to terminal 86		
Battery - to terminal 85		

NOTE: Ensure battery voltage supply is connected correctly. Otherwise relay could be damaged.

- Ensure ignition switched OFF.
- Remove relay.
- Check resistance between relay terminals.
- Connect battery voltage supply to specified relay terminals.
- Check resistance between relay terminals.

Intake manifold air control relay - 2,4

Checking operation - Fig. 28

Technical Data		
Terminals	Condition	Resistance
30 & 87b Battery voltage disconnected		ω
30 & 87b	30 & 87b Battery voltage connected	
Battery + to terminal 86		
Battery - to terminal 85		

NOTE: Ensure battery voltage supply is connected correctly. Otherwise relay could be damaged.

- Ensure ignition switched OFF.
- Remove relay.
- Check resistance between relay terminals.
- Connect battery voltage supply to specified relay terminals.
- Check resistance between relay terminals.

Engine control module (ECM)

NOTE: Due to small size of ECM harness multi-plug pins it is advisable to use a breakout box.

Checking supply voltage - Fig. 29

Technical Data		
Terminals Condition Voltage		Voltage
18 & earth	Ignition OFF	Battery voltage
27 & earth Ignition ON		Battery voltage
37 & earth	Ignition ON	Battery voltage

- Ensure ignition switched OFF.
- Disconnect ECM multi-plug.

Manufacturer: Lancia	Model: Kappa 2,0
Engine code: 838A1.000	Output: 107 (145) 6100
Tuned for: R-Cat	Vear: 1994-02

- Connect breakout box to ECM harness multi-plug.
- Check voltage between breakout box terminal and earth.
- Switch ignition ON.
- Check voltage between breakout box terminals and earth.
- If voltage not as specified: Check wiring, fuses and engine control relay.

Checking earth connection - Fig. 29

Technical Data		
Terminals	Resistance	
2 & earth	Zero	
14 & earth	Zero	
19 & earth	Zero	
24 & earth	Zero	
42 & earth	Zero	

- Ensure ignition switched OFF.
- Disconnect ECM multi-plug.
- Connect breakout box to ECM harness multi-plug.
- Check resistance between breakout box terminals and earth.
- If resistance not as specified: Check wiring.

Camshaft position (CMP) actuator

Checking earth connection - Fig. 30

Technical Data	
Terminals Resistance	
1 & earth	Zero

- Ensure ignition switched OFF.
- Disconnect CMP actuator multi-plug.
- Check resistance between harness multi-plug terminal and earth.
- If resistance not as specified: Check wiring.



Emission control system

Heated oxygen sensor (HO2S)

Checking signal - Fig. 23

Technical Data	
Terminals	Voltage
1 & 2	0-0,9 V (fluctuating)

- Ensure ignition switched OFF.
- Do not disconnect multi-plug. Access HO2S multi-plug terminals.
- Start engine.
- Allow to idle.
- Ensure engine is at normal operating temperature.
- Check voltage between multi-plug terminals.

Oxygen sensor heater

Checking resistance - Fig. 23

Technical Data		
Terminals	Resistance	
3 & 4	3,5 Ω approx.	

- Ensure ignition switched OFF.
- Disconnect HO2S multi-plug.
- Check resistance between HO2S terminals.

Checking supply voltage - Fig. 24

Technical Data	
Terminals	Voltage
3 & 4	Battery voltage

NOTE: Disconnect injector multi-plugs before cranking tests, to avoid damage to catalytic converter(s).

- Ensure ignition switched OFF.
- Disconnect HO2S multi-plug.
- Briefly crank engine.
- Check voltage between harness multi-plug terminals.
- If voltage not as specified: Check wiring, fuses and fuel pump relay.

Evaporative emission (EVAP) canister purge valve

Checking supply voltage - Fig. 25

Manufacturer: Lancia	
Engine code: 838A1.000	
Tuned for: R-Cat	

Technical Data	
Terminals	Voltage
1 & earth	Battery voltage

- Ensure ignition switched OFF.Disconnect EVAP valve multi-plug.
- Switch ignition ON. •
- Check voltage between harness multi-plug terminal and earth.



© Autodata Limited 2004 2006.10.21. V5.500-/Autodata

Engine sensors

Engine coolant temperature (ECT) sensor

Checking resistance - Fig. 19

Technical Data		
Temperature	Resistance	
20°C	2400 Ω approx.	
40°C	1100 Ω approx.	
60°C	510 Ω approx.	
80°C	300 Ω approx.	
100°C	180 Ω approx.	

- Ensure ignition switched OFF.
- Disconnect ECT sensor multi-plug.
- Relieve residual pressure in cooling system.
- Remove ECT sensor from engine.
- Immerse ECT sensor probe in coolant of specified temperature.
- Check resistance between ECT sensor terminals.
- ECT sensor may be checked in situ if engine temperature and resistance readings are compared.

Crankshaft position (CKP) sensor

NOTE: The CKP sensor also provides the RPM signal.

Checking resistance - Fig. 20

Technical Data	
Terminals	Resistance
1 & 2	774-946 Ω

- Ensure ignition switched OFF.
- Disconnect CKP sensor multi-plug.
- Check resistance between CKP sensor terminals.

Camshaft position (CMP) sensor

Checking - Fig. 21

Technical Data	
Terminals	LED
2 & 3	Flashing

- Ensure ignition switched OFF.
- Do not disconnect multi-plug. Access CMP sensor multi-plug terminals.

Manufacturer: Lancia	Model: Kappa 2,0	© Autodata Limited 2004
Engine code: 838A1.000	Output: 107 (145) 6100	2006.10.21.
Tuned for: R-Cat	Year: 1994-02	V5.500- /Autodata
- Connect LED test lamp between multi-plug terminals.
- Briefly crank engine.
- Check that LED flashes.

Knock sensors (KS)

Checking earth connection - Fig. 22

Technical Data		
Terminals	Resistance	
3 & earth	Zero	

- Ensure ignition switched OFF.
- Disconnect KS multi-plug.
- Check resistance between harness multi-plug terminal and earth.
- Repeat test for other KS.



Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02

Fuel system

Fuel pressure

Checking - Fig. 2 & Fig. 3

Technical Data		
Pressure	Condition	Value
System	Taps A and B open	3,0 bar
Pump delivery	Tap A closed	7,5 bar max.

- Ensure ignition switched OFF.
- Connect pressure gauge between fuel supply pipe and fuel rail. Gauge taps open Fig. 2 [A] & [B].
- Remove fuel pump relay.
- Bridge fuel pump relay base terminals 30 and 87 with a switched lead Fig. 3.
- Operate switch to run fuel pump.
- Compare system pressure indicated with that specified.
- Briefly close gauge tap Fig. 2 [A] between pressure gauge and fuel rail.
- Compare pump pressure indicated with that specified.

Fuel delivery rate

Checking - Fig. 3 & Fig. 4

Technical Data	
Delivery rate	2 litres/60 secs.

- Ensure ignition switched OFF.
- Disconnect fuel supply pipe from fuel rail.
- Insert end of pipe into measuring flask Fig. 4.
- Remove fuel pump relay.
- Bridge fuel pump relay base terminals 30 and 87 with a switched lead Fig. 3.
- Operate switch to run fuel pump.
- Compare delivery rate indicated with that specified.

Injectors

Injector checking and cleaning: Refer to General Test Procedures.

Checking resistance - Fig. 5

Technical Data		
Resistance	16 Ω approx.	

- Ensure ignition switched OFF.
- Disconnect injector multi-plugs.
- Check resistance between injector terminals.

Manufacturer: Lancia	Model: Kappa 2,0	© Autodata Limited 2004
Engine code: 838A1.000	Output: 107 (145) 6100	2006.10.21.
Tuned for: R-Cat	Year: 1994-02	V5.500- /Autodata

Technical Data		
Terminals	Voltage	
1 & earth	Battery voltage	

- Ensure ignition switched OFF.
- Disconnect injector multi-plugs.
- Switch ignition ON.
- Check voltage between harness multi-plug terminal and earth.
- Repeat test for each injector.

Fuel pump

Checking operation - Fig. 3

- Switch ignition ON.
- Fuel pump should run for approximately 1 second.
- If pump does not run: Switch ignition OFF.
- Remove fuel pump relay.
- Bridge fuel pump relay base terminals 30 and 87 with a switched lead.
- Fuel pump should run continuously when switch is operated.
- If pump does not run: Check wiring, fuses and inertia fuel shut-off (IFS) switch.





Ignition system

High-tension spark

Checking - Fig. 14

NOTE: Disconnect injector multi-plugs before cranking tests, to avoid damage to catalytic converter(s).

- Ensure ignition switched OFF.
- Remove upper engine cover.
- Disconnect ignition coil from one spark plug.
- Connect test spark plug to ignition coil.
- Using insulated pliers, hold test spark plug 6 mm from suitable earth.
- Briefly crank engine.
- Check for strong blue spark.
- Repeat test for each ignition coil.
- If no spark is visible: Carry out high-tension circuit component checks. Refer to General Test Procedures.

Ignition timing & firing order

Checking and adjustment - Fig. 15

Technical Data		
Normal ignition timing	Not specified	
Firing order	1-2-4-5-3	

- Ignition timing electronically controlled.
- No adjustment possible.
- If ignition timing not as specified: Carry out component and electrical tests.

Ignition coils

Checking supply voltage - Fig. 16

Technical Data		
Terminals	Voltage	
3 & earth	Battery voltage	

- Ensure ignition switched OFF.
- Remove upper engine cover.
- Disconnect ignition coil multi-plug.
- Switch ignition ON.
- Check voltage between harness multi-plug terminal and earth.
- Repeat test for each ignition coil.
- If voltage not as specified: Check wiring and fuse.

Checking primary resistance - Fig. 17

Technical Data		
Terminals	Resistance	
1 & 3	0,4 Ω approx.	

- Ensure ignition switched OFF.
- Remove upper engine cover.
- Disconnect ignition coil multi-plug.
- Check resistance between ignition coil terminals.
- Repeat test for each ignition coil.

Checking secondary resistance - Fig. 18

Technical Data		
Terminals	Resistance	
2 & HT	8500 Ω approx.	

- Ensure ignition switched OFF.
- Remove upper engine cover.
- Disconnect ignition coil multi-plug.
- Remove ignition coil assembly.
- Check resistance between ignition coil terminal and high-tension connection.
- Repeat test for each ignition coil.



Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02



Intake system

Throttle position (TP) sensor

Checking - MT - Fig. 7

Technical Data		
Terminals	Condition	Voltage
1 & 2	Ignition ON	5 V approx.
3 & earth	Throttle closed	0,5 V approx.

- Ensure ignition switched OFF.
- Disconnect TP sensor multi-plug.
- Switch ignition ON.
- Check voltage between harness multi-plug terminals.
- Switch ignition OFF.
- Reconnect multi-plug.
- Access TP sensor multi-plug terminals.
- Start engine.
- Allow to idle.
- Check voltage between harness multi-plug terminal and earth.

Checking - AT - Fig. 8

Technical Data		
Multi-plug A		
Terminals	Condition	Voltage
1 & 2	Ignition ON	5 V approx.
3 & earth	Throttle closed	0,5 V approx.
Multi-plug B		
TerminalsVoltage		
2 & 3		5 V approx.

- Ensure ignition switched OFF.
- Disconnect TP sensor multi-plug Fig. 8 [A].
- Switch ignition ON.
- Check voltage between harness multi-plug terminals.
- Switch ignition OFF.
- Reconnect multi-plug.
- Access TP sensor multi-plug terminals.
- Start engine.
- Allow to idle.
- Check voltage between harness multi-plug terminal and earth.
- Ensure ignition switched OFF.
- Disconnect TP sensor multi-plug Fig. 8 [B].
- Switch ignition ON.
- Check voltage between harness multi-plug terminals.

Mass air flow (MAF) sensor

Manufacturer: Lancia	Model: Kappa 2,0	© Autodata Limited 2004
Engine code: 838A1.000	Output: 107 (145) 6100	2006.10.21.
Tuned for: R-Cat	Year: 1994-02	V5.500- /Autodata

Technical Data	
Terminals	Voltage
1 & 3	Battery voltage

- Ensure ignition switched OFF.
- Disconnect MAF sensor multi-plug.
- Switch ignition ON.
- Check voltage between harness multi-plug terminals.

Intake air temperature (IAT) sensor

Checking supply voltage - Fig. 10

Technical Data		
Terminals	Voltage	
1 & earth	5 V approx.	

- Ensure ignition switched OFF.
- Disconnect IAT sensor multi-plug.
- Switch ignition ON.
- Check voltage between harness multi-plug terminal and earth.

Idle speed control (ISC) actuator

Checking supply voltage - Fig. 11

Technical Data		
Terminals	Voltage	
2 & earth	Battery voltage	

- Ensure ignition switched OFF.
- Disconnect ISC actuator multi-plug.
- Switch ignition ON.
- Check voltage between harness multi-plug terminal and earth.

Intake manifold air control solenoid - 2,4

Checking operation - Fig. 12

Technical Data		
Terminals	Engine speed	Voltage
1 & earth	Engine idling	Battery voltage
1 & earth	4600 rpm min.	0 V

Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02

- Ensure ignition switched OFF.
- Disconnect intake manifold air control solenoid multi-plug.
- Start engine.
- Allow to idle.
- Check voltage between harness multi-plug terminal and earth.
- Increase engine speed to over 4600 rpm.
- Check voltage between harness multi-plug terminal and earth.

Checking earth connection - Fig. 13

Technical Data	
Terminals	Resistance
2 & earth	Zero

- Ensure ignition switched OFF.
- Disconnect intake manifold air control solenoid multi-plug.
- Check resistance between harness multi-plug terminal and earth.





Telephone: Fax: VAT Registration No.:

Service adjustments

Preparatory conditions

- Engine at normal operating temperature.
- Ignition system in good condition.
- Air filter installed and in good condition.
- All auxiliary equipment switched OFF.
- Front wheels in straight-ahead position.

Idle speed

Adjustment

Technical Data		
All models	850±50 rpm	

- Idle speed electronically controlled.
- No adjustment possible.
- If idle speed not as specified: Check for air leaks in intake system. Carry out component and electrical tests.

CO level

Adjustment

Technical Data		
All models	0,4-1% - at sample pipe	
All models	0,35% max at tail pipe	

- CO level electronically controlled.
- No adjustment possible.
- If CO level not as specified: Check for air leaks in intake and exhaust systems. Carry out component and electrical tests.

Throttle initial position

Adjustment

- Throttle initial position set by manufacturer.
- No adjustment possible.

Manufacturer: Lancia	Model: Kappa 2,0
Engine code: 838A1.000	Output: 107 (145) 6100
Tuned for: R-Cat	Year: 1994-02

Accelerator cable adjustment - Fig. 1

- Adjust accelerator cable by moving clip <u>Fig. 1</u> [4] in various bush splines <u>Fig. 1</u> [3].
 Position clip so that the end of the cable <u>Fig. 1</u> [1] freely enters the slot <u>Fig. 1</u> [2].
- Check idle speed.



Vehicle sensors

Inertia fuel shut-off (IFS) switch

Checking - Fig. 31

Technical Data		
Terminals	Condition	Resistance
C & NC	Button released	ω
C & NC	Button depressed	Zero

- Ensure ignition switched OFF.
- Disconnect IFS switch multi-plug.
- Remove IFS switch.
- Invert IFS switch.
- Check resistance between IFS switch terminals.
- Depress reset button while checking resistance.
- Refit IFS switch.
- Depress reset button.
- Check resistance between IFS switch terminals.



Wiring diagram

Telephone: Fax: VAT Registration No.:

K143	AC compressor clutch relay
S341	AC refrigerant triple pressure switch
31	Battery -
30	Battery +
Y81	Camshaft position (CMP) actuator
K153	Camshaft position (CMP) actuator relay
B132	Camshaft position (CMP) sensor
B54	Crankshaft position (CKP) sensor
X1	Data link connector (DLC)
A161	Digital multifunction display
A35	Engine control module (ECM)
K46	Engine control relay
B24	Engine coolant temperature (ECT) sensor
H63	Engine malfunction indicator lamp (MIL)
B75	Engine speed (RPM) sensor
Y104	Evaporative emission (EVAP) canister purge valve
M12	Fuel pump
K20	Fuel pump relay
F	Fuse
B72	Heated oxygen sensor (HO2S)
Y56	Idle speed control (ISC) actuator
T1	Ignition coil
15	Ignition switch - ignition ON
A162	Immobilizer control module
S39	Inertia fuel shut-off (IFS) switch
Y3	Injector
B25	Intake air temperature (IAT) sensor
K241	Intake manifold air control relay
Y102	Intake manifold air control solenoid - 2,4
B69	Knock sensor (KS)
B30	Mass air flow (MAF) sensor
P9	Speedometer
P7	Tachometer
B147	Throttle position (TP) sensor
A57	Transmission control module (TCM)

	⊐2 □1
— — 37 — 36 — 35 — 34 — 33 — 32 — 31 — 30 — 29 — 28 — 27 — 26 — 25 — 24 — 23 — 22 — 2	21 - 20
	39
	12

AD72618

bl = blue	br = brown	el = cream	ge = yellow
gn = green	gr = grey	nf = neutral	og = orange
rs = pink	rt = red	sw = black	vi = violet
ws = white	hbl = light blue	hgn = light green	rbr = maroon
x = braided cable	y = high tension	z = non-cable connection	

NOTE: In certain diagrams (Citroen, Peugeot & Renault), colour codes are replaced by numbers which are used to identify a particular cable and not the colour. In this instance, the cables will be numbered at each end close to the harness connector.

Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02 © Autodata Limited 2004 2006.11.12. V5.500- /Autodata



Manufacturer: Lancia Engine code: 838A1.000 Tuned for: R-Cat

Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02 © Autodata Limited 2004 2006.11.12. V5.500- /Autodata



Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02 © Autodata Limited 2004 2006.11.12. V5.500- /Autodata

All auto general system layout

1	Fuel tank
2	Fuel pump
3	Fuel filter
4	Fuel pressure regulator
5	Injector
6	Engine control module (ECM)
7	Mass air flow (MAF) sensor
8	Throttle position (TP) sensor
9	Engine coolant temperature (ECT) sensor
10	Intake air temperature (IAT) sensor
11	Idle air control (IAC) valve
12	Crankshaft position (CKP) sensor
13	Heated oxygen sensor (HO2S)
14	Camshaft position (CMP) sensor
15	Evaporative emission (EVAP) canister purge valve
16	Knock sensor (KS)
17	Evaporative emission (EVAP) canister



Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02 © Autodata Limited 2004 2006.10.21. V5.500------ /Autodata

All auto component descriptions

Engine control module (ECM)

Operation

Electrical signals from the fuel and ignition system sensors are received and processed by the electronic circuits in the ECM.

Functions

- Outputs from the ECM control the following:
- Injectors by controlling the length of time each injector valve remains open.
- Fuel pump relay.
- Idle speed control system.
- Evaporative emissions system.
- Exhaust gas recirculation.
- Ignition timing and knock sensing.
- Self-diagnosis of faults, indicated by an LED on the ECM <u>Fig. 1</u> or a MIL or check engine warning light on the instrument panel <u>Fig. 2</u> (some models).
- Emergency `limp-home' programme, which substitutes an average value for any failed sensor enabling the vehicle to be driven to a workshop for correction.



Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02 © Autodata Limited 2004 2006.10.21. V5.500- /Autodata

Engine coolant temperature (ECT) sensor - Fig. 15

Function

The ECT sensor probe is immersed in the engine coolant and changes its resistance in proportion to temperature changes.

- 1. Electrical connections
- 2. Housing
- 3. NTC resistor

Operation

• In most cases the sensor incorporates a negative temperature coefficient (NTC) resistor, which decreases in resistance as the coolant temperature rises.



Engine speed and position sensors

General

Engine speed (RPM), crankshaft position (CKP) and camshaft position (CMP) sensors are of two basic types, inductive or Hall effect. Inductive sensors may be mounted on the camshaft housing, crankcase or in the distributor, but Hall effect sensors are usually mounted in the distributor.

Function - inductive - Fig. 16

These sensors contain a permanent magnet partly enclosed in a soft iron core and partly in a field winding.

The tip of the sensor is positioned close to the flywheel ring gear, a separate toothed trigger wheel, or a toothed wheel attached to the crankshaft pulley.

In certain applications the sensor(s) are incorporated in the ignition distributor or in a separate unit driven by the camshaft.

- 1. Soft iron core
- 2. Field winding
- 3. Permanent magnet
- 4. Flywheel ring gear
- 5. TDC pin

Operation - inductive

• As the teeth or pins of the trigger wheel pass the sensor the magnetic field changes, inducing a voltage signal which is sent to the ECM.

Function - Hall effect - Fig. 17

The Hall effect generator consists of a semi-conductor material, through which a current flows, enclosed by a magnetic field at right angles to the current flow.

- 1. Trigger vane
- 2. Hall generator
- 3. Distributor shaft

Operation - Hall effect

- When the ignition is switched on, a small voltage is generated across the semi-conductor (the `Hall' voltage).
- A soft iron trigger vane attached to the distributor shaft is positioned to pass between the poles of the magnet.
- This diverts the magnetic field and has the effect of reducing the Hall voltage to practically zero Fig. 18.
- As the vane passes the sensor, the Hall trigger is switched `on' when it is opposite a gap [1] and [2] and `off' when there is no gap [3] and [4].

Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02



Evaporative emission (EVAP) canister purge valve - Fig. 21

Function

A reduction in pollution of the atmosphere can be achieved by fitting an evaporative control system. Fuel vapour from the tank is stored in a carbon filter when the engine is stopped.

- 1. Vapour inlet
- 2. Non-return valve
- 3. Solenoid
- 4. Vapour outlet

Operation

• When the engine approaches normal operating temperature, the solenoid valve on the carbon filter opens, allowing the fuel vapour to be drawn out of the carbon filter into the inlet manifold.



Exhaust gas recirculation (EGR) valve - Fig. 22

Function

To reduce the oxides of nitrogen emitted by the exhaust, a proportion of the exhaust gas can be returned to the inlet manifold when the engine is on full load.

Operation

• The exhaust gas recirculation valve is operated mechanically or by vacuum to control the flow of exhaust gas into the inlet manifold.



Fuel pressure regulator - Fig. 3

Function

Maintains an even supply pressure to the injectors. Single point systems - incorporated in the throttle body. Multi-point systems - fitted downstream of the injectors.

- 1. Diaphragm
- 2. Spring
- 3. Vacuum connection
- 4. Pressurised fuel inlet
- 5. Fuel return

Operation

- The regulator body is divided into two chambers by a diaphragm.
- The upper (spring) chamber is connected, by vacuum hose, to the inlet manifold downstream of the throttle valve.
- The lower chamber receives pressurised fuel.
- When the fuel supply pressure exceeds the pre-set regulator pressure the diaphragm valve opens and allows the excess
 fuel to flow back to the tank.
- The vacuum exerted on the upper chamber modifies the spring pressure and ensures that the pressure difference between the fuel chamber and the inlet manifold is constant.



Function

Sometimes referred to as a Lambda sensor.

Fitted in the exhaust system upstream of the catalytic converter, where it can measure the exhaust gases evenly from all cylinders.

Where necessary (e.g. on a V-engine with a dual exhaust system) two sensors may be fitted.

- 1. Protective cap with slots
- 2. Heating element
- 3. Sensor element
- 4. Electrical connections

Operation

- The sensor reacts to the oxygen content of the exhaust gasses and uses the voltage generated (200-800 mV) to signal the ECM to modify the mixture (air/fuel) ratio.
- If the oxygen content is at the ideal value (Lambda = 1), the sensor signal voltage will be 500 mV.
- If the mixture is too weak the voltage will be 200-450 mV (Lambda 1,10).
- If it is too rich the voltage will be 550-800 mV (Lambda 0,96).
- In practice the oxygen sensor continually signals the ECM to alter the fuelling by a small amount, to maintain the mixture strength as near as possible (± 1%) to the theoretical ideal (stoichiometric) ratio of 14.7 parts air to 1 part fuel, which is the optimum for the catalytic converter to work efficiently.
- The sensor will not begin to operate until it has reached 482-572°C, but most now incorporate a heater element, which enables the closed loop system to come into operation soon after a cold start.



Idle air control (IAC) valve - Fig. 10

Function

The auxiliary air valve allows air to by-pass the throttle valve when the engine is cold, to increase idle speed during the warm-up period.

- 1. Bi-metal strip
- 2. Heating element
- 3. Valve plate
- 4. By-pass air

Operation

- The valve is mounted on the engine in a position where it is in direct contact with engine temperature.
- The valve incorporates an electrically heated bi-metal strip which determines the cut-off point as the engine reaches normal operating temperature.



Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02

Function

The rotary idle air control actuator allows air to by-pass the throttle valve to govern the idle speed, under all conditions.

- 1. Rotary valve
- 2. Air inlet
- 3. Air outlet
- 4. Motor

Operation

- The device consists of a rotary valve, in the by-pass air way, mounted on the shaft of a special electric motor.
- The motor has two sets of armature windings and is limited to an angular movement of 90°.
- The ECM supplies an alternating voltage to the two windings, depending on signals from sensors such as engine RPM and coolant temperature.
- The alternating voltages exert opposing forces on the armature resulting in the valve taking up a position corresponding to the voltage ratio.



Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02

Idle air control (IAC) valve - solenoid type - Fig. 11

Function

The solenoid idle air control actuator allows air to by-pass the throttle valve to govern the idle speed, under all conditions.

- 1. Solenoid
- 2. Air valve
- 3. Air outlet
- 4. Air inlet

Operation

- It is controlled directly by the ECM, which interprets signals from sensors such as RPM and coolant temperature to maintain the idle speed at a pre-determined level.
- The solenoid acts against a spring, either with a rotary or linear action.



Idle air control (IAC) valve - stepper motor type - Fig. 13

Function

The idle air control stepper motor positions an air by-pass valve mounted in the throttle body and is used mainly with single point injection systems.

Operation

- The stepper motor has four control windings, enabling it to be precisely positioned in either direction.
- It is controlled by the ECM and changes idle speed irrespective of throttle valve position.
- As an additional function the stepper motor may open the throttle valve mechanically to increase idle speed.



Injector Fig. 4 , Fig. 5 & Fig. 6

Function

Single point systems - the injector sprays fuel into the throttle body. Multi-point systems - the injectors spray fuel into the inlet manifold.

Operation

- Electronically controlled injectors are opened by an integral solenoid single point <u>Fig. 4</u>, multi-point <u>Fig. 5</u>, which responds to signals from the ECM.
- The fuel is injected in a fine spray, in order to ensure thorough mixing with the intake air.
- External resistors may be provided for each injector.
- Injectors for mechanical systems (KE-Jetronic and derivatives) have a spring loaded valve operated by fuel pressure <u>Fig.</u>
 <u>6</u>.

Fig. 4

- 1. Solenoid
- 2. Fuel inlet
- 3. Fuel return
- 4. Needle valve

<u>Fig. 5</u>

- 1. Solenoid
- 2. Fuel inlet
- 3. Needle valve

Fig. 6

- 1. Fuel inlet
- 2. Filter gauze
- 3. Needle valve open
- 4. Needle valve closed



Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02 © Autodata Limited 2004 2006.10.21. V5.500- /Autodata


Manifold absolute pressure (MAP) sensor Fig. 9

• Connected by vacuum hose to the engine inlet manifold. Usually located in the engine bay, or built into the ECM casing.

Operation

- The sensor consists of a diaphragm and piezo-electric circuit which varies the resistance in proportion to the pressure in the manifold.
- The sensor has a 5 volt supply and sends a signal voltage to the ECM which is proportional to the manifold pressure.
- The ECM uses the voltage signals from the MAP sensor to adjust the signals to the injectors.
- A. Full load
- B. Idling
- 1. Vacuum connector
- 2. Piezo-electric crystal
- 3. Electrical connections



Mass air flow (MAF) sensor - hot-film type

Function

Similar to the hot-wire type, but with the measuring element incorporated in a ceramic plate. This arrangement obviates the need for a `burn-off' facility.

Function

The MAF sensor has no moving parts and provides very little restriction to the air flow. It is fitted between the air filter and throttle body.

Operation

- The MAF sensor consists of a venturi with a resistance wire exposed to the incoming air.
- An air temperature sensor or compensating wire is also exposed to the air flow.
- The ECM senses changes in temperature caused by variations in air mass passing through the sensor body and increases or decreases the current flowing through the measuring wire.
- An internal electronic circuit maintains the approximate temperature of the measuring wire at a constant 120°C, above the intake air temperature.
- As the mass of air passing the wire increases, so the current required to maintain the temperature also increases.
- This increase in current is sensed by the ECM.
- This is the primary signal, used in conjunction with signals from the other system sensors, for determining the correct amount of fuel to be supplied to the engine.
- A `burn-off' facility operates when the system is switched off, to remove dirt from the filament.
- 1. Protective mesh
- 2. Resistance wire
- 3. Intake air
- 4. Compensating wire



Throttle position (TP) sensor - Fig. 20

Function

Used as an alternative to a throttle switch assembly, the throttle position sensor is a variable resistance (potentiometer) connected to the throttle valve shaft.

In the case of single point injection systems, load sensing may be by means of this sensor, avoiding the need for a MAP sensor.

- 1. Throttle butterfly shaft
- 2. Wiper arm
- 3. Resistance tracks

Operation

• It is supplied with a reference voltage and the output signal voltage is used by the ECM to interpret the exact throttle position.



Throttle position (TP) switch - Fig. 19

Function

The throttle position switch assembly is mounted on the throttle body and attached to the throttle valve shaft. It incorporates an idle switch and a wide open throttle switch.

- 1. Full throttle switch
- 2. Throttle butterfly shaft
- 3. Idle switch

Operation

• The idle switch governs fuel shut-off on the overrun and the wide open throttle switch signals the ECM to provide full load enrichment.



Volume air flow (VAF) sensor - Fig. 7

Function

The VAF sensor is fitted between the air filter and throttle body. It measures the amount of air drawn into the engine by the deflection of a flap inside the sensor.

- 1. Sensor flap
- 2. Damper flap
- 3. Potentiometer
- 4. Intake air temperature sensor

Operation

- The flap is connected to a potentiometer which sends a signal voltage to the ECM.
- This is the primary signal which, in conjunction with those from the other system sensors, is used to determine the fuelling requirements of the engine.
- In many applications the intake air temperature sensor is incorporated in this type of air flow sensor



All auto general test procedures

HT Circuit tests

General procedures

NOTE: The following checks cover all the HT components of a `conventional' ignition system.

- Distributorless systems have HT leads for each plug, but no cap or rotor arm.
- Direct ignition systems dispense with the HT leads as well, but have individual coils for each plug, which may be tested for insulation breakdown.
- Use a high-voltage capacity tester of approximately 500V to test insulation of HT components.
- Ohmmeter can be used for testing component insulation, but will not be as effective.
- Components should be observed for signs of `tracking' during testing.

Checking HT lead resistance - Fig. 1

- Connect ohmmeter between ends of HT leads.
- Measure resistance of each HT lead.
- Check resistance is 25000-30000 ohms, unless otherwise specified.
- If leads show excessive resistance, or are mechanically damaged in any way, install replacement set.

Checking distributor cap insulation - Fig. 2

- Connect a high-voltage capacity tester between each HT terminal in turn and cap casing.
- Tester should indicate open circuit.
- If there is any sign of insulation breaking down, install replacement distributor cap.

Checking rotor arm insulation - Fig. 3

- Connect a high-voltage capacity tester between rotor arm HT terminal and rotor arm case.
- Tester should indicate open circuit.
- Alternatively, remove distributor cap and hold coil HT lead, using insulated pliers, approximately 1/4 in. above rotor arm contact.
- Crank engine with starter.
- If rotor arm insulation is faulty spark will jump across gap between HT lead and rotor arm and ground on distributor shaft.
- If there is any sign of insulation breaking down, install replacement rotor arm.

Checking ignition coil insulation - Fig. 4 & Fig. 5

- Connect a high-voltage capacity tester between coil tower HT terminal and coil casing.
- Measure resistance of the insulation.
- Tester should indicate open circuit.
- If there is any sign of insulation breaking down, install a replacement ignition coil.



Manufacturer: Lancia Engine code: 838A1.000 Tuned for: R-Cat

Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02

Injector checking and cleaning

- Apart from the basic test of checking the electrical resistance of the solenoid coil, injectors should ideally be removed from the engine and checked and cleaned using dedicated injector test and cleaning equipment <u>Fig. 1</u>.
- The most satisfactory method of restoring the efficiency of fouled injectors is to have them ultrasonically cleaned.
- Several machines are available for this operation. These are capable of cleaning the interior of a set of injectors, using ultrasonics, in just a few minutes, followed by simultaneous spray testing of the complete set for comparative purposes.
- At the same time the filter baskets and pintle caps should be changed.



General procedures

- All electronically controlled intermittent injection systems operate by varying the opening time of the injections to match the quantity of fuel supplied with the engine operating conditions.
- The duration of the electrical impulses from the control unit is measured in milli-seconds (ms) and typically ranges from 1 to 14. The oscilloscope on most engine testers can be used to display the injector pulse, enabling the duration to be measured.
- Typical oscilloscope traces are shown in Fig. 2 and Fig. 3.
- It is therefore possible to check that the control unit is operating correctly by observing the changes in injector opening times during various engine operating conditions.
- Pulse duration during cranking and at idle speed will be higher than at low engine speeds, but will increase as the engine speed rises, up to a maximum at full throttle.
- This effect will be particularly evident if the throttle is 'blipped'.
- The other variable is the pulse period.
- The pulse period is the time between a particular injector opening and the next opening of the same injector. Normally the pulse period will be once per crankshaft revolution. 50% of the fuel required for one firing stroke of the engine is injected at each injector valve opening.
- The relationship between pulse period and pulse duration, for an engine with a speed range from 600-6000 rpm, is diagrammatically shown in Fig. 4 and Fig. 5.
- When the engine is idling at 600 rpm this is equivalent to 10 revs per second, therefore the crankshaft rotates once every tenth of a second, equivalent to 100 milli-seconds this is the pulse period.
- At 6000 rpm, equivalent to 100 revs per second, the crankshaft rotates 10 times per 100 milli-seconds and therefore the injectors open ten times during this period.
- This means that if the injector dwell period reaches 10 ms, the injector valves are open continuously.
- The dwell meter may also be used to indicate changes in the opening period of the injectors. Injection dwell provides a precise means of checking the operation of the ECM and its associated sensors.
- The reading indicates the percentage time that the injector remains open and delivers fuel. Some dwell meters and oscilloscopes have a scale calibrated in degrees, the reading may be converted to % dwell using the following formula:

 $D\% = D^{\circ} \times C \times 100/360$

Where D% = Dwell period %

C = No. of cylinders

D° = Dwell angle in degrees

Test procedure - injector pulse (dwell)

- Using a thin probe, connect scope test lead to one terminal of injector and second test lead to earth.
- Crank the engine and check either scope for trace or dwell meter for reading.
- If reading is obtained start engine and observe trace at idle speed. Open throttle rapidly to increase engine speed to around 3000 rpm.
- The measured pulse duration should increase during acceleration and then stabilise at a reading equal to or slightly below the idle speed value.
- Close the throttle rapidly and the trace should become a straight line with no pulse indicating that injection has been cutoff (for systems fitted with overrun injection cut-off).
- When the engine is started from cold the quantity of fuel required is increased and therefore the pulse duration or dwell will be greater.
- During warm-up the injection period should progressively decrease until the engine reaches normal operating temperature.
- Some systems, without a cold start injector, give additional injector pulses during the cold start, which may be seen as long and short pulses on the scope.
- Additional information may also be displayed, such as the TDC or reference sensor signal and a series of smaller pulses, which hold the injector open after the initial negative pulse.
- A sharp positive voltage spike will be displayed as the injector closes.

Idle speed	2,2-2,4 ms	
2000-3000 rpm	1,5-2,2 ms	
Full throttle	8,2-8,4 ms	

Volume air flow sensor (VAF)

- The oscilloscope may also be used to check the air flow sensor voltage.
- Connect the low voltage test lead of the oscilloscope to the potentiometer terminal (No.7 on Bosch LE-Jetronic) and make the earth connection to the engine. Manually operate the sensor flap and observe the oscilloscope trace, checking for hash or irregular voltage readings as the flap is moved <u>Fig. 6</u>.
- Some systems are fitted with a stepper motor which operates an idle air control valve. This enables small adjustments to be made to the idle speed in reaction to variations of operating temperature and load.
- The stepper motor responds to an oscillating voltage signal from the ECM.
- This voltage can be checked by connecting the low voltage test lead to each of the four stepper motor leads in turn.
- By turning the ignition on and off an oscillating voltage trace between 0 and 12 volts should be observed Fig. 7.
- If no signal is obtained, repeat the test at the relevant terminals of the ECM multi-plug.





Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02 © Autodata Limited 2004 2006.10.21. V5.500- /Autodata

All auto safety precautions

Air bags (Supplementary Restraint System - SRS)

Many of the models covered by this manual are fitted with air bags as standard equipment. When working on a vehicle fitted with such a system, extreme caution must be taken to avoid accidental firing of the air bag, which could result in personal injury.

Unauthorised repairs to the system could render it inoperative, or cause it to inflate accidentally.

NOTE: All related wiring is encased in a yellow outer covering.

When the engine is started the AIR BAG warning lamp should go out after approximately 5-10 seconds, if not this indicates a fault in the system and the car should be taken to a new car dealer for the make of vehicle, for the fault to be corrected before any other work is carried out.

- NEVER attempt to test the system using a multi-meter.
- NEVER tamper with or disconnect the air bag wiring harness.
- NEVER make extra connections to any part of the system wiring harness or terminals.
- ALWAYS ensure that the air bag wiring harness has not been trapped or damaged in any way when working on adjacent components or systems.

Electrical

CAUTION: To prevent engine starting and to avoid damaging catalytic converter, disconnect fuel injector valve multi-plug before cranking tests.

- ALWAYS ensure that the battery is properly connected before attempting to start the engine.
- DO NOT attempt to start the engine using a source in excess of 12 volts, such as a fast charger (16 volts) or by connecting two batteries in series (24 volts). ALWAYS disconnect the battery before charging it.
- DO NOT disconnect the battery while the engine is running.
- DO NOT connect the battery with reverse polarity.
- DO NOT disconnect or touch the HT leads when the engine is being cranked or when it is running.
- DO NOT connect or disconnect the electronic control module (ECM), or any other component of the fuel injection system while the ignition is switched ON.
- DO NOT disconnect ECM Multi-plug within 30 seconds of switching ignition OFF.
- DO NOT connect or disconnect multi-meters, voltmeters, ammeters or ohmmeters with the ignition switched ON.
- DO NOT reverse the polarity of the fuel pump.
- ALWAYS ensure that all electrical connections are in good condition and making good contact, PARTICULARLY the ECM connector.
- ALWAYS disconnect the ignition coil, ECM, fuel pump relay/fuse before carrying out a compression test.
- DO NOT flash a wire or circuit to ground to check that continuity exists.
- Modern ignition systems operate at very high voltages and these high voltages can severely damage transistorized components such as a wrist-watch if electrical contact is made. Wearers of heart pacemaker devices, therefore, should not at any time carry out work involving ignition systems. In addition to the danger from electric shock, further hazards can arise through sudden uncontrolled body movement causing involuntary contact with moving parts of the engine, i.e. fan blades, pulleys and drive belts.
- ALWAYS ensure that any replacement fuel system parts are correct for the application in question. Many units share common external features, but differ internally.

Mechanical

CAUTION: To minimize fire risk, fuel system must be depressurized before disconnecting any fuel lines or fuel system components.

- ALWAYS disconnect the distributor before carrying out a fuel pump pressure or delivery check.
- AVOID the risk of fire ALWAYS disconnect the ignition coil supply and ground the coil HT lead, so that NO HT spark can be emitted, before checking the fuel injector valves, or any other component of the fuel injection system likely to result in the presence of fuel in or around the engine bay.
- AVOID the risk of fire NEVER work on the fuel injection system when SMOKING or close to a NAKED FLAME.
- ALWAYS keep a fire extinguisher close at hand when working on the fuel injection system.

Wiring diagram

Telephone: Fax: VAT Registration No.:

K143	AC compressor clutch relay			
S341	AC refrigerant triple pressure switch			
31	Battery -			
30	Battery +			
Y81	Camshaft position (CMP) actuator			
K153	Camshaft position (CMP) actuator relay			
B132	Camshaft position (CMP) sensor			
B54	Crankshaft position (CKP) sensor			
X1	Data link connector (DLC)			
A161	Digital multifunction display			
A35	Engine control module (ECM)			
K46	Engine control relay			
B24	Engine coolant temperature (ECT) sensor			
H63	Engine malfunction indicator lamp (MIL)			
B75	Engine speed (RPM) sensor			
Y104	Evaporative emission (EVAP) canister purge valve			
M12	Fuel pump			
K20	Fuel pump relay			
F	Fuse			
B72	Heated oxygen sensor (HO2S)			
Y56	Idle speed control (ISC) actuator			
T1	Ignition coil			
15	Ignition switch - ignition ON			
A162	Immobilizer control module			
S39	Inertia fuel shut-off (IFS) switch			
Y3	Injector			
B25	Intake air temperature (IAT) sensor			
K241	Intake manifold air control relay			
Y102	Intake manifold air control solenoid - 2,4			
B69	Knock sensor (KS)			
B30	Mass air flow (MAF) sensor			
P9	Speedometer			
P7	Tachometer			
B147	Throttle position (TP) sensor			
A57	Transmission control module (TCM)			



AD72618

bl = blue	br = brown	el = cream	ge = yellow
gn = green	gr = grey	nf = neutral	og = orange
rs = pink	rt = red	sw = black	vi = violet
ws = white	hbl = light blue	hgn = light green	rbr = maroon
x = braided cable	y = high tension	z = non-cable connection	

NOTE: In certain diagrams (Citroen, Peugeot & Renault), colour codes are replaced by numbers which are used to identify a particular cable and not the colour. In this instance, the cables will be numbered at each end close to the harness connector.

Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02

© Autodata Limited 2004 2007.10.22. /5 500. /Autodata



Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02 © Autodata Limited 2004 2007.10.22.



Manufacturer: Lancia Engine code: 838A1.000 Tuned for: R-Cat

Model: Kappa 2,0 Output: 107 (145) 6100 Year: 1994-02 © Autodata Limited 2004 2007.10.22.