




SERVICE BULLETIN

QUALITY INFORMATION ANALYSIS
OVERSEAS SERVICE DEPT. MITSUBISHI MOTORS CORPORATION

SERVICE BULLETIN		No.: MSB-97E11-001	
		Date: 1998-12-15	<Model> (EC,EXP) COLT (C50A) 97-10 (EC,EXP) LANCER (C60A,C70A) 97-10 <M/Y> (EC,EXP) COLT (CA0A,CC0A) 97-10 (EC,EXP) LANCER (CB0A,CD0A) 97-10
Subject: CHANGE TIGHTENING TORQUE OF CRANKSHAFT BOLT			
Group: ENGINE	Draft No.: 97-EN-527		
CORRECTION	OVERSEAS SERVICE DEPT	 T.NITTA - VICE GENERAL MANAGER QUALITY INFORMATION ANALYSIS	
1. Description: This Service Bulletin informs you of change in tightening torque of the 4G1 engine crankshaft bolt.			
2. Applicable Manuals:			
Manual	Pub. No.	Language	Page(s)
ENGINE 4G1 SERIES WORKSHOP MANUAL	PWEE9001-A	(English)	11A-1-9
	PWES9002-A	(Spanish)	11A-3-1
	PWEEF9003-A	(French)	
	PWEG9004-A	(German)	
	PWED9005-A	(Dutch)	
	PWEW9006-A	(Swedish)	
ENGINE 4G1 SERIES (E-W) WORKSHOP MANUAL	PWEE9520	(English)	11A-1-4
	PWES9521	(Spanish)	11A-3-1
	PWEEF9522	(French)	11A-3-2
	PWEG9523	(German)	
	PWED9524	(Dutch)	
	PWEW9525	(Swedish)	
3. Effective Model: From 4A-TE1645			

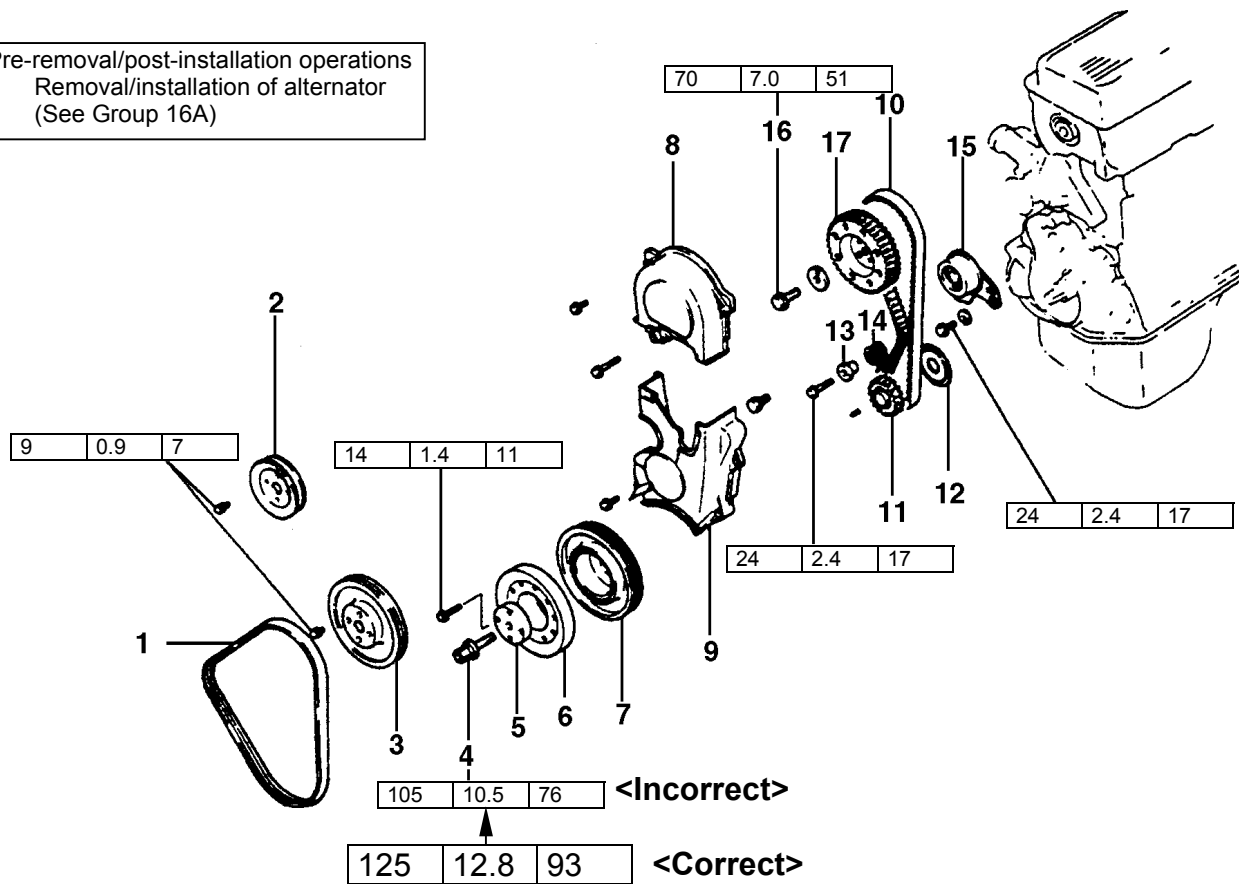
Drive belt and timing belt

Water pump pulley bolt	9	0.9	7
Crankshaft pulley bolt	14	1.4	11
Crankshaft bolt	105	10.5	76
Timing belt tensioner bolt	24	2.4	18
Camshaft sprocket bolt.....	70	7.0	51
Intake manifold			
Cable bracket bolt	14	14	11
Coolant temperature gauge unit.....	11	1.1	8
Coolant temperature sensor	30	3.0	22
Water outlet fitting bolt	19	1.9	14
Thermostat housing bolt and nut	19	1.9	14
Intake manifold stay bolt			
MPI engine	22	2.2	16
Carburettor engine	26	2.6	19
Intake manifold bolt and nut	18	1.8	13
Air intake plenum stay bolt	18	1.8	13
Air intake plenum bolt and nut	18	1.8	13
Exhaust manifold and water pump			
Exhaust manifold cover "A" bolt	30	30	22
Exhaust manifold cover "A" bolt and "B" mounting bolt.....	9	0.9	7
Exhaust manifold cover "A" bolt	24	2.4	18
Water inlet pipe bolt.....	14	1.4	11
Water pump bolt.....	14	1.4	11
Alternator brace installed portion	24	2.4	18
Rocker arms and camshaft			
Rocker cover bolt	1.8	0.18	1.3
Rocker arm shaft bolt			
12-valve engine	32	3.2	24
8-valve engine	24	2.4	18
Rocker arm lock nut			
Intake and exhaust	15	1.5	11
Jet valve	9	0.9	7
Cylinder head and valves			
Cylinder head bolt	73	7.3	53
Jet valve assembly (with engine oil applied	20	2.0	15
to threads and seat surface)			

3. DRIVE BELT AND TIMING BELT REMOVAL AND INSTALLATION

Pre-removal/post-installation operations

- Removal/installation of alternator
(See Group 16A)



Removal steps

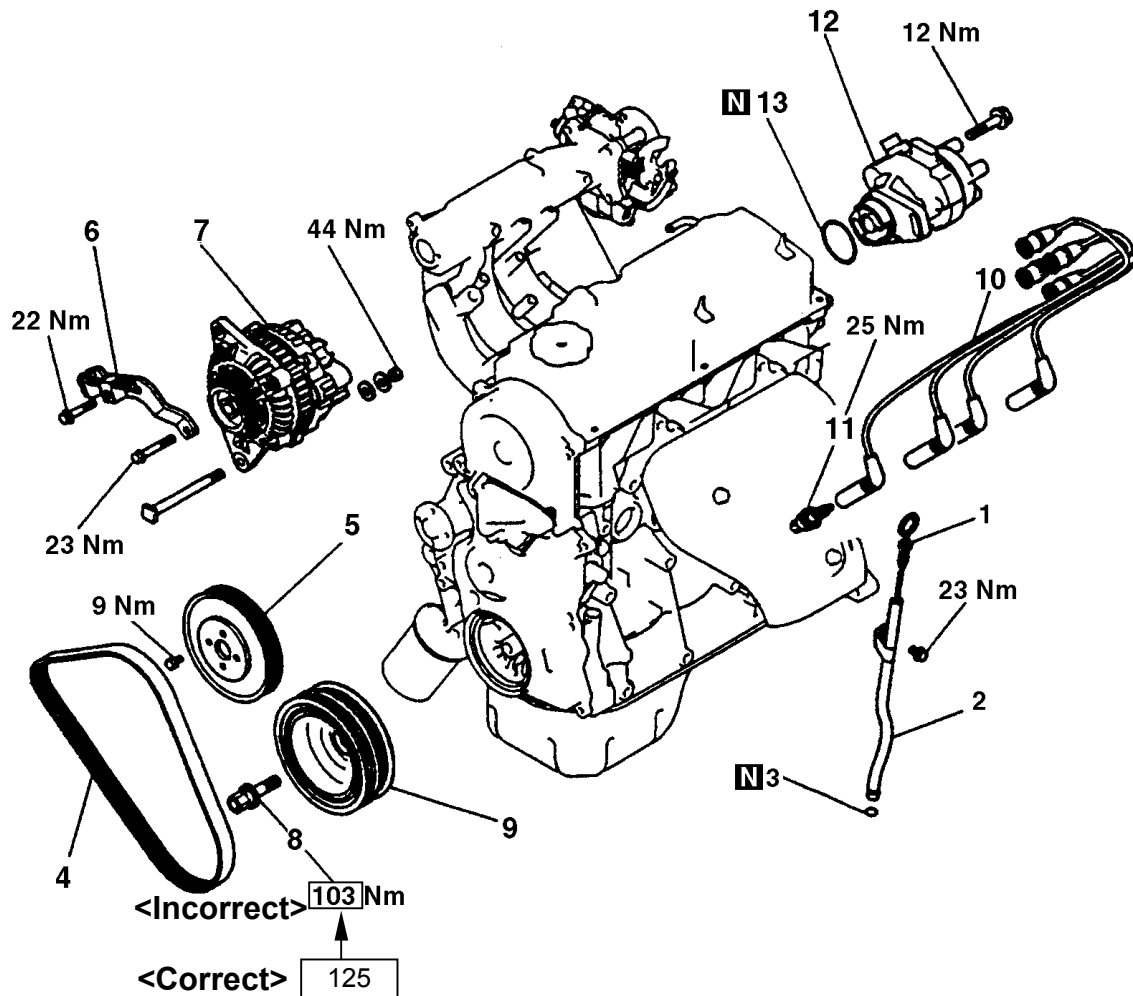
- E ←
1. Drive belt
 2. Pulley (for power steering pump drive)
 3. Water pump pulley
 4. Crankshaft pulley bolt
 5. Special washer
 6. Crankshaft pulley
 7. Damper pulley
 8. Timing belt upper cover
 9. Timing belt lower cover
- A ← →D ←
10. Timing belt
 11. Crankshaft sprocket
- C ←
12. Flange
 13. Tensioner spacer
 14. Tensioner spring
- B ←
15. Timing belt tensioner
- B ← →A ←
16. Camshaft sprocket bolt
 17. Camshaft sprocket

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TORQUE SPECIFICATIONS

Item		Nm
Alternator and ignition system		
Water pump pulley bolt		9
Alternator brace (alternator side)		22
Alternator brace (tightened with water pump)		23
Alternator pivot bolt		44
Oil level gauge guide		23
Crankshaft bolt	<Incorrect> 103	← 125 <Correct>
Spark plug		25
Distributor		11
Timing belt		
Timing belt cover		11
Timing belt tensioner		23
Engine support bracket (left)		35
Idler pulley		35
Camshaft sprocket bolt		88
Fuel system		
Delivery pipe		11
Fuel pressure regulator		9
Throttle body		18
Fuel pump		11
Breather tube		22
Carburetor		17
Air temperature sensor		13
EGR valve		21
Water pump		
Water inlet fitting		22
Water inlet pipe assembly		12
Thermostat case		23
Thermo valve		27
Water temperature gauge unit		11
Water temperature sensor		29
Water pump		13
Exhaust manifold and intake manifold		
Intake manifold		17
Intake manifold stay (MPI)	M8	17
	M10	21
Intake manifold stay (carburetor)		29

3. ALTERNATOR AND IGNITION SYSTEM REMOVAL AND INSTALLATION <SOHC>



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Removal steps

1. Oil level gauge
2. Oil level gauge guide
3. O-ring
4. Drive belt *
5. Water pump pulley
6. Alternator brace
7. Alternator
8. Crankshaft bolt
9. Crankshaft pulley

10. Spark plug cable
11. Spark plug
12. Distributor
13. O-ring

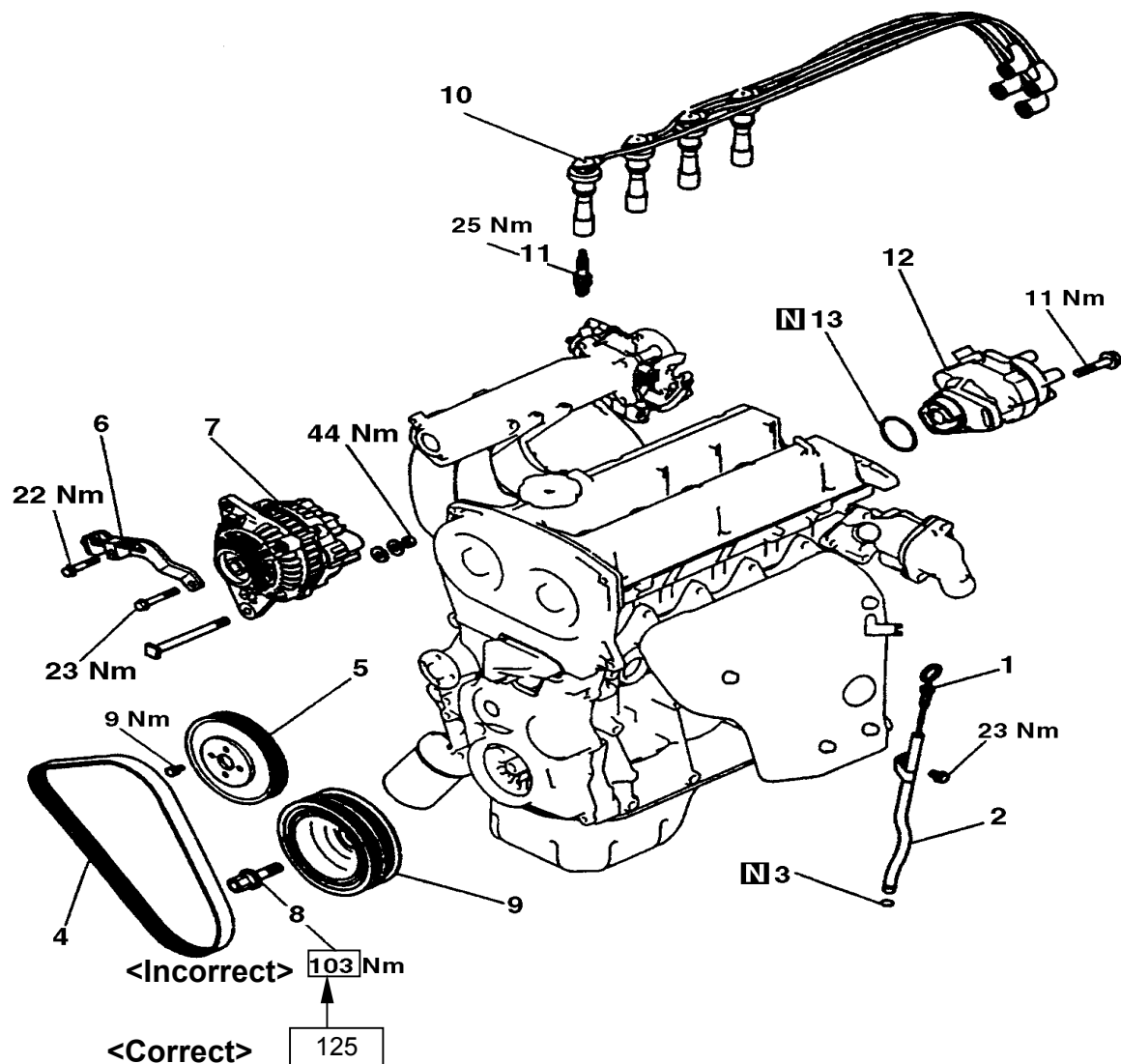


NOTE

*: For details of adjustment, refer to the model's chassis workshop manual.



REMOVAL AND INSTALLATION <DOHC>



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Removal steps

1. Oil level gauge
2. Oil level gauge guide
3. O-ring
4. Drive belt *
5. Water pump pulley
6. Alternator brace
7. Alternator
8. Crankshaft bolt
9. Crankshaft pulley

10. Spark plug cable
11. Spark plug
12. Distributor
13. O-ring

**NOTE**

*: For details of adjustment, refer to the relevant model's chassis workshop manual.