

TECH SOLUTIONS GUIDE

AERA INDEX

Year	Engine	Problem	Page #	
1993-2002	2.5L Ford/Mazda VIN B & KL	Main bearing housing bore caution	2	FORD MOTOR CO.
2001-2006	3.0L Ford VIN S	Engine ticking noise	2	
2000-2006	4.0L Ford VIN E & K	Balance shaft timing procedures	2	
1997-2002	4.0L Ford VIN E & K	Revised valve springs	4	
1985-2003	4.2/5.0L Ford	Crankshaft thrust face failures	4	
1993-1996	4.6L DOHC Ford VIN V	Lower intake manifold installation	5	
1991-2006	4.6/5.4L VIN 9,W, X, Y & L	Timing chain link identification	6	
1997-2005	5.4L VIN L	Broken exhaust manifold studs	6	
2003-2004	6.0L Navistar/International	Revised upper oil pan assemblies for diesel engines	6	GENERAL MOTORS
1998-2003	7.3L Ford VIN F diesel	High pressure oil pump leakage	7	
2000-2003	2.2L GM VIN D & F	Revised timing chain design	8	
1994-2003	2.2L GM VIN 4	Timing component positioning information	8	
1993-2005	3.1/3.4L GM VIN E, J, M & S	Alternative cam bearing availability	8	
2003-2004	3.2L GM VIN N	Oil leaking from camshaft	10	
1998-2003	3.5L GM VIN H	Cylinder head installation	10	
2004-2005	3.5L GM VIN 6	Revised valve spring to cure "check engine light"	11	
1994-2000	3.8L GM VIN 1, K & L	Cooling system caution	12	
1996-2002	5.7L GM VIN R	Cylinder boring caution	13	
1997-2006	4.8/5.3/5.7/6.0L GM	Crankshaft balancer caution	14	CHRYSLER
1999-2006	6.0L GM VIN U	Cylinder boring caution	15	
1995-2004	2.0L Chrysler/Mitsubishi VIN Y	Bedplate sealant use on non-turbo engines	16	
1997-2005	2.7L Chrysler VIN R, U & V	Sudden loss of oil pressure	16	
1998-2004	3.2/3.5L VIN J, G, K, M & V	Revised valve spring availability	20	
1993-2006	3.3L/3.8L Chrysler	Connecting rod caution	20	
2001-2002	3.3L/3.8L Chrysler VIN 3, R & L	Engine vibration complaints and identification	21	
1999-2004	4.0L Chrysler/Jeep VIN S	Cylinder head cracks	22	
1995-2005	8.0L Chrysler VIN W	Crankshaft main bearing availability	23	IMPORT
2005-Newer	All Chrysler engines	Engine oil quality and grade recommendations	23	
1996-1999	1.8L VW/Audi AEB	Revised camshaft sprocket bolt torque	24	
1990-2006	Suzuki engines	Water pump coolant leaks	24	
2001-2005	2.0/2.3L Mazda	Crankshaft pulley replacement caution	26	
1994-2005	Kia engines	Valve timing interference chart	27	
1991-1998	2.4L Nissan KA24DE	Camshaft identification	24	
2004	2.4L Mitsubishi SOHC	Valve lash and camshaft identification	28	
2001-2002	2.7L Hyundai	Revised crankshaft sensor information	28	DIESEL
1993-1995	4.0L BMW M60	Main bearing cap bolt caution	29	
All	3208 Caterpillar	Cylinder block deck cracks	30	
1998-2006	5.9L Cummins	Cracked valve seats on 24-valve engines	30	
2001-2006	6.6L GM Duramax	Injector sleeve installation information	32	
2000-2003	7.3L Ford/Navistar	Revised connecting rod information	32	
2000-2003	7.3L Ford/Navistar	Revised lower thrust main bearings	33	
All	1011 Deutz	Head gasket selection	34	
1998-2006	12.0L Mack E7/E-Tech	Liner shim selection and use information	35	
1986-2006	11.1/12.7/14.0L Detroit	Upper bore repair for DDC 60 series engines	35	
All	12.7L Detroit Series 60	Iron piston failures	36	