
ENGINE ELECTRICAL

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CHARGING SYSTEM

ALTERNATOR

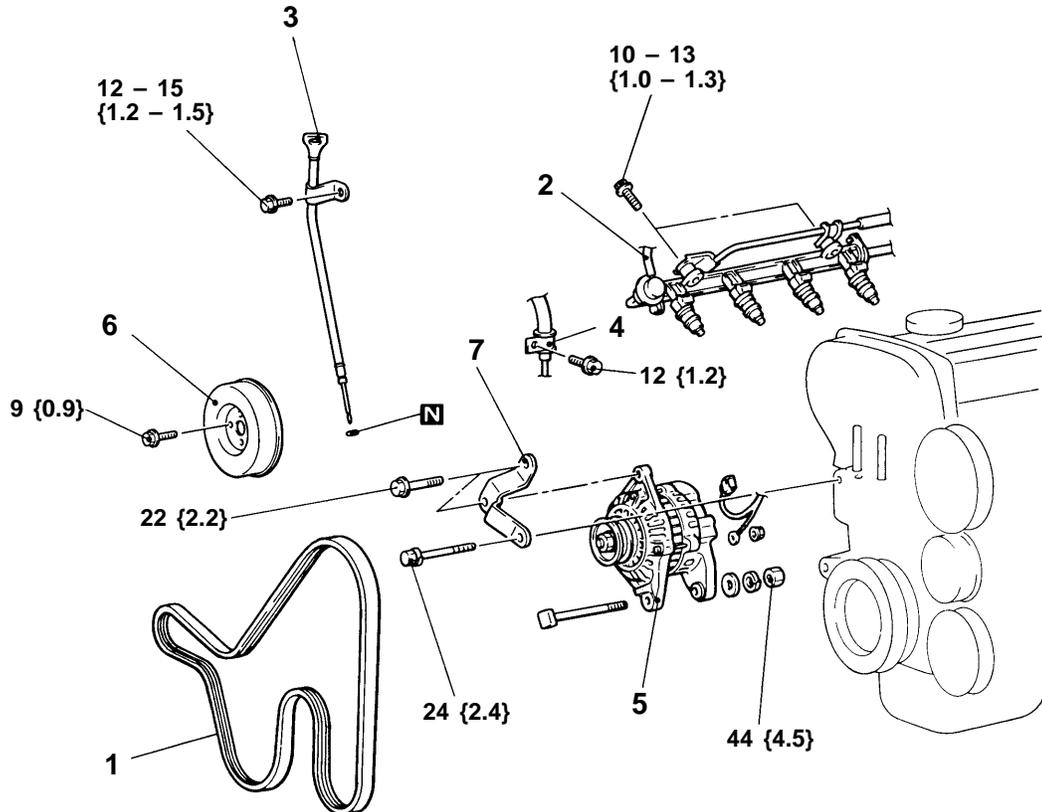
REMOVAL AND INSTALLATION

Pre-removal Operation

- (1) Under Cover Removal
- (2) Engine Mount Removal
- (3) Strut Tower Bar Removal

Post-installation Operation

- (1) Strut Tower Bar Installation
- (2) Engine Mount Installation
- (3) Under Cover Installation
- (4) Drive Belt Tension Adjustment
(Refer to GROUP 11 – On-vehicle Service.)



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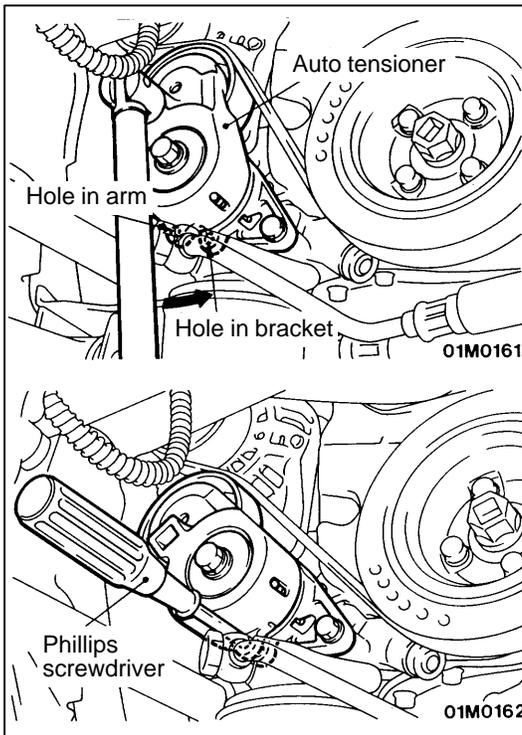
Unit: Nm {kgf · m}

Removal steps

- 1. Drive belt (Power steering, A/C)
- 2. Delivery pipe, injector and pressure regulator assembly
- 3. Oil level gauge guide



- 4. Pressure hose connection
- 5. Alternator
- 6. Water pump pulley
- 7. Alternator brace

**REMOVAL SERVICE POINTS****◀A▶ POWER STEERING, A/C COMPRESSOR, AND ALTERNATOR DRIVE BELT REMOVAL**

- (1) Align the hole in the auto tensioner bracket with that in the arm and insert a screwdriver into the holes.
- (2) Remove the drive belt.

◀B▶ DELIVERY PIPE, INJECTOR, AND PRESSURE REGULATOR ASSEMBLY REMOVAL

After the mounting points have been loosened, slightly move the corresponding part to allow for a space for removal of the alternator.

◀C▶ ALTERNATOR REMOVAL

Push the engine all the way up with a garage jack and remove the alternator upward the engine compartment.

IGNITION SYSTEM

ON-VEHICLE SERVICE

1. IGNITION COIL WITH BUILT-IN POWER TRANSISTOR CHECK

Secondary coil resistance measurement

Standard value: 15 – 21 k Ω

2. SPARK PLUG CHECK, CLEANING, AND REPLACEMENT

Check the plug gap and replace if the limit is exceeded.

Caution

- (1) Do not attempt to adjust the gap of the platinum plug.
- (2) Cleaning the platinum plug can damage platinum tips. If a cleaning is needed, use a plug cleaner and finish cleaning within 20 seconds to protect the electrodes. Never use wire brushes.

Standard values and limits:

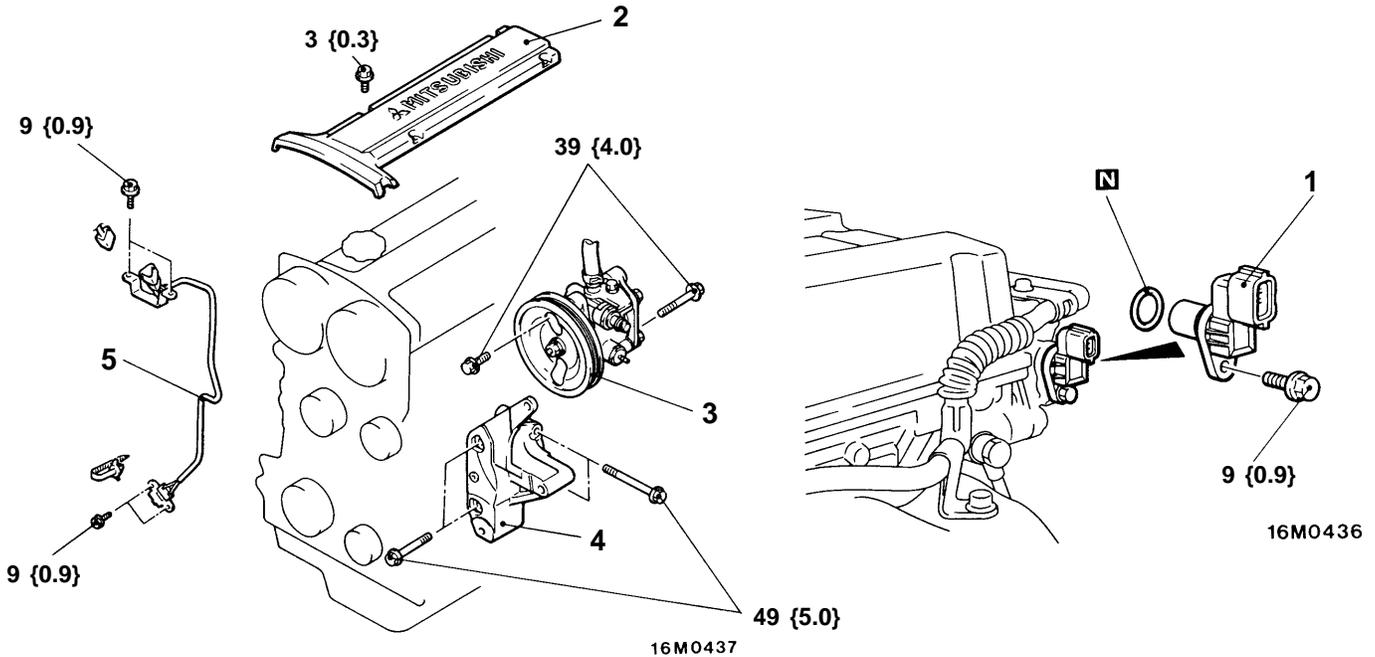
Manufacturer	Model	Standard value (mm)	Limit (mm)
NGK	PGR7A	0.7 – 0.8	0.95
DENSO	P22PR8	0.7 – 0.8	0.95

CAMSHAFT POSITION SENSOR AND CRANK ANGLE SENSOR

REMOVAL AND INSTALLATION

Pre-removal and Post-installation Operation

- Timing Belt Removal and Installation
(Refer to GROUP 11.)



Unit: Nm {kgf·m}

Removal steps

1. Camshaft position sensor
2. Center cover
3. Power steering oil pump

4. Power steering oil pump bracket
5. Crank angle sensor



REMOVAL SERVICE POINT

◀▶ POWER STEERING OIL PUMP REMOVAL

Remove the power steering oil pump with hose from the power steering oil pump bracket.

NOTE

String up the oil pump which has been removed onto a location that does not hamper removal and installation of the power steering oil pump bracket.