j:

TORQUE VALUES

Lubricants/sealants have been specified in certain applications for assembly purposes.

- * These bolts must have threads coated with Loctite 572 prior to assembly. For this purpose it is necessary to use an approved dispenser to apply the sealant/lubricant to the first three threads of the
- ** These bolts must have threads coated in lubricant EXP16A (Marston Lubricants) prior to assembly.
- * These bolts must have threads coated in sealant Loctite 270 prior to assembly.

It is essential that all bolts are securely tightened and it is imperative that the correct torques values are adhered to.

COOLING SYSTEM Oil cooler pipes.	N m 26-34	ft lb 19-25	in lb
Radiator filler plug (plastic)	5-6	17-23	45-54
radiator line: plag (plastic)	3-0		10 01
EMISSION CONTROL			
Lamda sensor	2 0	1 5	
ENGINE			
Adaptor plate to crankshaft	77 • 90	57 • 66	•
Alternator mounting bracket to cylinder head	3s • 43	26 • 32	•
Alternator to mounting bracket	22 • 28	16 • 21	•
Alternator to adjusting link	22 • 28	16 • 21	-
Chainwheel to camshaft	54 • 61	40 ■ 45	
Connecting rod bolt	47 • 54	35 • 40	
· ·			
Cylinder head:			
Outer row	54 • 61	40 • 45 •	
Centre row	88 • 9s	65 • 70 •	
Inner row	88 • 95	65 • 70 •	
Damper to crankshaft	257 • 285	190 • 210	
Distributor clamp nut	19 22	14 • 16	•
Drive plate to converter	35 42	25-30 • ⊠⊚	•
Engine mountings to engine and chassis	52	3 8	-
Engine mounting rubbers to brackets	17 -22	13 16	
Exhaust manifold to cylinder heads.	19 • 22	14 16	
Fan to viscous unit	26 • 32	19 24	
Flexible drive plate to crankshaft adaptor plate	35 • 46	26-34 • ⋈⋈	
Intake manifold to cylinder heads	34 • 41	25 • 30	
Lifting eye to cylinder heads	35 43	26 • 32	
Main bearing cap bolts	68 • 75	SO-55 **	
Main bearing cap rear bolts	88 • 95	65-70 **	•
Manifold gasket clamp bolt	14 • 20	10 • 15	•
Oil pump cover to timing cover	11 • 14	8 • 10	` .
Oil plug	24 • 30	18 • 22	-
Oil relief valve plug	40 • 47	30 • 35	
Oil sump drain plug	40 • 47	30 • 35	
Oil sump to cylinder block	7 • 11	5 - 8	
Oil sump rear to cylinder block	17 20	13 • 15	
Plenum chamber to ram housing	22 28	16 • 21	
Ram housing to intake manifold	20 • 27	15 • 20	
Rocker cover to cylinder head	7 • 10	5 - 71	
Rocker shaft bracket to cylinder head	34 - 40	25 30	
Spark plug	19 . 22	14 • 16	
Starter motor attachment	41 • 47	30 • 35	
Thermostat housing to intake manifold	24 • 30	18 • 22	
Timing cover to cylinder block	24 . 30	18 • 22 •	
Viscous unit to water pump hub	40 • 50	30 • 37	
Water pump pulley to water pump hub	8 • 12	6-9 •	
Water pump timing cover to cylinder block	24 . 30	18 • 22	
Water jacket to plenum chamber	11 • 14	8 - 10	
water jacket to picitatin chamber			
1989 Model Year			
Oil cooler adaptor to oil pump cover	40-50	30-37	
c. colo. adaptor to on pump coron			

06 TORQUE VALUES

FUEL SYSTEM Air-Bypass valve (stepper motor)	Nm 17 • 22 1,1 -1,3 22	ft lb 13 • 16	in b 10 • 12
1991 Model Year Fuel filter	27-34	20-25	
EVAPORATIVE LOSS CONTROL SYSTEM All flexible hose securing clamps	1,7		15

Charts below give torque values for all screws and bolts used except for those that are specified otherwise.

SIZE	METRIC		SIZE	SIZE	NC	UN	IF
	Nm	ft lb		Nm	ft Ib	Nm	ft lb
M5	5-7	3. 7- 5. 2	1/4	6. 8- 9. 5	5-7	8.1-12.2	6-9
M6	7-10	5. 2-7. 4	5116	20. 3- 27. 1	15-20	20. 3-27. 1	15-20
M8	22-28	16. 2-20. 7	3/8	35. 3-43. 4	26-32	35. 3-43. 4	26-32
MIO	40-50	29. 5-36. 9	7/16	67.8-88.1	S0-65	67.8-88.1	50-65
Ml 2	80-100	59.0-73.8	1/2	81.3-101.7	60-75	81.3-101.7	60-75
Ml 4	90- 120	66.4-88.5	5/8	122. 0- 149. 1	90-110	122. 0- 149. 1	90-110
Ml 6	160-200	118.0-147.5					