



# 2002 Calendar Year Emissions Related Recall/Service Campaign Report

## **2002 Calendar Year Emissions Related Recall/Service Campaign Report**

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

### *NOTICE*

*This technical report does not necessarily represent final EPA decisions or positions.  
It is intended to present technical analysis of issues using data that are currently available.*

*The purpose in the release of such reports is to facilitate the exchange of  
technical information and to inform the public of technical developments which  
may form the basis for a final EPA decision, position, or regulatory action.*

2002 Annual Summary of Emission Related Recalls 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 Fam.	Problem description	Affected Veh's.	Sales Area	Total number of vehicles recalled
BMW	02E-A01	1807	V	4/23/2002	1999 2000	323i, 323Ci, 323i Cabrio, 323iT, 328i, 328Ci, 528i, 528iT, Z3 Coupe, Z3 2.5, Z3 2.8	XBMXV02.8LEV YBMXV02.8LEV	The crankcase ventilation return pipe is chemically damaged from inside by some components of the condensed fluid. The problem is indicated by the check engine light and a fault code is stored in the engine control unit. <b>Remedy:</b> The corrective measure consists of the replacement of the engine crankcase ventilation hose with a new, improved version.	50661 84280	50S 50S	134941
BMW	02V-150	1940	V	6/30/2002	2002	745i, 745Li	2BMXV04.4LEV	The potential defect involves the electric fuel pump of potentially affected vehicles. The pump runs at a rotational speed that may result in reduced lubrication of its internal components. This could lead to significant wear of those components over an extended period of time eventually reducing the output of the pump to a point, where it could no longer transfer fuel from the fuel tank's left chamber to its right chamber, from which fuel flows to the engine. <b>Remedy:</b> BMW will conduct a recall campaign to reprogram the fuel pump control system of the potentially affected vehicles. As a result, the fuel pump will operate at a speed that will provide sufficient lubrication to prevent significant wear of its internal components.	8412	NF(CFV+CA+NL)	8412
DAIMLER/CHRYSLER	B25	1951	V	10/28/2002	2002	Dodge Caravan, Grand Caravan; Chrysler Town and Country, Chrysler Voyager	2CRXT03.82D0 2CRXT03.32DP 2CRXT03.82D1	Due to an over-temperature weld condition, the control valve, which is part of the ORVR Evaporative Control System, may separate from the tank assembly. This could result in a possible fuel leak. <b>Remedy:</b> DaimlerChrysler will inspect and repair the vehicle free of charge.	2 55972 60055	CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS)	116029
FORD	02E18	1817	V	3/18/2002	2000	Lincoln LS	YFMXV03.9VF5	Some 2000 model 3.9L Lincoln LS passenger cars may have thermostats that can fail due to stress corrosion cracking. <b>Remedy:</b> The thermostat will be replaced with an improved thermostat.	6740	50S	6740
FORD	02E17	1864	V	3/18/2002	1997 1998 1999 2000	F-Series	VFM5.468C7FK WFMXT05.4RP5 XFMXT05.4RP5 YFMXT05.4RP5	In some of the affected vehicles the fuel rail flex line may have chafed against the supply heater hose which runs from the engine to the heater core, and against the return heater hose which runs from the heater core to the engine. This contact by the heater hose on the fuel rail flex line has the potential to cause a small abrasion on the fuel rail that could eventually result in a gaseous fuel leak. <b>Remedy:</b> 1997 through 2000 MY 5.4L Dedicated Compressed Natural Gas Ford F-Series Trucks will have the two heater system hoses replaced and, if abrasion is noticed on the fuel line, the fuel rail assembly will be replaced.	430 410 590 650	50S 50S 50S 50S	2080

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Mfr.	Mfr. Recall Number	EPA #	Type	Owners Notification	MY	Vehicle or Engine Class	Engine Fam.	Problem description	Affected Veh's.	Sales Area	Total number of vehicles recalled
FORD	02E21	1898	V	6/21/2002	2002	Thunderbird	2FMXV03.9VF5	Some 2002 model 3.9L Thunderbird passenger cars may have the catalyst monitor sensor connector wiring reversed. The potentially affected vehicles were built from February 13, 2002, through April 22, 2002. <b>Remedy:</b> The dealer will inspect all of the affected vehicles to make sure that the left and right Catalyst Monitor Sensor's (CMS) connectors are attached to their respective catalysts. Field campaign 02E21 will be conducted to correct vehicles in the field.	5600	50S	5600
GENERAL MOTORS	01075	1803	V	1/31/2002	2001	Camaro, Firebird, Corvette	1GMXV05.7081	Uncertified service calibrations for certain 2001 Chevrolet Camaro and Corvette and Pontiac Firebird models were released in error and subsequently programmed into some vehicles that returned to GM dealers for service during the period in which these calibrations were available. <b>Remedy:</b> GM will re-program the vehicles that were previously programmed with an uncertified service calibration that was provided to dealerships in error.	120	50S	120
GENERAL MOTORS	02021	1888	V	7/8/2002	2002 2002	Escalade	2GMXA06.0194 2GMXT06.0187	Uncertified Powertrain Control Module (PCM) calibrations were mistakenly installed in certain 2002 Cadillac Escalade vehicles during production. <b>Remedy:</b> A voluntary Emission Recall will be conducted on all vehicles that do not have the certified production calibration installed.	37 267	CA FED	304
GENERAL MOTORS	02059	2006	V	12/27/2002	2003	G Series C/K Series	3GMXT05.3174 3GMXT05.3181	Incorrect spark plugs were installed into certain 5.3L and 6.0L engines. The incorrect spark plugs have the wrong heat range and longer tips. <b>Remedy:</b> The correct spark plugs will be installed at no charge to the owner.	10 1	FED FED	11
GFI	02E19	1850	V	2/28/2002	2001 2001	F-Series Trucks	1G9XT05.46NN 1G9XT05.46NP	Certain 2001 5.4L Ford F-Series Bi-Fuel (CNG/LPG) Conversion vehicles were built with incorrect catalytic converter assemblies in four of the five locations in the exhaust system. <b>Remedy:</b> The left and right side catalyst assemblies, involving a total of four catalysts, will be replaced with the correct catalyst assemblies.	46	50S	46
HONDA/ACURA	PUD-02-020-00	1925	V	7/10/2002	2000 2001 2002	S2000	YHNXV02.0MA3 1HNXV02.0C5U 2HNXV02.0DYC	The spark plug gasket is crushed and the spark plug tightening torque is lost so that it will loosen. Misfire will occur, idling will be unstable and the MIL will turn on. <b>Remedy:</b> The spark plugs will be applied to the assembly line and available for repair under Running Change/ Field Fix #57. The owner of the vehicle will be notified to bring their vehicle to the dealership for replacement of the spark plugs according to Honda Service Bulletin #02-042 under Honda's Product Update Campaign.	9206 9945 7742	CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS)	26893
HONDA/ACURA	VERR-02-006-00	1960	V	12/31/2002	2000 2001	Insight	YHNXV01.0LA4 1HNXV01.0FH6	The OBD monitoring system of the LAF sensor may falsely overlook a certain type of malfunction which causes the elimination of the air-to-fuel ratio control. <b>Remedy:</b> An ECM with remedied calibration has been applied to the Insight models at the assembly line and a letter has been sent to owners to bring their vehicles in for this service.	5603 1,910	NF(CFV+CA+NL) NF(CFV+CA+NL)	7513

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Recall Campaigns

Mfr.	Mfr. Recall Number	EPA #	Type	Owners Notification	MY	Vehicle or Engine Class	Engine Fam.	Problem description	Affected Veh's.	Sales Area	Total number of vehicles recalled
HYUNDAI	49	1791	V	3/4/2002	2001	Santa Fe	1HYXT02.7M3S	Some 2001 model year Hyundai Santa Fe's equipped with 2.7 liter engines have experienced malfunction indicator light illumination as a result of a crankshaft position sensor malfunction. The malfunction is caused by a crack at the solder joint between the circuit board and the wiring terminal. Engine vibration may cause an intermittent open circuit to occur in this area. <b>Remedy:</b> Hyundai will replace the Crankshaft Position Sensors (CPS) on all affected vehicles.	15241	50S	15241
HYUNDAI	048	1833	V	1/31/2002	2001	XG 300	1HYXV03.0G2S	Some 2001 model year Hyundai XG 300 vehicles were produced with an improperly manufactured Powertrain Control Module (PCM), which contained a condenser that was not correctly installed onto the PCM printed circuit board. The incorrect installation of the condenser may result in damage to the Ignition Failure Sensor. A damaged Ignition Failure Sensor may result in engine stalling. <b>Remedy:</b> Hyundai will inspect the PCM to determine if it was manufactured during the affected production period. If necessary, the PCM will be replaced at no charge to the owner.	1963	50S	1963
HYUNDAI	054	1894	V	6/17/2002	2003	Tiburon	3HYXV02.0CUC	The underhood emission control system label is in error citing an incorrect in-use emission standard. The label will be replaced with one that is correct. <b>Remedy:</b> Only the underhood emission control system label will be replaced during this campaign. These labels will be sent to owners with the owner notification letters.	1156	CA	1156
HYUNDAI	057	1963	V	11/23/2002	2003	Tiburon	3HYXV02.0CLF 3HYXV02.0CUC 3HYXV02.7KLS	The 2003 model year Hyundai Tiburon models in test groups 3HYXV02.0CLF, 3HYXV02.0CUC, 3HYXV02.7KLS were produced without a ground wire to Pin 5 of the OBD connector. The lack of this ground wire contact location may lead to the inability to properly communicate with the ECU during diagnostic procedures or I/M inspections when using certain scantools. <b>Remedy:</b> Hyundai has corrected this problem for new production vehicles and sent letters to the owners of these vehicles recalling them to modify the OBD connector to include a ground connection at Pin 5.	11,659 1,601 6,509	NL(NLEV ALLS) CA CA	19769
HYUNDAI	047	2014	V	4/15/2002	2000 2000 2001 2001	Accent	YHYXV01.5G1F YHYXV01.5G3F 1HYXV01.5A3S 1HYXV01.6B3S	Some 2000-2001 model year Hyundai Accents may experience the PCV and PCV hose freezing under certain environmental conditions. It is necessary for the vehicle to be driven for an extended period at a steady throttle opening during extremely cold ambient temperatures (below approximately 5 degs.F with high humidity). Moisture in the blow-by gases may condense and freeze within the PCV and hose and may lead to blockage of the blow-by gases. <b>Remedy:</b> Hyundai will replace and relocate the PCV hose on all models in certain "cold weather" states. These vehicles have been recalled under a safety related recall campaign 047.	10,681 10,715 5,320 22,775	FED CA 50S 50S	49491

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Recall Campaigns

Mfr.	Mfr. Recall Number	EPA #	Type	Owners Notification	MY	Vehicle or Engine Class	Engine Fam.	Problem description	Affected Veh's.	Sales Area	Total number of vehicles recalled
JAGUAR	S701	1672	V	3/1/2002	1998 1999	XJ series, XK series	WJCV04.0AS3 XJCV04.0AS3	A number of owners of 1998 through 1999 model year Jaguar XJR vehicles, equipped with an exhaust gas recirculation system, have been alerted to the presence of a possible problem by the sound of an exhaust leak and/or illumination of the MIL. It was established that the noise was being caused by exhaust gas escaping from the pipe that transfers exhaust gas from the exhaust manifold to the EGR valve. The escape was caused by a crack in the transfer pipe. <b>Remedy:</b> The design of the convolutions that provide for flexibility of the transfer pipe has been modified to improve the pipe's resistance to damage during installation and due to vibration. A heat sock has been added to provide a vibration damping medium for the pipe. Technical Service Bulletin S701 describes corrective action.	1983 2461	50S 50S	4444
JAGUAR	S496	1808	V	1/31/2002	1999 2000 2000 2001 2001	XJ Series, XK Series, S-Type	XJCV04.0BN4 YJCV04.0BN4 YJCV04.0CN5 1JCV04.0BN4 1JCV04.0CN5	Fitting of the Vacuum Routing Label for 1999 - 2001 model year 4.0 liter V8 vehicles. <b>Remedy:</b> This will be accomplished by the owner of the vehicles or by their dealerships as explained in the Technical Service Bulletin S496.	20560 18243 17280 15016 9457	50S 50S 50S 50S 50S	80556
LAND ROVER	D236	1524	V	1/4/2002	1995 1995 1996 1996 1996 1997	Range Rover	SLR4.0H8G0EK SLR4.088GBEK TLR4.658GFEK TLR4.6H8G1EK TLR4.658GFFK VLR4.658GFEK	Downpipe assemblies (which incorporate 2 catalytic converters) are being replaced in the field as a result of customers complaining of a rattling noise. The cause was catalyst mat erosion. <b>Remedy:</b> A recall is to take place starting January, 2002 on Range Rover models only.	501 2490 3473 2553 968 6652	CA FED 50S CA 50S 50S	16637
LAND ROVER	D278	1918	V	8/12/2002	2002	Freelander	2LRXT02.5001	The OBD II diagnostic connector Freelander was not furnished a vehicle ground on pin number 5, as specified by SAE J1962. Although this does not create a problem when vehicles are interrogated by the Land Rover Testbook diagnostic tool, generic scan tool designs that rely on pin 5 for a ground feed will not be able to communicate with the affected vehicles. <b>Remedy:</b> Land Rover will modify the OBD connector of these vehicles by splicing a ground lead to pin number 5 of the connector.	9627	NF(CFV+CA+NL)	9627
MAZDA	0702F	1697	V	7/1/2002	1999 1999 2000 2000	Protege	XTKXV01.8VBB XTKXV01.8VGM YTKXV01.8VBB YTKXV01.8VFM	MIL illuminates due to solder breakage in the ignition coil. Insufficient solder strength may be caused by an inappropriate temperature during the soldering process. Mazda judges that the exhaust emissions may be adversely affected when this condition is present. <b>Remedy:</b> Mazda will replace the Ignition coil on the affected vehicles.	24800 same same same	FED CL(CA+NL) FED CL(CA+NL)	24800

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Recall Campaigns

Mfr.	Mfr. Recall Number	EPA #	Type	Owners Notification	MY	Vehicle or Engine Class	Engine Fam.	Problem description	Affected Veh's.	Sales Area	Total number of vehicles recalled
MITSUBISHI/D-STAR	EMR-02-001	1871	I	12/31/2002	1996	Summit, Summit wagon, Mirage, Expo LRV, Stealth, Diamante, 3000GT, 3000GT Spyder, Montero, Mighty Max Pickup, Galant, Talon, Eclipse, Eclipse conv.	TMT1.8VJGFEK TMT1.5VJG2EK TMT1.8VJG2EK TMT2.4VJGKEK TMT3.0V8GFEK TMT3.0VJGFEK TMT3.0VJGFFK TMT3.02JGKEK TMT3.02JG2EK TMT2.418GFEK TMT3.52JGKEK TMT2.4VJGKEL TMT2.0VJGFEL	The (OBD) system on some model year 1996 Mitsubishi vehicles, it was found that the malfunction indicator lamp (MIL) is commanded "ON" even though there may be no diagnostic trouble codes (DTC's) stored at that time. This error was discovered during OBD II inspection / maintenance (I/M) checks involving a small number of vehicles. This error does not affect the effective operation of the OBD II system during actual driving conditions. Monitoring of the vehicle emissions control systems and all other mandated functions (including triggering the MIL "ON" if a DTC is stored) remain fully operational. The foregoing issue only arises during I/M type checks of the system. The ECU's in the affected vehicles cannot be reprogrammed through reflashing. <b>Remedy:</b> All vehicles with the non-compliant ECU's, including vehicles produced by MMMA bearing DaimlerChrysler nameplates, will have their ECU's replaced with units that are in conformance with applicable Federal and State requirements.	591 693 300 33 554 4583 716 264 448 21 446 10784 3015	50st 50st CA 50st 50st 50st 50st CA 50st 50st 50st 50st	22,448
NISSAN/INFINITI	R2001 /R2002	1853	V	3/11/2002	2002	Maxima, Infiniti I35	2NSXV03.5C6A	These vehicles use an electronic throttle control system that includes an accelerator position sensor. There is a possibility that the accelerator pedal may "overtravel" due to the design of the pedal stopper and cause the MIL to come on for DTC P0228 and/ or P1228 (accelerator pedal sensor circuit high input). This also causes the throttle control system to go into a failsafe mode which severely limits engine speed. <b>Remedy:</b> A new accelerator pedal stopper is being installed.	39000	CL(CA+NLEV ALLS)	39000
NISSAN/INFINITI	R2014	1981	V	10/7/2002	2003	G35	3NSXV03.5C7A	Nissan has determined that on some 2003 model year G35 sedan vehicles, there is a possibility that the fuel hose connection from the fuel pump may not have been properly attached when the vehicle was produced and could come loose while driving or when starting the engine. If the hose comes loose while driving the engine will quit and if it comes loose while attempting to start the vehicle in the presence of an external ignition source, a fire could result. <b>Remedy:</b> Nissan will inspect the connector for the outlet hose of the fuel pump to ensure it is properly secured. If it is not, it will be securely installed.	18300	CL(CA+NLEV ALLS)	18300
PORSCHE	A209	1781	V	7/1/2002	1998 1999 1999 2000 2001 2001 2002 2002 2002	Boxter Boxter, Boxter S, 911 Carrera, 911 Turbo	WPRXV02.5986 XPRXV02.5986 XPRXV03.4996 YPRXV03.4996 1PRXV03.4996 1PRXV03.4996A 2PRXV03.2996A 2PRXV03.6996 1PRXV03.6TUR	Check engine light illuminated from loose filler cap or dislodged/deformed fuel filler cap seal. The gasket sticks to the fuel filler neck and the gas cap may not completely screw into it. <b>Remedy:</b> Porsche has introduced into production a gas cap of a new design that, will eliminate the problem. Owners were notified by mail of the recall of the affected vehicles to replace the fuel filler cap with an improved design cap.	7239 13242 12902 21066 20873 same 944 28 2646	50S 50S 50S 50S CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) 50S 50S 50S	78940
SUBARU	WWF-89	1810	V	5/17/2002	2000 2001 2002 2002 2002	Legacy, Impreza, Forester	YFJXV02.5JEH 1FJXV02.5JEH 2FJXV02.5JHM 2FJXV02.5JEJ 2FJXV02.5JEH	Some 2000-2002 Subaru Legacy, and Impreza, and 2001 and 2002 Forester 2.5L AWD models may experience air-fuel ratio sensor sensitivity due to Engine Control Module (ECM) logic. (This report does not affect vehicles repaired under the Subaru Service Program WXW-80). <b>Remedy:</b> Reprogramming the ECM will broaden the allowable A/F ratio signal parameters and correct this condition.	17544 112155 6 9536 8	CL(CA+NLEV ALLS)	133249

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Mfr.	Mfr. Recall Number	EPA #	Type	Owners Notification	MY	Vehicle or Engine Class	Engine Fam.	Problem description	Affected Veh's.	Sales Area	Total number of vehicles recalled
SUBARU	WWG-90	1814	V	6/28/2002	1999 1999	Legacy 2.2L AWD, Impreza 2.2LAWD Impreza 2.5LAWD Forester 2.5L AWD	XFJXV02.5GDE XFJXV02.5HEG	Some 1999 2.2L Subaru Legacy AWD, 2.5L Forester AWD and 2.2L & 2.5L Impreza AWD models may experience an air flow meter sensor malfunction. The malfunction can occur when the sensor element is contaminated by seeping silicon oil contained in the silicon gel covering at the sensor base. The problem may occur after carbon and dust in the atmosphere combine with the silicon oil and accumulate on the sensor element. The silicon oil seepage condition results from insufficient sealing structure at the sensor element border on the base. <b>Remedy:</b> Subaru has voluntarily recalled the affected vehicles under their service campaign number WWG-90, that will involve replacement of the air flow meter sensor with an improved part.	60091 3580	FED CA	63671
SUZUKI	DG	1832	V	2/28/2002	1999 2000 2000 2000 2001 2002	Esteem	XSKXV1.84LHS YSKXV1.59TNS YSKXV1.59TNS YSKXV1.84LHS 1SKXX2.00LC4 2SKXX2.00LC4	Affected vehicles may have been assembled with insufficient clearance between the fuel tank and vehicle body panel. Insufficient clearance could lead to cracking or breakage of the nipple of the vapor control valve that is mounted on the fuel tank. <b>Remedy:</b> Suzuki dealers will measure the gap between the fuel tank and body panel on all affected vehicles. If the gap is less than the applicable inspection criterion value, the vapor control valve will be replaced. For all 1999 and 2000 model year vehicles, a pad will be installed on top of the vapor control valve.	6201 728 2185 16592 17949 6236	50S CL(CA+NLEV) FED/NLEV 50S 50S 50S	49891
VOLKSWAGEN/AUDI	WE/LK	1694	V	7/31/2002	1998 1999 2000 2000 2001	A4-2.8L (5V), A6-2.8L (5V), Passat 2.8L(5V)	WAD XV02.8324 XAD XV02.8324 YAD XV02.8324 YAD XV02.8334 1AD XV02.8334	Vacuum supply within the secondary air system is lost when the secondary air vacuum hoses disconnect from the system control valve. The rubber vacuum hose connectors split and separate from the vacuum connection on the valve due to heat dissipation in that area. <b>Remedy:</b> Authorized Audi and Volkswagen dealers have been instructed to replace the secondary air valve vacuum hoses on all affected and identified vehicles. The owners of these vehicles have been notified via mail to set up an appointment to get their vehicles serviced to correct this problem.	57980 66426 2959 47295 30905	50S CL(CA+NLEV ALLS CL(CA+NLEV ALLS CL(CA+NLEV ALLS CL(CA+NLEV ALLS)	205565
VOLKSWAGEN/AUDI	LF	1929	V	9/6/2002	2001	Audi TT	1AD XV01.8346	Incorrect emission labels were inadvertently affixed to some 2001 model year Audi TT vehicles. The vehicles have a (TLEV) label for Test Group: 1AD XV01.8336 emission label, which must be replaced by a (LEV) label for Test Group: 1AD XV01.8346. <b>Remedy:</b> Audi of America, Inc. will initiate an emission recall campaign to replace the incorrect label. Owners of affected vehicles will receive a notification letter that will include the new label, as well as instructions on how to affix the label themselves, or have an authorized Audi dealer do it for them.	2500	50S	2500
VOLKSWAGEN/AUDI	LC	1930	V	9/6/2002	2001	Audi TT, Audi TT Quattro	1AD XV01.8336	Incorrect emission labels were inadvertently affixed to some 2001 model year Audi TT vehicles. The incorrect label indicates 2000 model year instead of 2001 model year. <b>Remedy:</b> Audi of America, Inc. will initiate an emission recall campaign to replace the incorrect label. Owners of affected vehicles will receive a notification letter that will include the new label, as well as instructions on how to affix the label themselves, or have an authorized Audi dealer do it for them.	3900	50S	3900



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Recall Campaigns

Mfr.	Mfr. Recall Number	EPA #	Type	Owners Notification	MY	Vehicle or Engine Class	Engine Fam.	Problem description	Affected Veh's.	Sales Area	Total number of vehicles recalled
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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

\*For the purposes of this report only, a Recall Campaign 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 Voluntary Service Campaign 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.

Total number of vehicles voluntarily recalled: 1,149,837

Number of Recalls by type:

Ordered	0
Influenced	1
Voluntary	31

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Voluntary Service Campaigns

Mfr.	Mfr. Recall Number	EPA #	Type	Owners Notification	MY	Vehicle or Engine Class	Engine Fam.	Problem description	Affected Veh's.	Sales Area	Total number of vehicles recalled
BMW		1761	I-VSC	9/18/2002	1998	318i; 318ti; Z3	WBMXV01.9M44	Due to erosion of the expansion mat (packing material inside the catalytic converter that supports the monolith in the housing) in the 3-way catalytic converter the first, shorter monolith may become loose, which causes an irritating rattling noise prompting the driver to seek immediate repair. The second monolith is not affected. If the rattling noise is neglected over an extended period of time, deterioration of the packing material and the monolith will continue, leading to the illumination of the Check Engine light. <b>Remedy:</b> BMW has extended the warranty period of these vehicles concerning the catalytic converter from 8 yrs. / 80,000 miles to 10 yrs. unlimited mileage. BMW will replace affected catalytic converters.	15528	50S	15528

Type:

- O- Ordered by EPA
- I-VSC- Manufacturer voluntary Action with EPA Influence
- VSC- Voluntary Action by Manufacturer

Total number of vehicles voluntarily recalled: 15,528

Number of Service Campaigns by type:

I-VSC: 1  
VSC: 0

Total number of vehicles Effected by Voluntary Recalls and Voluntary Service Campaigns:

1,149,837

Total number of Influenced Voluntary Emission Recalls and Influenced Voluntary Service Campaigns:

2

Total number of Voluntary Emission Recalls and Voluntary Service Campaigns:

31

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

\*For the purposes of this report only, a Recall Campaign 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 Voluntary Service Campaign 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.