			Repair
Mileage	Date	Work done	Cost
238,250	1/15/2009	Purchased car in CA	
238.350	3/21/2009	Cruise control not working. Replaced cruise control amplifier with good used unit (\$20).	\$20
238,350	3/22/2009	Swapped in temporary known-good injection pump - cured rough idle & smoking, runs smooth now.	\$0
238,350	3/22/2009	Replaced intake manifold gaskets (\$15). Valve cover gasket leaking, replaced with new OE (\$20), degreaser (\$10)	\$45
238,350	3/27/2009	Pressure washed engine & tranny at car wash (\$15)	\$15
238,350	3/27/2009	Transmission fluid level low, tranny leaking. Added bottle of Trans-X (\$10).	\$10
238,350	3/27/2009	LCD temp display bad. Replaced with new 5-pin style LCD display (\$35)	\$35
238,350	3/27/2009	Replaced climate control pushbutton unit with good used one (\$50)	\$50
238,933	3/30/2009	Trip odometer bad (clicking). Replaced speedometer, adjusted mileage to match. Upgraded cluster housing to new style. (\$50 total)	\$50
239,100	4/7/2009	Replaced dash speakers (\$5), replaced fader switch (\$5)	\$10
239,195	6/3/2009	Replaced wiper motor with good used one (\$20). Lubed HVAC fan motor with ATF, cleaned evaporator fins.	\$20
239,260	6/9/2009	Replaced steering shock, new OEM part (\$30)	\$30
239,395	6/20/2009	Replaced both evaporator drain tubes (\$15), replaced kickdown switch under accelerator pedal (\$14), repaired central lock system (broken +12V wire).	\$30
239,395	6/20/2009	Replaced driver's door window channel felt seal, it was causing wind noise (\$56). Repaired driver's door panel, attached pocket with screws.	\$56
239,395	6/20/2009	Leaks at transmission: Replaced B2 piston cover seal (\$4), B1 reaction valve piston seals (\$3), kickdown solenoid seals (\$3).	\$10
239,400	6/21/2009	Replaced rear wheel carrier support joints (\$43), they were visibly worn. Adjusted parking brake shoes & cable.	\$43
239,400	6/21/2009	Inspected brakes: Front discs 20.40mm (40%, min=19.4, new=22.0), pads ~80%. Rear discs 8.80mm (90%, min=7.3, new=9.0), pads ~80%.	\$0
239,525	6/27/2009	Installed cylinder-style foam seat boosters for passenger front seat (\$10). Tightened rear cargo net elastic strap, cleaned seat & plastic trim.	\$10
239,575	7/15/2009	Bought studded snow tires & wheels from previous owner (\$120). Stock 1987 wheels, tires are 225/60/15 (wrong size - should be 195-65-15)	\$120
239,625	8/3/2009	Installed late-style foam seat boosters for driver front seat (\$17). Tightened rear cargo net elastic strap, cleaned seat & plastic trim.	\$17
239,625	8/3/2009	Cleaned main carpet (\$10 for cleaner, etc). Replaced B-pillar lower trim panels (\$10).	\$20
239,625	10/5/2009	Checked engine mounts (measure 14mm and 16mm, L & R)	\$0
239,625	10/6/2009	Replaced injection pump (225kmi on pump, bought from David Hendy for \$225 shipped), fully re-sealed pump & replaced delivery valve seals (\$35)	\$260
239,675	10/8/2009	Lubricated both rear door check straps, tightened all bolts	\$0
239,675	10/8/2009	Replaced both rear window regulators with good used regulators (\$25 each). Repaired broken wire in left rear door jamb.	\$50
239,675	10/8/2009	Replaced both rear door panels, the arm rest plastic hooks were broken, installed good used panels	\$50
239,675	10/9/2009	Replaced driver window regulator guide rail (\$5). Lubricated both front window mechanisms, tightened both front door panel arm rests & pockets.	\$5
239,675		Replaced rear speakers with stock, replaced rear speaker grilles (\$10), replaced driver rear C-pillar cover & first aid kit cover (\$15)	\$25
239,675		Replaced all HVAC vacuum actuators (\$100), dash side + center vents (\$20), dashboard (\$15), and center console (\$15) with good used items	\$150
239,675		ELR system not maintaining steady idle. Swapped in a different ELR actuator from spare IP (\$20).	\$20
239,850		More tranny leaks: Replaced & adjusted Bowden cable (\$25) and O-ring (\$2), re-sealed secondary pump (\$10), replaced governor cover O-ring (\$3).	\$40
239,875		Replaced console wood, ashtray, and ACC wood with good used pieces (\$75).	\$75
239,925		Replaced tranny tunnel carpet with good used carpet - almost looks like new (\$75 shipped)	\$75
239,925		Replaced rearmost roof trim clips (\$5). Replaced damaged front grille with good used grille (\$45)	\$50
239,925		Replaced JVC radio (CD player not working, volume knob flaky) with good Blaupunkt radio (\$50)	\$50
240,150		Pressure tested cooling system, held approx 18psi pressure with no visible leaks or coolant loss.	\$0
240,150		Fuel gauge erratic. Tested gauges, both fuel & temp gauge had zero damping. Replaced with good 1993 gauge pod & swapped faceplate (\$75)	\$75
240,150		Changed oil & filter: 8 quarts Mobil Delvac-1300 15W-40 (\$18), OEM filter (\$10), new O-rings for filter center shaft (\$2).	\$30
240,150		Replaced leaking headlight washer pumps (\$20), new grommets (\$2).	\$22
240,150		Lubricated driver's door check. Replaced center muffler hanger (\$4). Replaced four transmission line clamp rubber grommets (\$6).	\$10
240,165	1/1/2010	Replaced front crankshaft seal (\$10). While radiator was out, blew radiator & condenser clean with compressed air.	\$10
240,165	1/2/2010	Replaced original 1987 vacuum pump with new style, dated 2003, with enclosed bearing (\$100). New metal gasket (\$10).	\$110
240,220	1/8/2010	Changed transmission fluid & filter: Meyle filter & gasket (\$20), 7 quarts Dexron-III ATF (\$20). Drained torque converter too.	\$40

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240,220	1/8/2010	Flushed brake fluid with pressure bleeder. 1 quart of Valvoline Synthetic DOT4+ brake fluid (\$10)	\$10
240,220		Rebuilt sunroof mechanism: Disassembled, cleaned lift arms & tracks, replaced all felt pads (\$75), lubed with factory Gleitpaste lubricant.	\$75
240,220	1/9/2010	Sunroof wind deflector had broken tab. Replaced with good used deflector (\$25).	\$25
240,220		Replaced visor trim panel (\$20), driver's side sun visor (\$10), center visor (\$5), and both A-pillar trim panels (\$15).	\$50
240,270		Flushed cooling system. Refilled with 1 gallon of Mercedes anti-freeze (\$15), 1.5 gallons of water. Relocated afterglow temp sensor to proper location.	\$15
240,270		Replaced primary spin-on fuel filter (\$10)	\$10
240,270		Replaced headlight wipers (\$5), tightened 2 head bolts above chain tensioner, cleaned engine compartment.	\$5
241,050		Fuel gauge erratic below 1/4 tank. Replaced with good used sending unit (\$40), gauge works correctly now	\$40
241,475	7/24/2010	Recharged AC system (was empty). Pulled deep vacuum for 1 hour. Added 1 can ProSeal, 1 can Stopleak, 2 cans (12 oz total) ES-12a refrigerant (\$95)	\$95
241,860	8/11/2010	Replaced air filter (\$15, OEM Mann filter). Replaced SRS and A/C decals on upper radiator support (\$10).	\$25
243,110		Replaced wiper blade refill with new OE/dealer blade (\$10). Replaced cruise amplifier, operation was intermittent (\$30)	\$40
243,600		Replaced ignition lock with brand new VIN-coded cylinder, included with car at purchase in 2009. Cylinder also includes new master key.	\$0
243,600	12/26/2010	Replaced serpentine belt with new Conti, included with car at purchase in 2009. Oil filler cap slightly cracked, replaced cap (\$5).	\$6
243,662	1/5/2011	Alignment at dealership (Lyle Pearson Co., Boise, Idaho). All adjustments in spec, got copy of printout from alignment computer.	\$100
		Total:	\$2,234
MAINTE	NANCE S	UMMARY	
228,924	8/6/2007	Differential lube changed	
240,150		Oil & filter changed	
240,220		Flushed brake fluid	
240,220	1/8/2010	Transmission fluid & filter service	
240,270	1/15/2010	Flushed cooling system	
240,270	1/15/2010	Replaced fuel filter	
241,800	8/11/2010	Replaced air filter	
245,000		Oil & filter change due (5kmi interval)	
270,000		Transmission service due (30kmi interval)	
270,000		Fuel filter change due (30kmi interval)	
270,000		Air filter replacement due (30kmi interval)	
290,000		Differential lube change due (60kmi interval, needs 1.1 liters of gear oil)	
	Spring 2012	Brake fluid flush due (2-year interval)	
	1 0	Cooling system service due (5-year interval)	

	Odometer	Miles	Gallons		
Date filled up	Mileage	traveled	used	MPG	Comments
3/29/2009	238,410	N/A	15.8	N/A	First fillup.
3/30/2009	238,689	279	10.6	26.3	Safeway (Lincoln). From CA to Winnemucca. Filled before reserve.
4/9/2009	239,185	492	16.8	29.2	Shell (Winnemucca). NV to Boise, around town. Rsv @ 465.
10/7/2009	239,672	487	16.9	28.9	Sinclair (Caldwell). Around town. Rsv @ 465.
12/29/2009	240,158	488	17.6	27.8	Shell (Middleton). Around town. Rsv @ 452.
2/11/2010	240,624	478	17.1	28.0	Shell (Middleton). Around town. Rsv @ 448.
5/10/2010	241,094	470	16.4	28.6	Shell (Middleton). Around town. Rsv @ 459.
7/28/2010	241,598	504	17.3	29.2	Shell (Middleton). Around town. Rsv @ 465.
8/30/2010	242,063	465	17.2	27.1	Shell (Middleton). Around town. Rsv @ 433.
10/8/2010	242,407	344	13.2	26.1	Chevron (Garden City). Around town.
10/22/2010	242,772	365	15.2	24.1	Chevron (Nampa). Around town.
11/13/2010	243,088	316	13.2	23.9	Chevron (Nampa). Around town.
12/13/2010	243,525	442	17.1	25.8	Chevron (Nampa). Around town.
					Phillips 66 (Meridian). Around town.
	TOTAL:	5,130	204		
	AVERAGE:	427	15.7	27.2	

Mileage	Date	Work done	Cost				
143,204	8/26/2002	Oil & filter change - Delo 15W-40					
148,000	?	Oil & filter change					
153,233	?	Oil & filter change - Rotella-T 15W-40					
158,132	1/9/2003	Oil & filter change					
161,389	3/16/2003	Oil & filter change - Delo 15W-40					
164,400	5/8/2003	Oil change - Delo 15W-40					
164,400	5/9/2003	Front brakes					
165,400	6/7/2003	Intake manifold gasket replaced, "A/C man" (manifold hose??), fuel injection pump reseal - German Car repair shop	\$820				
165,800	6/15/2003	Steering gearbox - German Car repair shop (not sure if this was replaced, or re-sealed)	\$300				
167,900	7/12/2003	Oil & filter change - Delo 15W-40					
167,944	7/13/2009	Tires	\$300				
170,871	8/16/2003	Oil change - Delo 15W-40					
174,348	1021/03	Oil & filter change - Delo 15W-40					
177,988	12/21/2003	Oil change - Delo 15W-40					
177,988	12/21/2003	Replaced wiper blade, fuel filter, air filter	\$32				
179,830	1/16/2004	Re-packed wheel bearings, new Balo front brake rotors, new Ate rear rotors, new Textar pads front & rear, flushed brake fluid with Ate SL fluid					
179,853	1/16/2004	New serpentine belt, tensioner, and pulley					
179,853	1/16/2004	Flushed cooling system (new Mercedes antifreeze), replaced plastic reservoir tank, replaced coolant level sensor					
182,182	2/18/2004	Oil & filter change - Delo 15W-40					
182,182	2/18/2004	New steering shock, new idler arm bushing - German Car repair shop	\$120				
185,690	3/25/2004	Oil change - Delo 15W-40					
190,017	5/17/2004	Oil & filter change - Delo 15W-40					
193,679	7/3/2004	Oil change - Delo 15W-40					
194,685	8/9/2004	Transmission service (fluid & filter)					
194,685	8/9/2004	New injector lines, bushings, and clamps / clips - German Car repair shop	\$300				
194,850	8/xx/2004	1994 E320 wheels with 2 new front tires, 2 used rear tires					
198,131	9/12/2004	Oil & filter change - Delo 15W-40					
198,131	9/12/2004	Replaced all three throttle linkage rods with metal type					
201,852	11/7/2004	Oil & filter change - Delo 15W-40					
201,852	11/7/2004	New front brake rotors & pads, adjusted RF wheel bearing	\$220				
201,852	11/7/2004	New OVP (over voltage protection) relay	\$60				
205,224	1/1/2005	Oil change - Delo 15W-40					
205,224	1/1/2005	New OE front wheel bearings	\$100				
210,272	5/30/2005	Oil & filter change - Delo 15W-40					
213,000	10/28/2005	New timing chain, rails, tensioner, 12 new hydraulic lifters - German Car repair shop	\$800				
213,123	11/11/2005	Alignment and ??? (not detailed on records)	\$349				
214,486	2/5/2006	Oil & filter change - Delo 15W-40					
218,080	4/23/2006	Oil change - Delo 15W-40					
219,407	7/7/2006	Added external aux fan fuse holder. New serpentine belt, throttle cable, and windshield					
219,407	7/7/2006	New fan clutch & radiator					
219,600	7/8/2006	Oil & filter change					
222,893	12/9/2006	Oil & filter change - Delo 15W-40					
226,279	3/14/2007	Oil & filter change					
226,279	3/14/2007	New front brakes, brake fluid flush, replaced injectors, replaced fuel filters, power steering flush, power steering filter					
226,279	3/14/2007	Flushed power steering system, replaced power steering filter and hoses, new fuel filters					
228,000	6/26/2007	Replaced fuel lines in engine compartment, and below fuel tank. Replaced coolant hoses and heater hoses.					
228,924	8/6/2007	Oil & filter change					
228,924	8/6/2007	Transmission service (fluid & filter)					
228,924	8/6/2007	Differential gear oil change (90W)					
235,132	3/21/2008	Oil & filter change					
		Water pump + housing also replaced - paperwork missing. Upgraded to OM606.962 water pump + housing.					
			fotal: \$3,40				