

2004 Annual Summary of Emission Related Recall and Voluntary Service Campaigns Performed on Light-Duty Vehicles and Light-Duty Trucks

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Certification and Compliance Division
Office of Transportation and Air Quality
U.S. Environmental Protection Agency

2004 Annual Summary of Emission Related Recall and Voluntary Service Campaigns Performed On Light-Duty Vehicles and Light-Duty Trucks*

Recall Campaigns

Mfr.	Mfr. Recall Number	EPA#	Type	Owners Notification	MY	Vehicle or Engine Class	Engine Family	Problem Description	Affected Vehicles	Sales Area	Total Number of Vehicles Recalled
BMW	04V-182	2286	V	5/31/2004	2003 2003 2004 2004	Z4 Z4 Z4 Z4	3BMXV03.0LER 3BMXV03.0M5R 4BMXV03.0LER 4BMXV03.0M5R	Under certain environmental conditions, vapor lock in the fuel pump could occur. This could cause the engine to stall. Remedy: Installation of a resistor in the wiring harness powering the fuel pump. This repair will reduce the power out put of the fuel pump and prevent vapor lock from occurring.	7670 5133 573 396	CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) 50S 50S	13772
BMW	D-04-4.4-2 D-04-4.4-2&D-04-4.4-2	2304	V	11/9/2004	2004 2004 2004	745i, 745Li X5 4.4i 545i, 645Ci, 645Ci Cabrio	4BMXV04.4LEV 4BMXT04.4N62 4BMXV04.4LEV	OBD defect affects the diagnostic of the oxygen sensor. In case of an oxygen sensor failure no fault code would be stored and the MIL would not be illuminated. Remedy: A nationwide emission recall campaign to correct the problem by updating the software of the ECU.	14000 6000 12100	50S 50S 50S	5133
BMW	D-02-04-1.6-1	2309	V	11/10/2004	2002 2003 2003 2004	Cooper, Cooper S Cooper, Cooper S Cooper, Cooper S Cooper, Cooper S	2BMXV01.6R50 3BMXV01.6R50 3BMXV01.6R5R 4BMXV01.6R50	A error in the software of the ECU module causes the LDP to fail. Remedy: A recall was implemented by BMW to correct the problem by updating the software of the ECU.	17400 18000 19000 27000	NF(CFV+CA+NL) NF(CFV+CA+NL) NF(CFV+CA+NL) NF(CFV+CA+NL)	81400
BMW	D-04-3.0-1	2356	V	9/30/2004	2004	530i, 525i, 530i	4BMXX03.0ULV	Due to software error in the ECU the readiness code for the comprehensive component monitors are not set and stored at the end of the OBD system check. The component diagnostics are not affected and are performed correctly. Remedy: BMW decided to implement a nationwide voluntary emissions recall campaign to correct the problem by updating the software of the ECU, enabling the comprehensive component readiness code to set as designed.	29454	50S	29454
BMW	D-02/03-1.6-1	2357	V	11/10/2004	2002 2003 2003	COOPER S COOPER S COOPER S	2BMXV01.6R50 3BMXV01.6R50 3BMXV01.6R5R	Due to supplier mix-up an unsuitable material was used for all ventilation return hoses. Over time this may cause the hose to fail, allowing gases to leak. This is also accompanied by a whining noise under certain conditions. Remedy: BMW decided to implement a recall to correct the problem. Improved components have been phased into production and available for service	3250 7815 6045	NF	17110
DAIMLER/CHRYSLER	C37	2145	V	1/9/2004	2004 2004	Chrysler Sebring Dodge Stratus	4DSXV03.0GBC 4DSXV03.0GBC	The VECI label language incorrectly indicates the California cert level is "Interim Non-Tier 2, Bin 9" when it should state LEV1 LEV. Remedy: New VECI label will be sent to owner.	1044 3067	50S 50S	4111
DAIMLER/CHRYSLER	2004-1	2208	V	2/23/2004	2004	2.4L PT Cruiser	4CRXV02.4VH0	Test group name contains 11 of the 12 characters on VECI label. Remedy: A new VECI label will be sent to the vehicle owner. The owner can install the label or have the dealer install the label.	1809	FC(Tier2 Fed&Cal)	1809
DAIMLER/CHRYSLER	2004-8	2259	V	4/12/2004	2005	Dodge Caravan	5CRXTO2.42N0	Oil filler cap does not confirm to EPA guidance letter. The oil viscosity is not displayed on the cap as required. Remedy: Daimler/Chrysler will conduct a Voluntary Emission Recall of the affected vehicles to replace the oil filler cap with one with the correct nomenclature. The new cap will be sent to the owner. Installation can be done by owner or any Daimler/Chrysler dealer who will install it for them.	292	50S	292
DAIMLER/CHRYSLER	2004-9	2263	V	4/12/2004	2004	Jeep Grand Cherokee	4CRXT04.02N0	Vehicles built with core software issue that could affect the function of the OBD system. Remedy: The Powetrain Control Module will be reprogrammed with the correct software calibration.	2475	50S	2475

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DAIMLER/CHRYSLER	2004-13	2270	V	5/28/2004	2005	Chrysler 300C	5CRXV05.7VH0	Vehicles have a European (BUX) Powertrain Control Module (PCM) calibration prior to shipment. The BUX calibration has unique OBD monitor requirements that are different from the federal and California requirements. Remedy: Daimler/Chrysler will conduct a Voluntary Emission Recall of the affected vehicles and install a new PCM with the correct U. S. calibration.	260	50S	260
DAIMLER/CHRYSLER	2004-14	2271	V	5/29/2004	2004	Dodge Stratus, Chrysler Sebring sedans	4CRXV0148VX0	Partial Zero emission vehicles were manufactured with VECI labels that did not include the "AIR" nomenclature for the air pump. Remedy: Daimler/Chrysler will conduct a recall of the affected vehicles and mail a revised VECI label to the owner for installation on the vehicle.	680	CA	680
DAIMLER/CHRYSLER	2004-17& 2004-17-E	2375	V	9/27/2004	2005	300 C, DODGE MAGNUM	5CRXV05.7VH0	Some 2005 model year vehicles have VECI labels with a typographic error in the spark plug specifications. Remedy: Recall (D38), on affected vehicles the VECI label will be replaced. New VECI labels will be sent with the Owner Notification Letter. Owner/dealer can install new label.	25184	50S	25184
DAIMLER/CHRYSLER	2004-19	2384	I	10/18/2004	2004	Dodge Ram	4CRXT04.75TP	OBd software problem. The evaporative system monitor readiness bit could be cleared with only a single cold-start in cold ambient temperatures rather than the required two or more cold starts under these conditions. Remedy: Chrysler will reprogram the Powertrain Control Module on all affected vehicles.	673	FED	673
FORD	^03E05	2066	V	2/2/2004	2002 2002 2003 2003	Explorer Explorer Explorer Explorer	2FMXT04.02F3 2FMXT04.02F5 3FMXT04.02F3 3FMXT04.02FA	Some 2002 and 2003 model year 4.0L Explorer Sport Trac trucks may have evaporative canister fresh air vent hoses that can dislodge from the splash apron and allow water to contaminate the canister. Remedy: Replace the evaporative emission fresh air inlet hose connector with an elbow assembly.	68535	50S	68535
FORD	^04E09	2336	V	5/31/2004	2001 2002 2003	E-Series E-Series E-Series	1FMXT05.4RP6 2FMXT05.4RP5 3FMXT05.4RP5	Some compressed natural gas vehicles may develop a fuel leak at one or both of the fitting locations. Remedy: Both adjustable fittings will be replaced.	550 420 520	CA CA CA	1490
FORD	^04E10	2337	V	5/31/2004	1997 1998 1999 2000 2001 2002 2003	E-Series E-Series E-Series E-Series E-Series E-Series E-Series	VFM5.468C7EK WFMXT05.4RP6 XFMXT05.4RP6 YFMXT05.4RP6 1FMXT05.4RP6 2FMXT05.4RP5 3FMXT05.4RP5	Some compressed natural gas vehicles may develop a fuel leak due to contact by the rear brake hose and/or axle vent hose. Remedy: Dealer will inspect the rear high pressure fuel line for a leak. If not leaking install a shield. If leaking replace line with a new line.	645 695 580 600 550 410 520	CA CA CA CA CA CA CA	4000
GENERAL MOTORS	ML-MW067	2383	V	9/1/2004	2004 2005	CTS-V CTS-V	4GMXV05.7083 5GMXV06.0081	Vehicles were built with fuel feed jumper pipe assembly that was out of specification. The tube does not contain a special coating to reduce fuel vapor permeation. Remedy: Replacement of tube with proper coating and specifications.	2448 351	50S 50S	2799
HONDA/ACURA	EDIR-03-034-00	2199	V	1/31/2004	2003 2004	ACURA MDX ACURA MDX	3HNXT03.5TKR 4HNXT03.5TKR	OBd cannot perform evaporative leak monitor when the fuel level sensor circuit failure occurs (MIL not illuminated). Remedy: An ECM with improved calibration is available for production and for remedy under Running Change/Field fix #D8 and Service Bulletin 03-035.	55830 9509	CA FA CA FA	65339

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HONDA/ACURA	EDIR-04-006-00	2303	V	3/8/2004	1998 1998 1998 1998 1999 1999 1999 1999 1999 2000 2000 2000 2000 2001 2001 2001 2001 2001 2002 2002 2002 2002	Accord Accord	WHNXV02.3PF1 WHNXV02.3PL2 WHNXV02.3PA3 WHNXV02.3PL4 XHNXV02.3PF1 XHNXV02.3PL2 XHNXV02.3PA3 XHNXV02.3PL4 YHNXV02.3PA3 YHNXV02.3PF3 YHNXV02.3PL4 YHNXV02.3NL5 1HNXV02.3VH2 1HNXV02.3ZJ1 1HNXV02.3W87 1HNXV02.3BF9 2HNXV02.3RDA 2HNXV02.3MJT 2HNXV02.3FK6 2HNXV02.3PNE	Idle air bleed may be restricted so that idle air flow is reduced. Idle speed may dip and engine may stall intermittently when it is just "off idle". Jerking during deceleration, hesitation at acceleration afterward, unstable idle and engine stall at vehicle stop. Remedy: The idle adjusting screw will be adjusted, and do the idle learn procedure, according to the Honda Technical Service Bulletin # 04-011.	4907 4084 252122 28961 2914 4024 181446 66267 5096 159577 116733 2474 35327 129993 85056 5150 241587 95887 4454 22378	FED CE(CA+NLEV) 50S CA FED CE(CA+NLEV) NF(CFV+CA+NL) CE(CA+NLEV) NF(CFV+CA+NL) 50S CL(CA+NLEV ALLS) CA NF(CFV+CA+NL) 50S CL(CA+NLEV ALLS) CA NF(CFV+CA+NL)	1448437
HYUNDAI	2004.06.08.01 SC066	2341	V	6/8/2004	2002 2002 2002 2002 2002 2003 2003 2003 2003 2003 2003	Elantra Elantra Sonata Sonata XG350 Elantra/ Tiburon Elantra/ Tiburon Tiburon Sonata Sonata XG350	2HYXV02.0XUC 2HYXV02.0XLF 2HYXV02.4ELS 2HYXV02.7FLS 2HYXV03.5GLS 3HYXV02.0CUC 3HYXV02.0CLF 3HYXV02.7KLS 3HYXV02.4ELS 3HYXV02.7FLS 3HYXV03.5GLS	Vehicles may contain a fuel cut valve that may not close properly due to insufficient clearance between the valve case and the float. The pressure in the fuel tank drops to a threshold value during driving, and causes a diagnostic code indicating a closed valve clogging error. Remedy: Will install the additional fuel cut valve on the affected vehicles and publish a technical service bulletin for dealers.	44923 46461 21566 39085 18071 19488 29860 20321 10477 13529 1965	50S FED 50S 50S 50S 50S FED 50S 50S 50S 50S	265746
KIA	2004.05.26.01	2284	V	5/31/2004	2001 2002 2003 2004 2004	Rio Rio Rio Rio Rio	1KMXV01.5C01 2KMXV01.5C02 3KMXV01.6C01 4KMXV01.6C02 4KMXV01.6C03	The fuel intake nipple of the fuel distributor is subject to fracture or cracking during removal of the quick-connect coupling securing the main fuel tube assembly to the fuel intake nipple, or when force is accidentally applied to the intake nipple during the assembly process. Remedy: A new steel nipple and fuel tube assembly will be installed at no charge. Kia has issued service bulletin SC036 to dealers for repair information.	57340 57292 44120 20204 5272	50S 50S 50S 50S 50S	184228
KIA	SC038	2340	V	5/31/2004	2002 2002 2003 2003	Optima Optima Optima Optima	2KMXV02.4D02 2KMXV02.7E01 3KMXV02.4D03 3KMXV02.7E02	Defective Fuel tank assembly valve may not close properly. During vehicle roll over, fuel spillage may occur. Kia will publish technical service bulletin to provide repair information to dealers. Remedy: Kia will repair vehicles with new fuel cut valve in addition to the one on the tank.	9292 7371 4761 4369	50S 50S 50S 50S	25793
KIA	2004.08.19.01	2377	V	11/1/2004	2005	Sedona	5KMXT03.5GM5	A false malfunction indicator light (MIL) illumination due to the misapplication of a design restricted flow vent elbow in evaporation system. Kia will publish a TSB to provide repair information to Kia dealers for this condition. Remedy: Kia will replace the vent elbow.	691	50S	691
LAND ROVER	2004-RV8-1	2221	V	9/30/2004	2000 2000 2001 2002	Range Rover Range Rover Range Rover Range Rover	YLRXT04.6001 YLRXT04.6002 1LRXT04.6001 2LRXT04.6001	Right hand exhaust manifolds are cracking at the junction of the primary tracts into the collector pipe. Remedy: Exhaust manifolds will be inspected and replaced if necessary.	13005	50S 50S 50S 50S	13005

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LAND ROVER	#2004-RV8-5 / B167	2325	V	7/28/2004	2001 2002 2002 2003 2004	Discovery Discovery Discovery Discovery Discovery	1LRXT04.6001 2LRXT04.6001 2LRXT04.6003 3LRXT04.6001 4LRXT04.6001	A software fault that monitors the electrical connection between the DMTL switches on pump motor and the ECM causes MIL illumination. Remedy: Land Rover will recall the affected vehicles to replace calibration files in the ECM's.	6160 6211 6211 21368 15866	CA CA CA CA CA	55816
MAZDA	LCE-03/207	2140	V	8/27/2004	2002 2003	MPV MPV	2TKXT03.0GLA 3TKXT03.0FLA	PCV hose may crack due to acids and fuel in PCV gases, and stress created by engine vacuum changes, as well as ozone attack on hose exterior. MIL will illuminate. Remedy: Mazda dealers will install a modified Positive Crankcase Ventilation hose.	61000	NF(CFV+CA+NL) NF(CFV+CA+NL)	61000
MINI	SC-03-002	2145	V	10/31/2003	2004 2004 2004	Eclipse, Eclipse Spider Eclipse, Eclipse Spider Eclipse, Eclipse Spider	4DSXV02.0GBB 4DSXV03.0GBB 4DSXV03.0GBC	The VECI label language incorrectly indicates the California cert level is "Interim Non-Tier 2, Bin 9" when it should state LEV1 LEV. Remedy: New VECI label will be sent to owner.	1022 174 431	50S 50S 50S	1627
MINI	SR-04-008	2414	I	8/1/2004	2002 2003 2004	Montero Montero Montero	2MXT03.5GNS 3MXT03.5GNS 4MXT03.5GNS	When vehicle is tilted on an upward slope, with a full fuel tank, the fuel tank leveling valve may not provide proper sealing. This will cause gasoline to be leaked onto the ground. Remedy: Fuel leveling valve and fuel filler check valve will be replaced with modified ones. Evaporative canister will be inspected for damage from liquid gasoline.	28121 12946 3147	50S 50S 50S	44214
ROLLS ROYCE	D-04-6.7-1	2305	V	9/30/2004	2004	Phantom	4RRXV06.7N73	OBD Related defect affects the diagnostic of the oxygen sensor. In case of a oxygen sensor failure no fault code would be stored and MIL would not be illuminated. A nationwide emission recall campaign to correct the problem by updating the software of the ECU. Remedy: The corrective measure consists of a software update in the ECU module correcting an OBD related shortcoming that affects the oxygen sensor monitor.	440	50S	440
SUBARU	GA04-052C	2345	V	7/23/2004	2004 2005	Baja Turbo Baja Turbo	4FJXT02.5PGT 5FJXT02.5PGT	Incorrect California standard compliance statement Remedy: Correct VECI label will be issued.	1085 746	50S 50S	1831
TOYOTA/LEXUS	SSC 40A	2188	V	1/30/2004	2004	Prius e/w 1NZ-FXE engine	4TYXV01.5MC1	A communications error may occur under certain conditions, between the battery-ECM and HV-ECM, illuminating the MIL, and the vehicle to go to "limp-home" mode. Frequent "driveline shock" may be experienced when the vehicle is restarted and driven in "limp-home" mode, due to a deficiency in HV-ECM software. Remedy: Toyota will reprogram the HV ECU with modified software.	3500	CA, FA	3500
TOYOTA/LEXUS	SSC 40D	2241	V	5/31/2004	2004	Prius (engine 1NZ-FXE)	4TYXV01.5MC1	The HV ECM and Battery ECM do not conform to the SAE 1979/ISO-5 CAN communication standard. The non-conformities may prevent the "Malfunction Indicator Lamp (MIL)" from being recognized by the OBD scan tool. Remedy: The HV-ECM will be "reflashed" with modified software by the dealer.	25000	50S	25000

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Mfr.	Mfr. Recall Number	EPA#	Type	Owners Notification	MY	Vehicle or Engine Class	Engine Family	Problem Description	Affected Vehicles	Sales Area	Total Number of Vehicles Recalled
TOYOTA/LEXUS	4LB	2293	V	8/31/2004	2004	LS430	4TYXV04.3WMA	Impeller in the fuel pump may become deformed and may contact the fuel pump body causing failure of the fuel pump. Toyota will conduct a voluntary safety recall of the subject vehicles. Remedy: The fuel pump will be replaced at no cost to owner.	14300	50S	14300
VOLVO	R138	2417	V	9/30/2004	2003 2003 2004 2004 2004 2004 2004 2004	XC90 XC90 XC90, V70, XC70, S60 XC90 V70, S60 V70 V70, S60 S60	3VVXV2.52U2T 3VVXT2.92U1T 4VVXX2.52U2T 4VVXT2.92U1T 4VVXV2.52L1T 4VVXV2.43S2N 4VVXV2.43U2N 4VVXV2.43S2N	Vehicle's vacuum hose routing label is incorrect or missing from the vehicle. Remedy: Corrected/missing labels will be mailed to owner with instructions for proper application.	3922 8906 8360 4036 488 214 2493 751	50S 50S 50S 50S 50S CA 50S 50S	29170
									Total number of vehicles voluntarily recalled:		2,499,314
			Type:								
			O- Ordered by EPA								
			I- Manufacturer voluntary Action with EPA Influence								
			V- Voluntary Action by Manufacturer								
			Sales Area:								
			CL- California + NLEV (all States)								
			FED- Federal States (all altitude)								
			CA- California								
			FED/NLEV- Northeast States (all Altitude)								
			NL(NLEV ALLS) - NLEV + All States								
			NE+CA- NLEV Northeast States+California								
			CE- California + NLEV								
<p>*For the purposes of this report only, a <u>Recall Campaign</u> is a direct owner notification requesting or recommending that the vehicle be brought into a service facility for inspection and/or repair regardless of whether there is an indication of failure. For the purposes of this report only, a <u>Voluntary Service Campaign</u> is a direct owner notification alerting the owner of a potential problem should there be an indication of failure, and how the problem will be remedied by the manufacturer should the problem effect the owner's vehicle. EPA recognizes that manufacturers may wish to voluntarily notify their customers of potential issues for which service may be required. However, under 40 CFR 85.1902 (d), any repair, adjustment, or modification program voluntarily initiated by a manufacturer to remedy any emission-related defect for which direct owner notification is provided is defined as a Voluntary Emissions Recall.</p>											

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Voluntary Service Campaigns

Mfr.	Mfr. Recall Number	EPA#	Type	Owners Notification	MY	Vehicle or Engine Class	Engine Family	Problem Description	Affected Vehicles	Sales Area	Total Number of Vehicles Recalled
KIA	SC028 & SC037	1915	VSC	3/28/2003 4/1/2004	2001 2002	Optima Optima	1KMXV02.5D01 2KMXV02.7E01	Some 2001 model year KIA Optima's equipped with 2.5 liter engines have experienced a malfunction indicator light illumination as a result of oxygen sensor malfunction. The main cause of failure was a slow response signal output characterized by a long switching time and low amplitude. These abnormal signal outputs are caused by contamination of the oxygen sensor from oil or other exhaust impurities that are present during operation. Remedy: KIA has improved the oxygen sensor by adding an additional calcium coating to the surface of the sensor which will protect the sensor from contamination. The ECM will be reprogrammed to reflect the characteristics of the improved sensor.	8107 13393	50S 50S	21500
KIA	2004.02.04.01	2205	VSC	2/6/2004	2001 2002 2003	Rio Rio Rio	1KMXV01.5C01 2KMXV01.5C02 3KMXV01.6C01	Unstable condition at idle or near stopping conditions due to a problem with the TPS signal at low voltage (closed throttle). In the idle or near stopping condition, interference due to noise (noise value is high relative to signal voltage) may affect the capability of the system to determine the throttle position accurately. The ECM may misinterpret this condition and attempt to compensate for a false-lean condition by enriching the mixture. After increasing the fuel amount, the fuel value is recalculated/reduced based on several factors, and may then become overly lean. Remedy: Kia has changed the ECM logic to include a filter for the TPS signal. Kia will reprogram the ECM with the new software.	57340 57292 13380	CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS)	128012
VOLKSWAGEN/AUDI	AWA-04-21	2277	VSC	9/8/2004	2001	Audi,A6/A8 Quattro	1ADXV04.2345	Front oxygen sensor malfunction was caused by a contamination inside the air reference chamber. This may happen along with moisture inside the sensor body due to reduced exhaust temperature in particular load conditions. The MIL will be illuminated. Remedy: Changed production process of the sensor February 2001. Will replace the related front oxygen sensor left/right in case of complaint, free of charge for extension of warranty of 7 years/70,000 Miles.	4511	50S	4511
			Type:					Total number of vehicles VSC&I-VSC recalled:			154,023
			O- Ordered by EPA								
			I-VSC- Manufacturer voluntary Action with EPA Influence								
			VSC- Voluntary Action by Manufacturer					Total number of vehicles Effected by Voluntary			
								Recalls and Voluntary Service Campaigns:			2,653,337
								Total number of Voluntary Service Campaigns	3		
								Total number of Influenced Voluntary Emission Recalls and Influenced Voluntary Service Campaigns:	2		

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								Total number of all Voluntary Emission Recalls and all Voluntary Service Campaigns:	37		
		Sales Area:									
		CL- California + NLEV (all States)									
		FED- Federal States (all altitude)									
		CA- California									
		FED/NLEV- Northeast States (all Altitude)									
		NE+CA- NLEV Northeast States+California									
		CE- California + NLEV									
		<p>*For the purposes of this report only, a <u>Recall Campaign</u> is a direct owner notification requesting or recommending that the vehicle be brought into a service facility for inspection and/or repair regardless of whether there is an indication of failure. For the purposes of this report only, a <u>Voluntary Service Campaign</u> is a direct owner notification alerting the owner of a potential problem should there be an indication of failure, and how the problem will be remedied by the manufacturer should the problem effect the owner's vehicle. EPA recognizes that manufacturers may wish to voluntarily notify their customers of potential issues for which service may be required. However, under 40 CFR 85.1902 (d), any repair, adjustment, or modification program voluntarily initiated by a manufacturer to remedy any emission-related defect for which direct owner notification is provided is defined as a Voluntary Emissions Recall.</p>									