

SPECIFICATIONS**GENERAL SPECIFICATIONS**

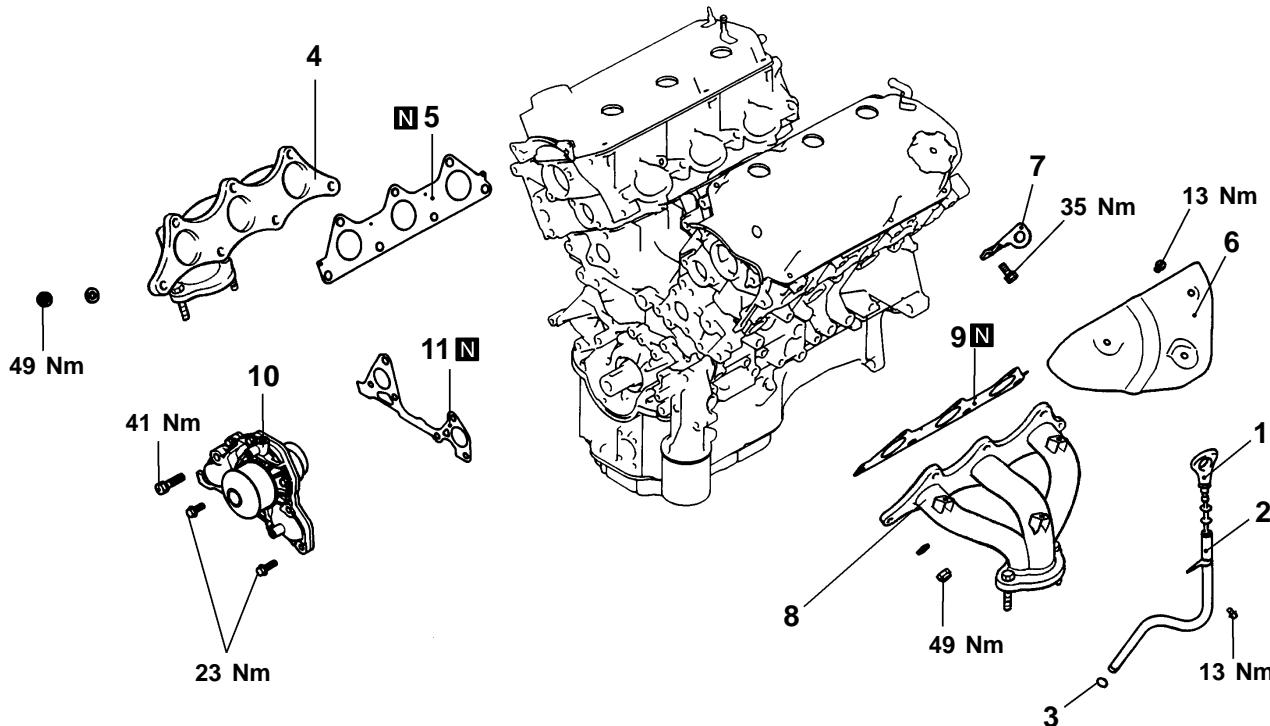
Descriptions		Specifications	
Type		60° V, SOHC (per bank)	
Number of cylinders		6	
Combustion chamber		Pentroof type	
Total displacement cc		3,497	
Cylinder bore mm		93.0	
Piston stroke mm		85.8	
Valve timing	Intake valve	Opens (BTDC) 13°	
		Closes (ABDC) 55°	
	Exhaust valve	Opens (BBDC) 51°	
		Closes (ATDC) 17°	
Lubrication system		Pressure feed, full-flow filtration	
Oil pump type		Trochoid type	
Cooling system		Water-cooled forced circulation	
Water pump type		Centrifugal impeller type	
EGR type		Single type	
Injector type and number		Electromagnetic, 6	
Injector identification mark		CDH210	
Throttle bore mm		65	
Throttle position sensor		Variable resistor type	
Closed throttle position switch		Movable contact type, within throttle position sensor	

SERVICE SPECIFICATIONS

Items		Standard value	Limit
Rocker arms and camshaft			
Camshaft	Cam height mm	Intake	37.71
		Exhaust	37.14
Camshaft	Journal diameter mm		44.93 – 44.94
Cylinder head and valve			
Valve	Thickness of valve head (margin) mm	Intake	1.0
		Exhaust	1.2
	Stem diameter mm	Intake	6.0
		Exhaust	6.0
	Stem to guide clearance mm	Intake	0.02–0.05
		Exhaust	0.04–0.07
Valve face angle			45°–45.5°
Valve spring	Free height mm		51.0
	Load/installed height N/mm		267/44.2
	Out of squareness		2° or less
Valve seat	Valve contact width mm		0.9–1.3
Valve guide	Inner diameter mm		6.0
	Outer diameter mm		11.0

EXHAUST MANIFOLD AND WATER PUMP

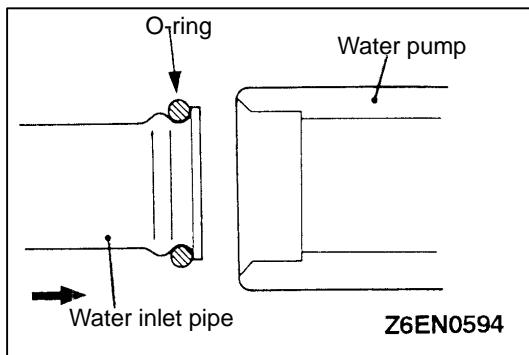
REMOVAL AND INSTALLATION



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Removal steps

1. Oil level gauge
2. Oil level gauge guide
3. O-ring
4. Exhaust manifold, rear
5. Exhaust manifold gasket, rear
6. Heat protector, front
7. Engine lift bracket
8. Exhaust manifold, front
9. Exhaust manifold gasket, front
- B◄ 10. Water pump
- A◄ 11. Water pump gasket



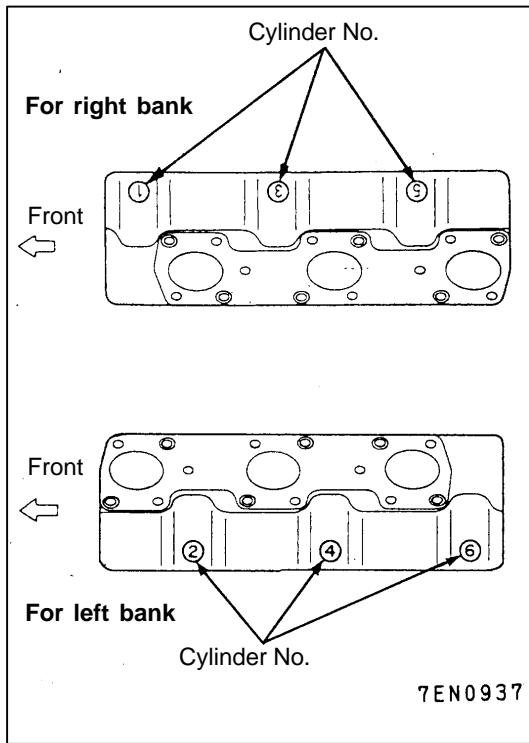
INSTALLATION SERVICE POINTS

►A◄ O-RING AND WATER PIPE INSTALLATION

1. Wet the O-ring (with water) to facilitate assembly.

Caution

Keep the O-ring free of oil or grease.



►B◄ EXHAUST MANIFOLD GASKET INSTALLATION

1. Install gaskets with cylinder number 1, 3 and 5 embossed on their top side to the right bank and install those with cylinder number 2, 4 and 6 to the left bank.