

2003 Annual Summary of Emission Related Recalls 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

2003 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 Family	Problem Description	Affected Vehicles	Sales Area	Total Number of Vehicles Recalled
BENTLEY	SC03/01	2046	V	4/5/2003	2002 2003	Arnage T; Arnage R; Arnage RL	2RRXV06.7TTC 3BEXV06.7TTC	Bentley Motors Inc. will replace a specific batch of exhaust gas temperature sensors that have the potential to malfunction and illuminate the Malfunction Indicator light (MIL), due to an improper solder joint in the sensors electronic control unit. Remedy: Replace exhaust gas temperature sensor.	178	CL(CA+NLEV ALLS)	178
BMW	03V-124	2047	V	5/5/2003	2003	325i; 325Ci; 325i Touring	3BMXV02.5M56	The potential defect involves the electronic programming of the digital engine management control unit with regard to engine idle control. With the engine running, and the vehicle at rest (i.e. after the tank ventilation diagnosis has been performed), an increase of engine idle speed (up to 1,300 rpm) may be detected by the driver. Remedy: BMW has decided to implement a safety-related Recall Campaign 03V-124 to reprogram the digital engine management control unit of the potentially affected vehicles free of charge to the customer.	1,056	50S	1056
BMW	03E-A01	2061	V	7/1/2003	2002 2003	745i, 745Li	2BMXV04.4LEV 3BMXV04.4LEV	Because of production process failures, the ignition coil of one supplier (Bremi) may have an internal insulation break-down in the primary electric circuit, the secondary electric circuit and/or a disruptive discharge. Remedy: BMW has decided to implement a Voluntary Emission Recall Campaign to replace all ignition coils with a new improved version.	18207 2121	NF(CFV+CA+NL)	20,328
BMW	03V-240	2089	V	7/8/2003	2002 2003	745i, 745Li	2BMXV04.4LEV 3BMXV04.4LEV	The potential defect involves the programming of the digital engine management control unit. Specifically, due to a software error, a desynchronization of the valvetronic motors for engine banks 1 and 2 may occur. If this occurs, it would cause a rough-running engine. If this happens, the check engine light will illuminate, and the message "engine malfunction, Drive with moderation" will appear in the vehicle's instrument cluster message display area. In certain extreme cases, the engine could stall. In those cases, the Driver may not be able to restart the engine. Remedy: BMW has decided to implement a safety-related Recall campaign 03V-240 to reprogram the digital engine management control unit.	3840 1630	NF(CFV+CA+NL)	5470
DAIMLER/CHRYSLER	C15	2048	V	5/5/2003	2003	Jeep Liberty	3CRXT02.43D0 3CRXT03.72Z0	Certain 2003 Model Year Jeep Liberty vehicles were manufactured with fuel pump module components that did not conform to tolerance specifications required of the part supplier. The resulting increase in fuel system pressure may lead to increased exhaust emissions. Remedy: DaimlerChrysler will conduct a Voluntary Emission Recall (C15) of the suspected vehicles and replace the fuel pump module if it is determined to be part of the affected population.	619	CL(CA+NLEV ALLS) 50S	619
DAIMLER/CHRYSLER	C23	2090	V	10/6/2003	2003	Concorde; 300M; Intrepid	3CRXV03.5VD0	Some 2003 model year Chrysler Concorde, 300M, and Dodge Intrepid vehicles have Vehicle emission Control Information (VECI) labels which retained the vacuum operated Secondary Runner Valve (SRV) schematic from the 2002 model year. The 2003 model year SRV is electrically operated. Remedy: A new VECI lable will be sent to the vehicle onwner. Owner can have dealer install label. The 2003 service manual, now available on their service information website, shows the SRV in its proper place on the manifold with the proper electrical connections.	21,386	CL(CA+NLEV ALLS)	21386

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DAIMLER/CHRYSLER	C06	2123	V	8/10/2003	2001 2002 2002 2003	Sebring/Stratus Coupe Sebring/Stratus Coupe Sebring/Stratus Coupe Sebring/Stratus Coupe	1DSXV03.0GNG 2DSXV03.0GNS 2DSXV03.0GNF 3DSXV03.0GNS	The vacuum hose routing diagram on affected vehicles is incorrect. Due to an update in the purge solenoid valve made in model year 2001(2000 MY for Eclipse and Galant models) and the position of the pins to the surge tank and charcoal canister, the routing for the vacuum hoses changed. However, the label indication the proper hose routing was inadvertently left the same. Remedy: A corrected VECI label was sent directly to owners with instructions on where to install the new label. The owner may also have the label installed by their dealership as stated in the Technical Service Bulletin.	41090 11977 13244 5670	CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS)	71981
DAIMLER/CHRYSLER	C27	2132	V	9/9/2003	2003	Dodge Viper	3CRXV08.3VB1	The fuel pump wiring harness on early build 2003 Model Year Dodge Vipers may become chafed by the fuel tank heat shield. Remedy: DaimlerChrysler will conduct a Safety Recall (C27) to install a protective covering on the fuel pump wiring harness and rubber tubing around the inner edge of the heat shield hole.	69	50S	69
GENERAL MOTORS	1038	1645	V	4/21/2003	1996	W Platform	TGM3.4VJGFEK	Corrosion of the solenoid internal to the AIR pump may cause failure of the AIR system. When the solenoid is activated during normal operation, the AIR pump air is allowed to flow into the engine. High exhaust backpressure may cause moist exhaust gas to enter the AIR pump. The moisture can lead to corrosion of the solenoid. When corrosion causes the solenoid to fail, the AIR pump air is not allowed to flow into the engine. Remedy: Replace the air pump solenoid.	40,632	50S	40632
GENERAL MOTORS	3005	2035	V	3/30/2003	2002 2002 2003	Seville, DeVille, Eldorado, Aurora	2GMXV04.6065 2GMXV04.6066 3GMXV04.6065	Affected vehicles may experience a loss of signal from the Powertrain Control Module (PCM) to the ignition coils. Because the PCM drivers for the ignition coils are done via 2 driver chips for the eight coils, a misfire condition may occur in groups of four cylinders (1-7-4-6- or 2-3-5-8). The condition is due to an incoherency between the PCM hardware and software. Remedy: Revised software that corrects for the loss of PCM output to the ignition coils has been incorporated into production. General Motors will initiate a Voluntary Emissions Recall to install the revised software into the affected vehicles.	126495 875 56985	50S	184355
GENERAL MOTORS	3048	2149	V	9/30/2003	2004	Malibu	4GMXV03.8041	OBD system will become disabled above 25-35 MPH due to an invalid rough road input to the PCM. Remedy: Vehicles will be recalled and reprogrammed to correct this condition.	1683	FC(Tier2 Fed&Cal)	1683
HONDA/ACURA	PUV-02-022.00	1957	V	5/23/2003	2000 2000 2001 2001 2001 2002 2002 2002 2002 2003 2003 2003 2003	3.2TL 3.2TL 3.2CL 3.2TL; 3.2CL 3.2TL; 3.2CL 3.2TL; 3.2CL 3.2TL; 3.2CL 3.2TL; 3.2CL 3.2TL; 3.2CL 3.2TL; 3.2CL 3.2TL; 3.2CL 3.2TL; 3.2CL 3.2TL; 3.2CL 3.2TL; 3.2CL 3.2TL;	YHNXV03.2GF3 YHNXV03.2GL4 1HNXV03.2H7A 1HNXV03.2K88 1HNXV03.2K5U 2HNXV03.2X21 2HNXV03.2HYT 2HNXV03.2JYC 3HNXV03.2AYC 3HNXV03.2BYT 3HNXV03.2CYC	Under certain driving conditions, 3rd gear clutch disks of an automatic transmission may be damaged due to high temperature. This results in insufficient engagement of clutch. The causes of failure are inappropriate calibration of the powertrain control module and insufficient quality of some clutch plates. The MIL may illuminate. Remedy: PCM is replaced with new recalibrated unit to improve performance and durability. Customers who received a remanufactured transmission without a new PCM will be notified by letter to contact an Acura dealer.	34051 33236 23165 26760 23614 20801 14320 31525 35614 12367 35430	NL(NLEV ALLS) CL(CA+NLEV ALLS NL(NLEV ALLS)) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS)	290883
HONDA/ACURA	V-03-001-00&V-03-001-01	2031	V	1/28/2003	2003	Odyssey	3HNXT03.5ZAP	Some fuel tanks were manufactured with surface imperfections that could allow fuel to leak from the tank. Remedy: The fuel tank will be inspected and if found to show surface imperfections the tank will be replaced.	8,847	50S	8847

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HONDA/ACURA	PUV-03-003-00	2070	V	8/26/2003	2003	Accord	3HNXV02.4JBP 3HNXV02.4KCP	Under certain driving conditions, the connecting pipe for Positive Crankcase Ventilation may be disconnected between the cylinder head cover and the air flow tube. For test group 3HNXV02.4KCP, the MIL may also illuminate. Remedy: Improved connecting pipe and rubber tube will be applied to the assembly line. Honda will notify owners to bring vehicle into dealership to replace with new components free of charge.	211474 29243	50S	240717
HYUNDAI	60	2086	V	6/30/2003	2001 2002 2003	Elantra Elantra Tiburon	1HYXV02.0X4C 2HYXV02.0XUC 3HYXV02.0CUC	The underhood emission control system label is in error citing an incorrect in-use emission standard. Remedy: Hyundai will send a recall letter instructing owner to install a new (VEC) label enclosed with this letter. Owner can take to a dealer for installation.	8055 7,724 1,228	CA CA CA	17007
KIA	SC021	2032	V	3/28/2003	2001 2002	Optima	1KMXV02.5D01 2KMXV02.7E01	During the vehicle production period from 9/9/2000 through 8/17/2000, improperly manufactured Crankshaft Position Sensors were installed in some Optima models equipped with 2.5 and 2.7L V-6 engines. The cases of these components did not meet dimensional specifications, Epoxy flowed between the gaps within the cases and contacted the printed circuit board resulting in cracking of the circuit board capacitor. Remedy: Replacement of the Crankshaft Position Sensor.	8107 3375	50S	11482
LAND ROVER	B112	2111	V	10/24/2003	1997 1998	Discovery Discovery	VLR4.058GFFK WLRXT04.6001	Right hand exhaust manifolds are being replaced in the field due to noise complaints from the vehicle owners. The manifolds are cracking due to being subjected to excessive mechanical stress caused by thermal cycling of the cast iron. Remedy: A change to the material specification of the manifold was introduced during the 1998 MY that reduces the shrinkage and hence its susceptibility to failure. Land Rover will send a recall letter to owners of the affected vehicles of a service action to replace the manifold on vehicles manufactured during the build period with the current design.	9706 11,930	CA 50S	21636
MAZDA	1303F	2024	V	7/16/2003	2003 2003 2003 2003 2003	Mazda 6 Mazda 6 Mazda 6 Mazda 6 Miata	3TKXV02.3CJM 3TKXV02.3EJ1 3TKXV03.0CLM 3TKXV03.0EL1 3TKXV01.8CJA	During evaporative leak monitoring immediately after IG key off, change in the electrical load such as keyless entry use may affect the monitoring system. This may result in the rapid rise in the electrical load of Diagnostic Module for Tank Leakage (DMTL) pump and, thus causes the Malfunction Indicator Light (MIL) illumination since the same phenomenon is detected by the blockage in DMTL system. Remedy: The Powertrain Control Module will be replaced with a modified unit.	12900 4,700 5,800 2,300 10,500	CA+NF(CFV+CA+NL) CA NF(CFV+CA+NL) CA NF(CFV+CA+NL)	36200
MITSUBISHI/D-STAR	EMR-003-001	2069	V	9/24/2003	2003 2003	Evolution Outlander	3MTXV02.0GTS 3MTXT02.4GNG	Water may enter the front floorboard area from openings in the side sill or upper dash area. This water may collect under the seat and cause electrical corrosion to occur in the harness connector that contains the wiring for the rear oxygen (O2) sensor. In a worst-case scenario, the floor harness connector when subjected to water intrusion may result in inoperability or malfunction of the O2 sensor. Remedy: The Outlander will be subject to a safety recall that affects the harness to the stop lamps and seat belt pre-tensioner as well. Those vehicles will have their rear O2 sensor harnesses inspected for corrosion at the same time as the stop lamps and seat belt pre-tensioner harnesses are inspected under the safety recall. A separate recall letter will be sent to owners of affected Lancer Evolution vehicles for the O2 sensor harness corrosion problem. Corroded components will be replaced.	2764 43649	CL(CA+NLEV ALLS) CL(CA+NLEV ALLS)	46413

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NISSAN/INFINITI	R2013	1851	V	1/15/2003	2002	Xterra	2NSXT03.3C5A	Under high engine load after a cold start during cold ambient temperature, there is a possibility that the MIL will come on for DTC P0103 (Airflow Meter High). This condition can occur because the voltage level generated by the air flow meter under these conditions is higher than originally expected. Remedy: The electronic control module will be reprogrammed to prevent this incident from occurring.	5000	CL(CA+NL)	5000
NISSAN/INFINITI	R2020	2007	V	1/15/2003	2001 2001 2001	Frontier 2WD Xterra 2WD Frontier 2WD;Xterra 2WD	1NSXT02.4C4A 1NSXT02.4C4B 1NSXT03.3C5A	2001 MY Nissan Frontier and Xterra vehicles produced from October 29, 2000 to January 13, 2001. The vehicles produced during this time period may have a fuel tank inlet shutter valve that does not meet the sealing performance specification. Remedy: Nissan will replace the fuel tank inlet shutter valve with a new one.	44,000	CL(CA+NLEV ALLS)	44000
NISSAN/INFINITI	03V-084	2056	V	5/1/2003	2002 2002	Altima; Sentra SentraSE Spec V	2NSXV02.5D5A 2NSXV02.5C5A	Certain engine operation conditions may cause the pre-catalyst to overheat and damage the catalyst substrate. If substrate particles enter the combustion chamber via combustion pulses on lengthy deceleration, they may score the cylinder walls, resulting in increased oil consumption. If the engine oil is not checked on a periodic basis as specified in the Owner's Manual and drops below the low level, and the driver continues to operate the vehicle ignoring noticeable engine noise, engine damage may occur which could result in a fire. Remedy: The protruding portion of the exhaust pipe hanger pin will be removed. Heat shield(s) will be installed on the pre-catalyst and exhaust tube.	171722 8,926	CL(CA+NLEV ALLS) CL(CA+NLEV ALLS)	180648
SUBARU	WWO-98	2129	V	8/28/2003	2004 2004	Legacy, Outback Legacy, Outback	4FJXV02.5NKR 4FJXV02.5MJS	Subaru is conducting a safety recall (WWO-98) to address possible fuel leak due to a loose or out of position clamp on the fuel hose that connects the fuel filler pipe to the fuel tank. Remedy: All potentially affected 2004 MY vehicles that were shipped previous to the identification of this problem will be inspected and, if necessary, repaired at no cost to the owner.	7,874	CA FED	7874
TOYOTA/LEXUS	30B&SSC-30B	2038	V	4/4/2003& 4/4/2003	2002 2002 2003 2003	Celica Celica Celica Celica	2TYXV01.8DDB 2TYXV01.8DDC 3TYXV01.8FFB 3TYXV01.8DDC	A check valve installed at the lower end of the fuel filler pipe at the fuel tank prevents fuel back flow from the tank when the refueling operation is completed. Due to improper assembly of the check valve, a condition may occur where the valve may fall off into the tank during refueling and fuel spill out (spit back) occurs when the auto-stop mechanism of the gas pump nozzle is activated. Remedy: Safety recall. Toyota dealers will inspect the fuel tank to evaluate if the check valve has moved and if so will replace the fuel tank.	6959 1627 5,467 995	CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS)	15048
TOYOTA/LEXUS	30C	2059	V	5/15/2003	2003	4Runner	3TYXT04.0FFP	There is a pulsation damper installed at the end of the fuel rail to reduce fuel pulsation generated by fuel injection. During the manufacturing process of this pulsation damper, a diaphragm in the damper may be damaged resulting in a defective part. If a defective damper is installed in a vehicle the possibility exists that fuel could leak from the pulsation damper into the engine compartment. Remedy: A voluntary safety recall has been conducted on the subject vehicles to replace the pulsation damper.	29,482	CE(CA+NLEV)	29482

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TOYOTA/LEXUS	3LE	2087	V	7/7/2003	2004	RX330	4TYXT03.3PEM	For the exhaust manifold converter sub-assembly, a mat is wrapped around the catalytic converter substrate to secure the substrate in place within the assembly. Due to improper installation of the mat during converter assembly, the catalytic converter substrate can slide and contact the sides of the steel converter shell resulting in an objectionable buzzing noise. Remedy: Toyota will conduct a "Special Service Campaign" of the subject vehicles by a notification recall letter, to bring the vehicle in for replacement of the converter assemblies at no cost.	12,500	50S	12500
TOYOTA/LEXUS	3OI/3LF	2121	V	8/1/2003	2003	LS430, GS430, SC430	3TYXV04.3HHA	An electrical contact inside the throttle body motor may be inadequate and cause a malfunction. If this malfunction occurs, the MIL will illuminate (P2101/P2119) on the dash and the engine ECM will store a trouble code, and place the vehicle into a "limp-home" mode. Remedy: Toyota will conduct a Special Service Campaign of the subject vehicles, by a recall notification letter to bring the vehicle in for inspection and/or replacement of the throttle body assembly at no cost.	2,930	CL(CA+NLEV ALLS) 50S NL(NLEV ALLS)+CA CL(CA+NLEV ALLS) 50S NL(NLEV ALLS)+CA 50S CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) NL(NLEV ALLS)+CA	2930
VOLKSWAGEN/AUDI	LT	1906	V	10/3/2003	1999	A8 / A8 Quattro A8	XAD XV04.2325	MIL light on - DTC code P0442 (Emission Control System - vapor leak). Audi has identified two different failure modes, which for the Audi A8 and A8 Quattro: 1) Plastic Cover Distorted which may result in a minute evaporative or fuel leak between the cover or the cover seal and the fuel tank sending unit. MIL is activated by an opening of 1mm diameter. 2) Poor sealing of Fuel Sending Unit Assembly may no longer perform its intended function of completely sealing the connection between the sending unit and the fuel tank. MIL is activated by an opening of 1mm diameter. Remedy: VW will initiate a Voluntary Emissions Recall campaign to inspect and replace all subject fuel tank sealing rings on the applicable Audi vehicles.	7,288	50S 50S CL(CA+NLEV ALLS) CL(CA+NLEV ALLS)	7288
VOLKSWAGEN/AUDI	WG	1975	V	6/13/2003	2001	A4/Passat1.8TULEV TT	1AD XV01.8342	One or more of the vehicles individual cylinder ignition coils may become inoperable, causing the engine to misfire and illuminate the Malfunction Indicator Lamp (MIL). Two separate failure modes may exist within the defective ignition coils tested, (1) Coil housing damage caused during the assembly process at the applicable VW or Audi factory, (2) Coil design shortcomings by the supplier. Part numbers involved: 06B 905 115 G, 06B 905 115 H and 07C 905 115. Remedy: An improved ignition coil, part number 06B 905 115 J, was introduced as a new service replacement part during the last week of July 2002. VW has issued a recall notification letter to bring vehicle in for replacement of the ignition coils.	66194 1777 2,771 16,476 17,157 3,657 82,297 69,829 27,316 6,078 5,319 1,416 7,010 6,628 17,049 40,070 1,942 5,501 9,364	CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS) CL(CA+NLEV ALLS)	387851

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VOLKSWAGEN/AUDI	E R Circular LZ	2130	V	12/28/2003	2003	A6/Allroad	3AD XV02.7343	An application problem exists which is associated with the location of the oxygen sensor in MY 2003 Audi 2.7L Bi Turbo engines. The pre-oxygen sensors are mounted in the outlet flange of the turbo chargers and under certain cold and damp ambient conditions; thermal shock can take place, cracking the internal ceramic element of the oxygen sensor. Remedy: Audi will remedy the problem with the start of MY 2004 production. MIL's are set when this condition is sensed by the OBD system and the 2003 vehicles are expected to be returned for service. Audi issued a recall notification letter to bring vehicle in for reset of the engine control module and to replace the oxygen sensor if necessary.	9,897	CL(CA+NLEV ALLS)	9897
Total number of vehicles voluntarily recalled:											1,723,460
Type:									Number of Recalls by type:		
O- Ordered by EPA									Ordered	0	
I- Manufacturer voluntary Action with EPA Influence									Influenced	0	
V- Voluntary Action by Manufacturer									Voluntary	30	
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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DAIMLER/CHRYSLER	C24	2133	VSC	9/22/2003	2003	Dodge Neon SRT-4	3CRXV02.4VD1	The engine oil recommended in the Owner's Manual for the 2003 Model Year Dodge Neon SRT-4 (synthetic 10W30) is not the oil used during emission certification and fuel economy testing (mineral based 5W30). Remedy: DaimlerChrysler will conduct a Customer Satisfaction Notification (C24) to mail an Owner's Manual insert with the correct engine oil recommendation (mineral based 5W30) to customers of the affected vehicles.	3,323	50S	3323
FORD	01-37D	1788	VSC	1/1/2003	2000 2000 2000 2000 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001	Taurus, Sable Taurus, Sable Taurus, Sable Taurus, Sable Taurus, Sable Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, E and F Series Trucks Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car Escape Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, E and F Series Trucks Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, E and F Series Trucks Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	YFMXV03.0VBA YFMXV03.0VBK YFMXV03.0VF3 YFMXV03.0VF5 YFMXV03.0VF9 1FMXT02.01BF 1FMXV03.8VFA 2FMXT02.01BF 1FMXT04.26BF 1FMXT04.66BA 1FMXT02.01F5 1FMXV02.0VF3 1FMXV02.0VJ3 1FMXV02.5VD5 1FMXT03.01F6	Inoperative EGR pressure sensors due to corrosion under the passivation layer, damage from voltage spikes, or mask misalignment during component manufacturing. Remedy: Owner notification program to extend the warranty coverage for the EGR pressure sensor for 2 years/24,000 miles for certain 2000 and 2001 model year vehicles.	4,024,387	FED FED 50S 50S 50S FED FED FED FED 50S 50S 50S 50S	4,024,387

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					2001	Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car	1FMXV03.0VF3			50S	
					2001	Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car	1FMXV03.0VF9			50S	
					2001	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	1FMXT04.01F5			50S	
					2001	Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car	1FMXV03.8VH5			50S	
					2001	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, E and F Series Trucks	1FMXT04.01F6			50S	
					2001	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, E and F Series Trucks	1FMXT04.02F4			50S	
					2001	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, E and F Series Trucks	1FMXT04.02F5			50S	
					2001	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, E and F Series Trucks	1FMXT04.02F6			50S	
					2001	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, E and F Series Trucks	1FMXT04.02F7			50S	
					2001	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, E and F Series Trucks	1FMXT04.22F5			50S	
					2001	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, E and F Series Trucks	1FMXT04.2HG5			50S	

2003 Annual Summary of Emission Related Recalls and Voluntary Service Campaigns Performed On Light-duty Vehicles and Light-duty Trucks*

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
					2001	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, E and F Series Trucks	1FMXT04.2JG5			50S	
					2001	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, E and F Series Trucks	1FMXT04.66F5			50S	
					2001	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, E and F Series Trucks	1FMXT04.66F7			50S	
					2001	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, E and F Series Trucks	1FMXT04.6PF5			50S	
					2001	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, E and F Series Trucks	1FMXT04.6PF6			50S	
					2001	Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car	1FMXV04.6VF5			50S	
					2001	Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car	1FMXV04.6VF7			50S	
					2001	Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car	1FMXV04.6VP5			50S	
					2001	Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car	1FMXV02.0VJ2			CA	
					2001	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, E and F Series Trucks	1FMXT04.25BF			FED	
					2001	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	1FMXT03.82J5			50S	

2003 Annual Summary of Emission Related Recalls and Voluntary Service Campaigns Performed On Light-duty Vehicles and Light-duty Trucks*

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
					2001	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	1FMXT03.82J6			50S	
					2001	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, E and F Series Trucks	1FMXT04.6JF5			50S	
					2001	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, E and F Series Trucks	1FMXT05.4PF5			50S	
					2001	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, E and F Series Trucks	1FMXT05.4RF8			50S	
					2001	Focus	1FMXV02.0VD5			50S	
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	2FMXT04.25BF			FED	
					2002	Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car	2FMXV03.8VBF			FED	
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	2FMXT04.26BF			FED	
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	2FMXT02.01F5			50S	
					2002	Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car	2FMXV02.0VF3			50S	
					2002	Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car	2FMXV02.0VF4			50S	
					2002	Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car	2FMXV02.5VD5			50S	

2003 Annual Summary of Emission Related Recalls and Voluntary Service Campaigns Performed On Light-duty Vehicles and Light-duty Trucks*

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
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	2FMXT03.01F7			50S	
					2002	Focus, Cougar, Taurus,	2FMXV03.0VF3			50S	
					2002	Focus, Cougar, Taurus,	2FMXV03.0VF4			50S	
					2002	Focus, Cougar, Taurus,	2FMXV03.0VF8			50S	
					2002	Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car	2FMXV03.0VF9			50S	
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	2FMXT03.82J7			50S	
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	2FMXT04.01F6			50S	
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	2FMXT04.02F3			50S	
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	2FMXT04.02F5			50S	
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	2FMXT04.02F8			50S	
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	2FMXT04.22H5			50S	
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	2FMXT04.22H6			50S	
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	2FMXT04.2HF5			50S	

2003 Annual Summary of Emission Related Recalls and Voluntary Service Campaigns Performed On Light-duty Vehicles and Light-duty Trucks*

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
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	2FMXT04.2JF5			50S	
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	2FMXT04.62F5			50S	
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	2FMXT04.62F6			50S	
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	2FMXT04.66F7			50S	
					2002	Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car	2FMXV04.6VF5			50S	
					2002	Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car	2FMXV04.6VP5			50S	
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	2FMXT05.4PF6			50S	
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	2FMXT05.4RF6			50S	
					2002	Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car	2FMXV02.0VJ4			CA	
					2002	Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car	2FMXV03.8VH5			50S	
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazda B-Series, E and F Series, Expedition, F Series Trucks	2FMXT02.0VF6			50S	

2003 Annual Summary of Emission Related Recalls and Voluntary Service Campaigns Performed On Light-duty Vehicles and Light-duty Trucks*

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
					2002	Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car	2FMXV02.0VJ3			50S	
					2002	Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car	2FMXV02.0VF2			50S	
					2002	Focus, Cougar, Taurus, Sable, Mustang, Crown Victoria, Grand Marquis, Lincoln Town Car	2FMXV02.0VJ4			50S	
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazca B-Series, E and F Series, Expedition, E and F Series Trucks	2FMXT03.01F6			50S	
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazca B-Series, E and F Series, Expedition, E and F Series Trucks	2FMXT04.02F6			50S	
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazca B-Series, E and F Series, Expedition, E and F Series Trucks	2FMXT05.4PF5			50S	
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazca B-Series, E and F Series, Expedition, E and F Series Trucks	2FMXT05.4RF8			50S	
					2002	Escape, Windstar, Explorer, Mountaineer, Ranger, Mazca B-Series, E and F Series, Expedition, E and F Series Trucks	2FMXT04.02F7			50S	
HONDA/ACURA	PUV-03-009-00	2071	I-VSC	8/1/2003	2003	Accord	3HNXV02.4JBP	Under certain driving conditions, evaporative canister may intake water from the drain pipe. When the charcoal absorbs a certain amount of water or the water in the canister freezes, the MIL illuminates. Remedy: Improved canister drain joint will be applied to the assembly line. Honda will notify owners to bring vehicle into dealership to replace the canister drain joint with new components of improved design.	60,748	50S	60748
HYUNDAI	V03	1741	I-VSC	3/6/2003	1998	Accent	WHYXV01.51AS WHYXV01.52GM	Vehicles have experienced abnormal exhaust seepage as a result of minor cracking of the exhaust manifold between the number one and two cylinder exhaust ports. Remedy: Hyundai has improved the manufacturing process of the exhaust manifold to ensure the thickness of the casting is increased in the problem areas and has modified the material alloy content of the exhaust manifold casting to improve durability. Warranty extended to 10 years without limitation on vehicle mileage.	23380 8792	FED CA	32172

2003 Annual Summary of Emission Related Recalls and Voluntary Service Campaigns Performed On Light-duty Vehicles and Light-duty Trucks*

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
HYUNDAI	V03	1967	I-VSC	3/6/2003	1999	Accent	XHYXV01.51XF XHYXV01.52XC	Some 1999 model year Hyundai Accents, equipped with 1.5L engines have experienced exhaust manifold cracks. The cracking may occur in certain areas of the manifold due to insufficient thickness of the exhaust manifold casting in those areas. Remedy: Hyundai has improved the manufacturing process of the exhaust manifold to ensure the thickness of the casting is increased in the problem areas and has modified the material alloy content of the exhaust manifold casting to improve durability. Warranty extended to 10 years without limitation on vehicle mileage.	18861 18618	FED CE(CA+NLEV)	37479
HYUNDAI	V01 & V02	1773	I-VSC	10/13/2003	1999 2000 2001 2001 2002 2002 2003	Sonata Sonata Sonata Santa Fe Sonata Santa Fe Tiburon	XHYXV02.52ES YHYXV02.5G2S 1HYXV02.5F2S 1HYXT02.7M3S 2HYXV02.7FLS 2HYXT02.7MLS 3HYXV02.7KLS	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: To correct this, an additional calcium coating has been applied 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. Also, Hyundai has improved the ECM logic related to the control of oxygen sensor heating. (Improvement of titanium oxygen sensor heating logic)	17344 32007 23173 37391 48657 69250 24949	50S	252771
HYUNDAI	SC026	1992	VSC	3/31/2003	2002 2003	Spectra	2KMXV01.8A05 3KMXV01.8A06	The fault determined by the OBD system is a small evaporative system leak (P0442) caused by cracking of the plastic at the nipple of the ORVR valve hose connection leading to the Roll Over Valve (ROV). The OBD system is capable of noting the cracking condition and sets the MIL with a small evaporative leak fault code. Remedy: The repair will involve a replacement of the ORVR valve with a strengthened nipple design, and a rerouting of the hose to avoid the interference. Kia will notify owners to be aware of the potential of this problem under a voluntary service campaign and will repair their vehicles at no cost to the owner.	64665 12903	CL(CA+NLEV ALLS)	77568
KIA	SC028/SC037	1915	VSC	3/28/2003 and 4/1/2004	2001	Optima	1KMXV02.5D01	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.	8,107	50S	8,107

2003 Annual Summary of Emission Related Recalls and Voluntary Service Campaigns Performed On Light-duty Vehicles and Light-duty Trucks*

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
VOLKSWAGEN/AUDI		1717	I-VSC	11/14/2003	1999	Golf, Jetta, New Beetle	XVWXV02.0222	Analysis of component parts showed the following problems: Electrical pin connectors at the air mass sensor have incorrect plating; Air mass sensor filaments were contaminated with silicone. Silicone gel seeped from the electrical housing of the air mass sensor. The following are DTC codes reported by technicians: P1 128 17536, P1570 17978, P1142 17550, P0101 16485, P1557 17965. Remedy: Extend warranty for Mass air flow sensors to 7 years or 70,000 miles. Replace air flow sensor at no charge within time and mileage limits.	59766	FED	902298
					1999	Golf, Jetta, New Beetle	XVWXV02.0227		84485	CL(CA+NLEV ALLS)	
					1999	New Beetle (1.8T)	XVWXV01.8228		3244	CL(CA+NLEV ALLS)	
					1999	Jetta, GTI (VR6)	XVWVG02.8224		10559	CL(CA+NLEV ALLS)	
					1999	Passat, Audi (1.8T)	XAD XV01.8322		52528	CL(CA+NLEV ALLS)	
					1999	NewBtle,Golf /Jetta A4	XVWXV01.9233		8827	CA	
					2000	Golf, Jetta, New Beetle	YVWXV02.0222		67383	FED	
					2000	Golf, Jetta, New Beetle	YVWXV02.0227		92946	CL(CA+NLEV ALLS)	
					2000	New Beetle (1.8T)	YVWXV01.8228		26541	CL(CA+NLEV ALLS)	
					2000	Golf, Jetta, TT (1.8T)	YAD XV01.8336		20070	CL(CA+NLEV ALLS)	
					2000	Passat, Audi (1.8T)	YAD XV01.8332		50026	CL(CA+NLEV ALLS)	
					2000	Jetta, GTI (VR6)	YVWXV02.8224		36448	CL(CA+NLEV ALLS)	
					2000	New Beetle, Golf, Jetta	YVWXV01.9233		21666	CA	
					2000	A8 4.2, A6 4.2 Quattro	YAD XV04.2335		6079	CL(CA+NLEV ALLS)	
					2000	A6 2.7 Bit, S4 Quattro	YAD XV02.7333		6903	CL(CA+NLEV ALLS)	
					2000	A6 2.7 Bit, S4 Quattro	YAD XV02.7339		8500	CL(CA+NLEV ALLS)	
					2001	Golf, Jetta, New Beetle	1VWXV02.0222		26441	FED	
					2001	Golf, Jetta, New Beetle	1VWXV02.0223		60173	CL(CA+NLEV ALLS)	
					2001	Golf, Jetta, New Beetle	1VWXV02.0226		32476	NL(NLEV ALLS)	
					2001	Golf, Jetta, New Beetle	1VWXV02.0227		14316	CL(CA+NLEV ALLS)	
					2001	New Beetle (1.8T)	1VWXV01.8229		6594	CL(CA+NLEV ALLS)	
					2001	GTI, Jetta (VR6)	1VWXV02.8224		37320	CL(CA+NLEV ALLS)	
					2001	Passat, Audi A4 1.8T	1AD XV01.8342		41802	CL(CA+NLEV ALLS)	
					2001	Passat (1.8T-170HP)	1AD XV01.8343		24392	CL(CA+NLEV ALLS)	
					2001	Golf, Jetta,New Btle,TT	1AD XV01.8346		53873	CL(CA+NLEV ALLS)	
					2001	Golf, Jetta,New Btle,TT	1AD XV01.8336		24628	CL(CA+NLEV ALLS)	
					2001	TT	1AD XV01.8347		1777	CL(CA+NLEV ALLS)	
					2001	New Beetle, Golf, Jetta	1VWXV01.9234		22535	CA	

Type:

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

Total number of vehicles VSC&I-VSC recalled: 5,398,853

Total number of vehicles Effected by Voluntary Recalls and Voluntary Service Campaigns: 7,122,313

Total number of Influenced Voluntary Emission Recalls and Influenced Voluntary Service Campaigns: 5
Total number of Voluntary Emission Recalls and Voluntary Service Campaigns: 34

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.