

GENERAL DESCRIPTION

MECHANICAL

1. General Description

A: SPECIFICATIONS

Engine	Type	Horizontally opposed, liquid cooled, 4-cylinder, 4-stroke gasoline engine	
	Valve arrangement	Belt driven, double overhead camshaft, 4-valve/cylinder	
	Bore x Stroke	mm (in)	92 x 75 (3.62 x 2.95)
	Piston displacement	cm ³ (cu in)	1,994 (121.67)
	Compression ratio	8.0	
	Compression pressure (at 200 — 300 rpm)	kPa (kgf/cm ² , psi)	981 — 1,177 (10 — 12, 142 — 171)
	Number of piston rings	Pressure ring: 2, Oil ring: 1	
	Intake valve timing	Opening	10° BTDC
		Closing	50° ABDC
	Exhaust valve timing	Opening	53° BBDC
		Closing	7° ATDC
	Valve clearance	Intake mm (in)	0.20±0.02 (0.0079±0.0008)
		Exhaust mm (in)	0.25±0.02 (0.0098±0.0008)
	Idling speed [At neutral position]	rpm	MT 750±100 (No load) 800±150 (A/C switch ON)
			AT 750±100 (No load) 825±150 (A/C switch ON)
	Firing order	1 → 3 → 2 → 4	
	Ignition timing	BTDC/rpm	

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NOTE:

STD: Standard I.D.: Inner Diameter O.D.: Outer Diameter OS: Oversize US: Undersize

Belt tension adjuster	Protrusion of adjuster rod			5.2 — 6.2 mm (0.205 — 0.244 in)	
Belt tensioner	Spacer O.D.			17.955 — 17.975 mm (0.7069 — 0.7077 in)	
	Tensioner bush I.D.			18.0 — 18.08 mm (0.7087 — 0.7118 in)	
	Clearance between spacer and bush	STD	0.025 — 0.125 mm (0.0010 — 0.0049 in)		
		Limit	0.175 mm (0.0069 in)		
	Side clearance of spacer	STD	0.2 — 0.55 mm (0.0079 — 0.0217 in)		
		Limit	0.81 mm (0.0319 in)		
Camshaft	Bend limit			0.020 mm (0.00079 in)	
	Thrust clearance	STD	0.015 — 0.070 mm (0.0006 — 0.0028 in)		
		Limit	0.10 mm (0.0039 in)		
	Cam lobe height	Intake	STD	46.25 — 46.35 mm (1.821 — 1.825 in)	
			Limit	46.15 mm (1.817 in)	
		Exhaust	STD	46.15 — 46.25 mm (1.817 — 1.821 in)	
			Limit	46.05 mm (1.813 in)	
	Jounal O.D.	STD	Front	37.946 — 37.963 mm (1.4939 — 1.4946 in)	
			Center rear	29.946 — 29.963 mm (1.1790 — 1.1796 in)	
	Oil clearance	STD	0.037 — 0.072 mm (0.0015 — 0.0028 in)		
		Limit	0.10 mm (0.0039 in)		
Cylinder head	Surface warpage limit			0.05 mm (0.0020 in)	
	Surface grinding limit			0.3 mm (0.012 in)	
	Standard height			127.5 mm (5.02 in)	
Valve seat	Refacing angle			90°	
	Contacting width	Intake	STD	1.0 mm (0.039 in)	
			Limit	1.7 mm (0.067 in)	
		Exhaust	STD	1.5 mm (0.059 in)	
			Limit	2.2 mm (0.087 in)	
Valve guide	Inner diameter			6.000 — 6.012 mm (0.2362 — 0.2367 in)	
	Protrusion above head			15.8 — 16.2 mm (0.622 — 0.638 in)	
Valve	Head edge thickness	Intake	STD	1.2 mm (0.047 in)	
			Limit	0.8 mm (0.031 in)	
		Exhaust	STD	1.5 mm (0.059 in)	
			Limit	0.8 mm (0.031 in)	
	Stem diameter	Intake	5.955 — 5.970 mm (0.2344 — 0.2350 in)		
		Exhaust	5.945 — 5.960 mm (0.2341 — 0.2346 in)		
	Stem oil clearance	STD	Intake	0.030 — 0.057 mm (0.0012 — 0.0022 in)	
			Exhaust	0.040 — 0.067 mm (0.0016 — 0.0026 in)	
		Limit	—	0.15 mm (0.0059 in)	
	Overall length		Intake	104.4 mm (4.110 in)	
			Exhaust	104.7 mm (4.122 in)	
Valve spring	Free length			44.67 mm (1.7587 in)	
	Squareness			2.5°, 2.0 mm (0.079 in)	
	Tension/spring height			205 — 236 N (20.9 — 24.1 kgf, 46.1 — 53.1 lb)/ 36.0 mm (1.417 in) 485 — 536 N (49.5 — 54.7 kgf, 109.1 — 120.5 lb)/ 26.6mm (1.047 in)	

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Cylinder block	Surface warpage limit (mating with cylinder head)			0.05 mm (0.0020 in)	
	Surface grinding limit			0.1 mm (0.004 in)	
	Cylinder bore	STD	A	92.005 — 92.015 mm (3.6222 — 3.6226 in)	
			B	91.995 — 92.005 mm (3.6218 — 3.6222 in)	
	Taper		STD	0.015 mm (0.0006 in)	
			Limit	0.050 mm (0.0020 in)	
	Out-of-roundness		STD	0.010 mm (0.0004 in)	
			Limit	0.050 mm (0.0020 in)	
	Piston clearance		STD	0.010 — 0.030 mm (0.0004 — 0.0012 in)	
			Limit	0.050 mm (0.0020 in)	
Enlarging (boring) limit				0.5 mm (0.020 in)	
Piston	Outer diameter	STD	A	91.985 — 91.995 mm (3.6214 — 3.6218 in)	
			B	91.975 — 91.985 mm (3.6211 — 3.6214 in)	
		0.25 mm (0.0098 in) OS		92.225 — 92.235 mm (3.6309 — 3.6313 in)	
		0.50 mm (0.0197 in) OS		92.475 — 92.485 mm (3.6407 — 3.6411 in)	
Piston pin	Standard clearance between piston pin and hole in piston		STD	0.004 — 0.008 mm (0.0002 — 0.0003 in)	
			Limit	0.020 mm (0.0008 in)	
	Degree of fit			Piston pin must be fitted into position with thumb at 20°C (68°F).	
Piston ring	Piston ring gap	Top ring	STD	0.20 — 0.25 mm (0.0079 — 0.0098 in)	
			Limit	1.0 mm (0.039 in)	
		Second ring	STD	0.35 — 0.50 mm (0.0138 — 0.0197 in)	
			Limit	1.0 mm (0.039 in)	
	Clearance between piston ring and piston ring groove	Oil ring	STD	0.20 — 0.50 mm (0.0079 — 0.0197 in)	
			Limit	1.5 mm (0.059 in)	
		Top ring	STD	0.055 — 0.090 mm (0.0022 — 0.0035 in)	
			Limit	0.15 mm (0.0059 in)	
Connecting rod	Bend twist per 100 mm (3.94 in) in length		Limit	0.10 mm (0.0039 in)	
	Side clearance		STD	0.070 — 0.330 mm (0.0028 — 0.0130 in)	
			Limit	0.4 mm (0.016 in)	
Connecting rod bearing	Oil clearance		STD	0.020 — 0.046 mm (0.0008 — 0.0018 in)	
			Limit	0.05 mm (0.0020 in)	
	Thickness at center portion		STD	1.486 — 1.498 mm (0.0585 — 0.0590 in)	
			0.03 mm (0.0012 in) US	1.504 — 1.512 mm (0.0592 — 0.0595 in)	
			0.05 mm (0.0020 in) US	1.514 — 1.522 mm (0.0596 — 0.0599 in)	
			0.25 mm (0.0098 in) US	1.614 — 1.622 mm (0.0635 — 0.0639 in)	
Connecting rod bushing	Clearance between piston pin and bushing		STD	0 — 0.022 mm (0 — 0.0009 in)	
			Limit	0.030 mm (0.0012 in)	

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Crankshaft	Bend limit		0.035 mm (0.0014 in)
	Crank pin and crank journal		0.020 mm (0.0008 in) or less
	Grinding limit		
	Crank pin outer diameter		STD 51.984 — 52.000 mm (2.0466 — 2.0472)
			0.03 mm (0.0012 in) US 51.954 — 51.970 mm (2.0454 — 2.0461)
			0.05 mm (0.0020 in) US 51.934 — 51.950 mm (2.0447 — 2.0453)
			0.25 mm (0.0098 in) US 51.734 — 51.750 mm (2.0368 — 2.0374)
	Crank journal outer diameter		STD 59.992 — 60.008 mm (2.3619 — 2.3625 in)
			0.03 mm (0.0012 in) US 59.962 — 59.978 mm (2.3607 — 2.3613 in)
			0.05 mm (0.0020 in) US 59.942 — 59.958 mm (2.3599 — 2.3605 in)
			0.25 mm (0.0098 in) US 59.742 — 59.758 mm (2.3520 — 2.3527 in)
			STD 59.992 — 60.008 mm (2.3619 — 2.3625 in)
			0.03 mm (0.0012 in) US 59.962 — 59.978 mm (2.3607 — 2.3613 in)
			0.05 mm (0.0020 in) US 59.942 — 59.958 mm (2.3599 — 2.3605 in)
			0.25 mm (0.0098 in) US 59.742 — 59.758 mm (2.3520 — 2.3527 in)
Thrust clearance		STD	0.030 — 0.115 mm (0.0012 — 0.0045 in)
		Limit	0.25 mm (0.0098 in)
Oil clearance		#1	STD 0.003 — 0.030 mm (0.0001 — 0.0012 in)
			Limit 0.040 mm (0.0016 in)
		#2	STD 0.012 — 0.033 mm (0.0005 — 0.0013 in)
			Limit 0.045 mm (0.0018 in)
		#3	STD 0.003 — 0.030 mm (0.0001 — 0.0012 in)
			Limit 0.040 mm (0.0016 in)
		#4	STD 0.012 — 0.033 mm (0.0005 — 0.0013 in)
			Limit 0.045 mm (0.0018 in)
		#5	STD 0.010 — 0.031 mm (0.0004 — 0.0012 in)
			Limit 0.040 mm (0.0016 in)

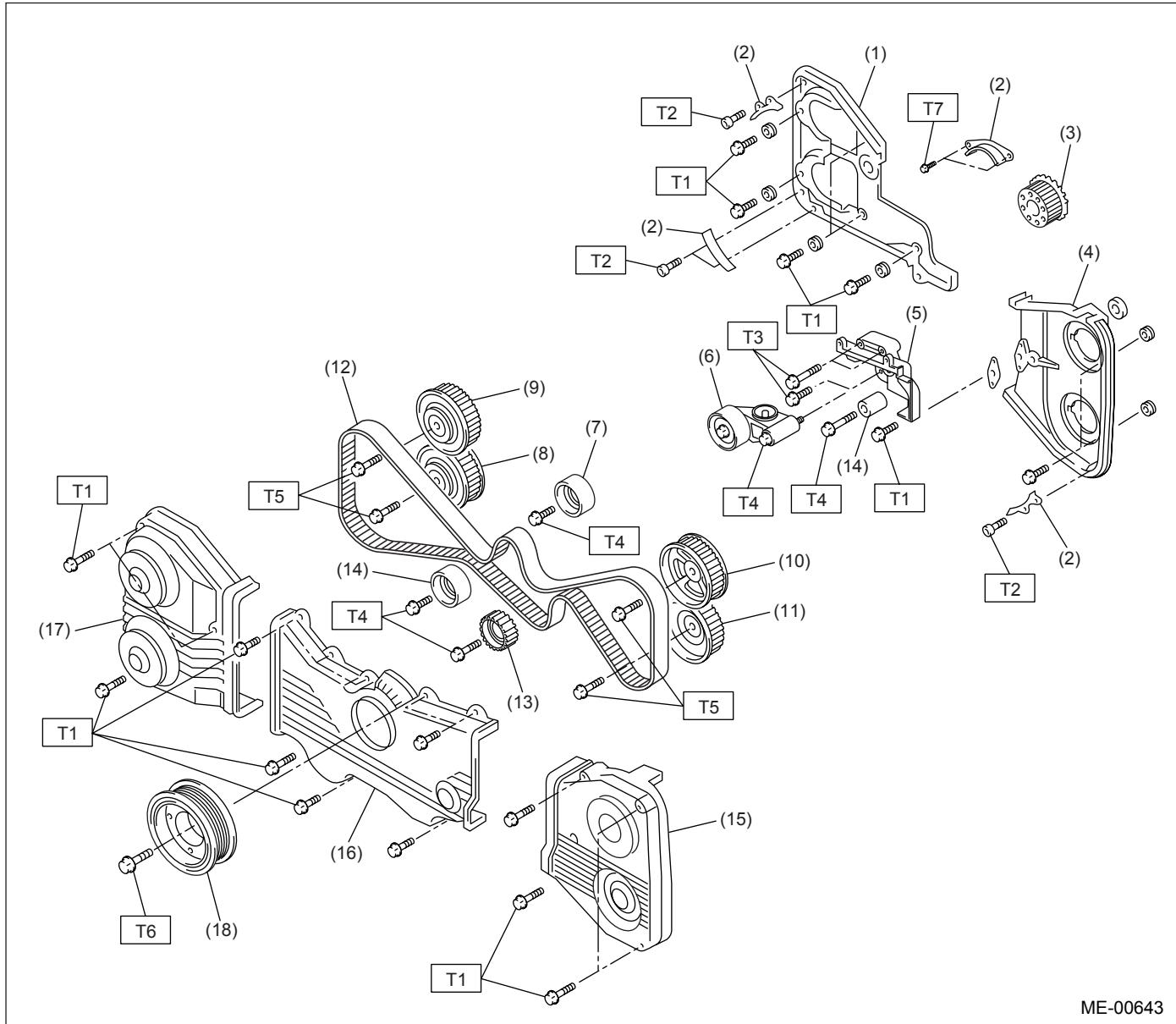
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Crankshaft bearing	Crankshaft bearing thickness	#1, #3	STD	1.998 — 2.011 mm (0.0787 — 0.0792 in)
			0.03 mm (0.0012 in) US	2.017 — 2.020 mm (0.0794 — 0.0795 in)
			0.05 mm (0.0020 in) US	2.027 — 2.030 mm (0.0798 — 0.0799 in)
			0.25 mm (0.0098 in) US	2.127 — 2.130 mm (0.0837 — 0.0839 in)
		#2, #4, #5	STD	2.000 — 2.013 mm (0.0787 — 0.0793 in)
			0.03 mm (0.0012 in) US	2.019 — 2.022 mm (0.0795 — 0.0796 in)
			0.05 mm (0.0020 in) US	2.029 — 2.032 mm (0.0799 — 0.0800 in)
			0.25 mm (0.0098 in) US	2.129 — 2.132 mm (0.0838 — 0.0839 in)

B: COMPONENT

1. TIMING BELT



ME-00643

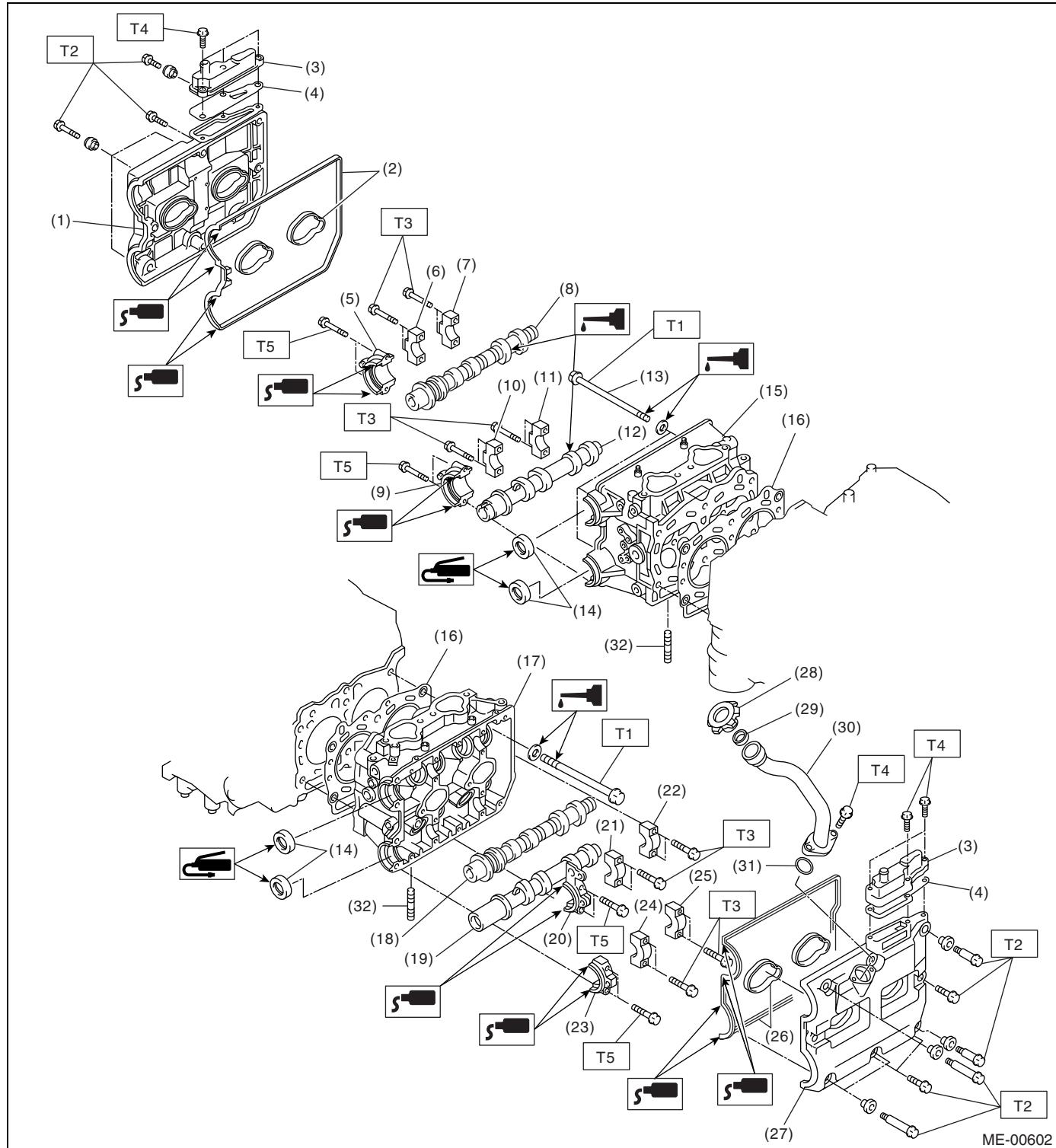
(1) Right-hand belt cover No. 2	(10) Left-hand intake camshaft sprocket
(2) Timing belt guide (MT vehicles only)	(11) Left-hand exhaust camshaft sprocket
(3) Crankshaft sprocket	(12) Timing belt
(4) Left-hand belt cover No. 2	(13) Belt idler No. 2
(5) Tensioner bracket	(14) Belt idler
(6) Automatic belt tension adjuster ASSY	(15) Left-hand belt cover
(7) Belt idler	(16) Front belt cover
(8) Right-hand exhaust camshaft sprocket	(17) Right-hand belt cover
(9) Right-hand intake camshaft sprocket	(18) Crankshaft pulley

Tightening torque: N·m (kgf·m, ft·lb)**T1: 5 (0.5, 3.6)****T2: 6.4 (0.65, 4.7)****T3: 25 (2.5, 18.1)****T4: 39 (4.0, 28.9)****T5: 98 (10, 72.4)****T6: <Ref. to ME(H4DOTC)-46, INSTALLATION, Crankshaft Pulley.>****T7: 10 (1.0, 7)**

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2. CYLINDER HEAD AND CAMSHAFT



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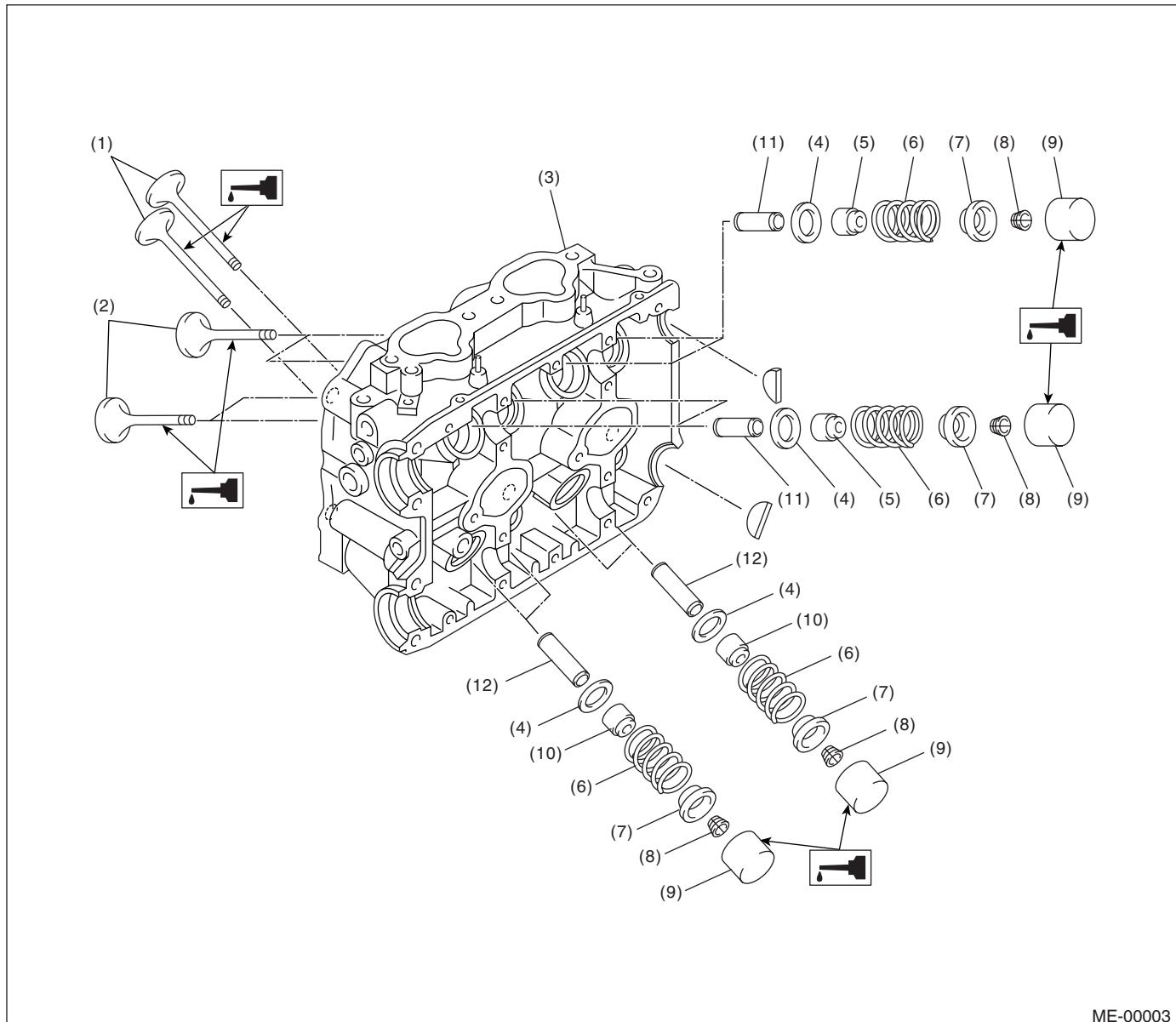
MECHANICAL

(1) Rocker cover (RH)	(15) Cylinder head (RH)	(29) Gasket
(2) Rocker cover gasket (RH)	(16) Cylinder head gasket (RH)	(30) Oil filler duct
(3) Oil separator cover	(17) Cylinder head (LH)	(31) O-ring
(4) Gasket	(18) Intake camshaft (LH)	(32) Stud bolt
(5) Intake camshaft cap (Front RH)	(19) Exhaust camshaft (LH)	
(6) Intake camshaft cap (Center RH)	(20) Intake camshaft cap (Front LH)	Tightening torque: N·m (kgf·m, ft-lb)
(7) Intake camshaft cap (Rear RH)	(21) Intake camshaft cap (Center LH)	T1: <Ref. to ME(H4DOTC)-64, INSTALLATION, Cylinder Head Assembly.>
(8) Intake camshaft (RH)	(22) Intake camshaft cap (Rear LH)	T2: 5 (0.5, 3.6)
(9) Exhaust camshaft cap (Front RH)	(23) Exhaust camshaft (Front LH)	T3: 20 (2.0, 14.8)
(10) Exhaust camshaft cap (Center RH)	(24) Exhaust camshaft cap (Center LH)	T4: 6.4 (0.65, 4.7)
(11) Exhaust camshaft cap (Rear RH)	(25) Exhaust camshaft cap (Rear LH)	T5: 10 (1.0, 7)
(12) Exhaust camshaft (RH)	(26) Rocker cover gasket (LH)	
(13) Cylinder head bolt	(27) Rocker cover (LH)	
(14) Oil seal	(28) Oil filler cap	

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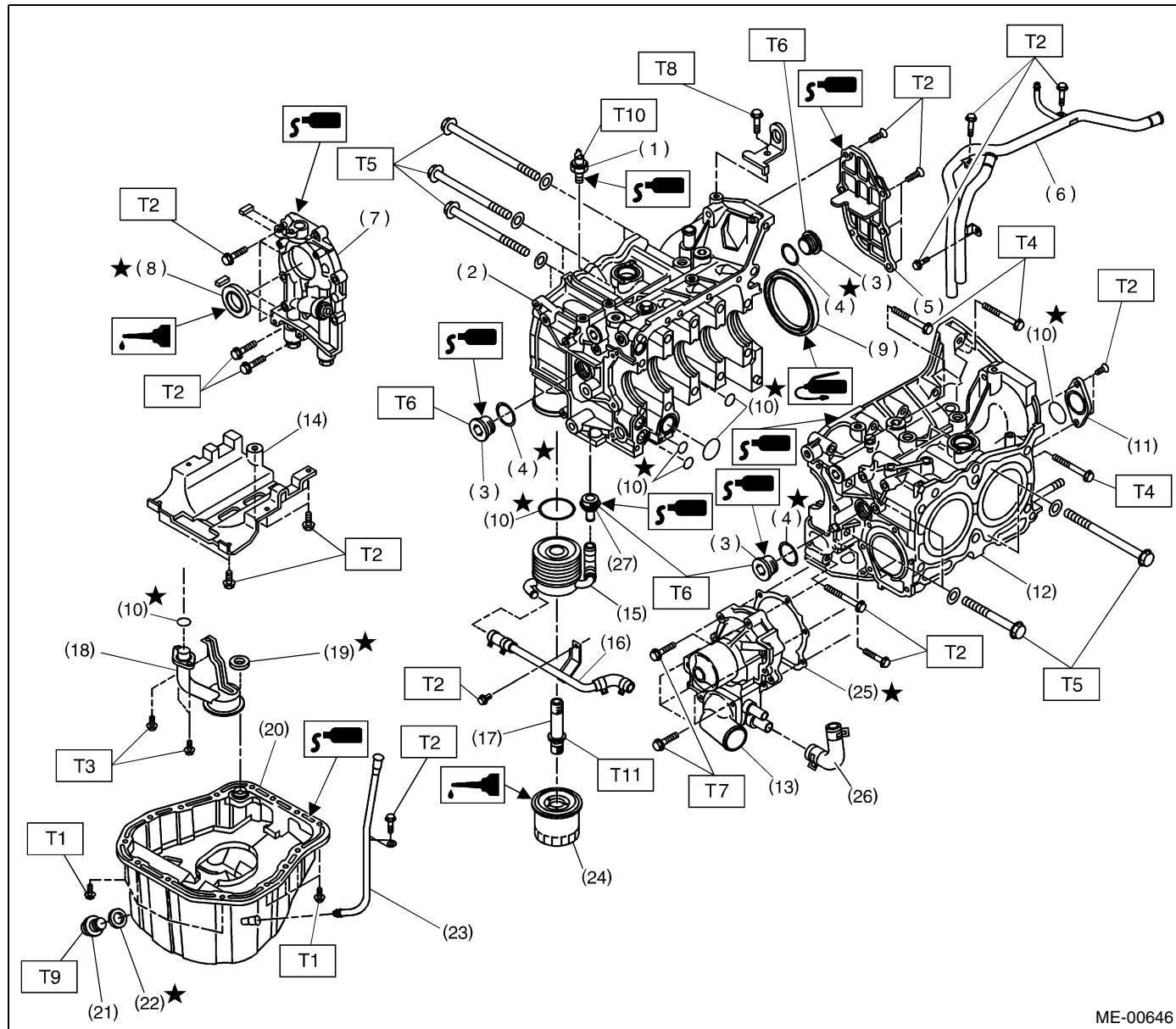
3. CYLINDER HEAD AND VALVE ASSEMBLY



ME-00003

(1) Exhaust valve	(6) Valve spring	(11) Intake valve guide
(2) Intake valve	(7) Retainer	(12) Exhaust valve guide
(3) Cylinder head	(8) Retainer key	
(4) Valve spring seat	(9) Valve lifter	
(5) Intake valve oil seal	(10) Exhaust valve oil seal	

4. CYLINDER BLOCK



ME-00646

(1) Oil pressure switch	(16) Waster by-pass pipe
(2) Cylinder block (RH)	(17) Connector
(3) Service hole plug	(18) Oil strainer
(4) Gasket	(19) Gasket
(5) Oil separator cover	(20) Oil pan
(6) Water by-pass pipe	(21) Drain plug
(7) Oil pump	(22) Metal gasket
(8) Front oil seal	(23) Oil level gauge guide
(9) Rear oil seal	(24) Oil filter
(10) O-ring	(25) Gasket
(11) Service hole cover	(26) Water pump hose
(12) Cylinder block (LH)	(27) Plug
(13) Water pump	
(14) Baffle plate	
(15) Oil cooler	

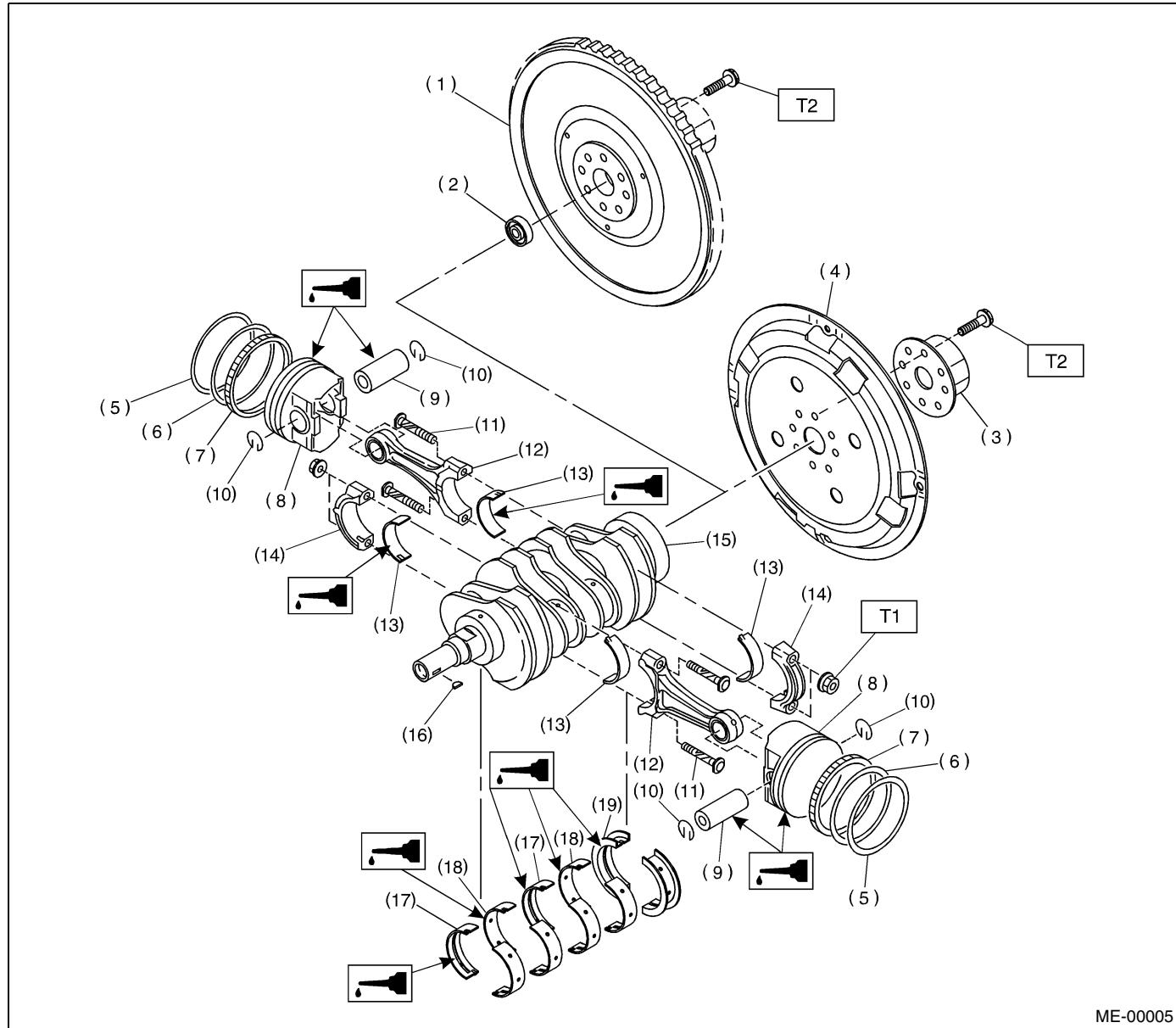
Tightening torque: N·m (kgf·m, ft·lb)

T1: 5 (0.5, 3.6)
T2: 6.4 (0.65, 4.7)
T3: 10 (1.0, 7)
T4: 25 (2.5, 18.1)
T5: <Ref. to ME(H4DOTC)-74, INSTALLATION, Cylinder Block. >
T6: 70 (7.0, 50.6)
T7: First 12 (1.2, 8.7) Second 12 (1.2, 8.7)
T8: 16 (1.6, 11.6)
T9: 44 (4.5, 33)
T10: 25 (2.5, 18.1)
T11: 55 (5.5, 40)

GENERAL DESCRIPTION

MECHANICAL

5. CRANKSHAFT AND PISTON



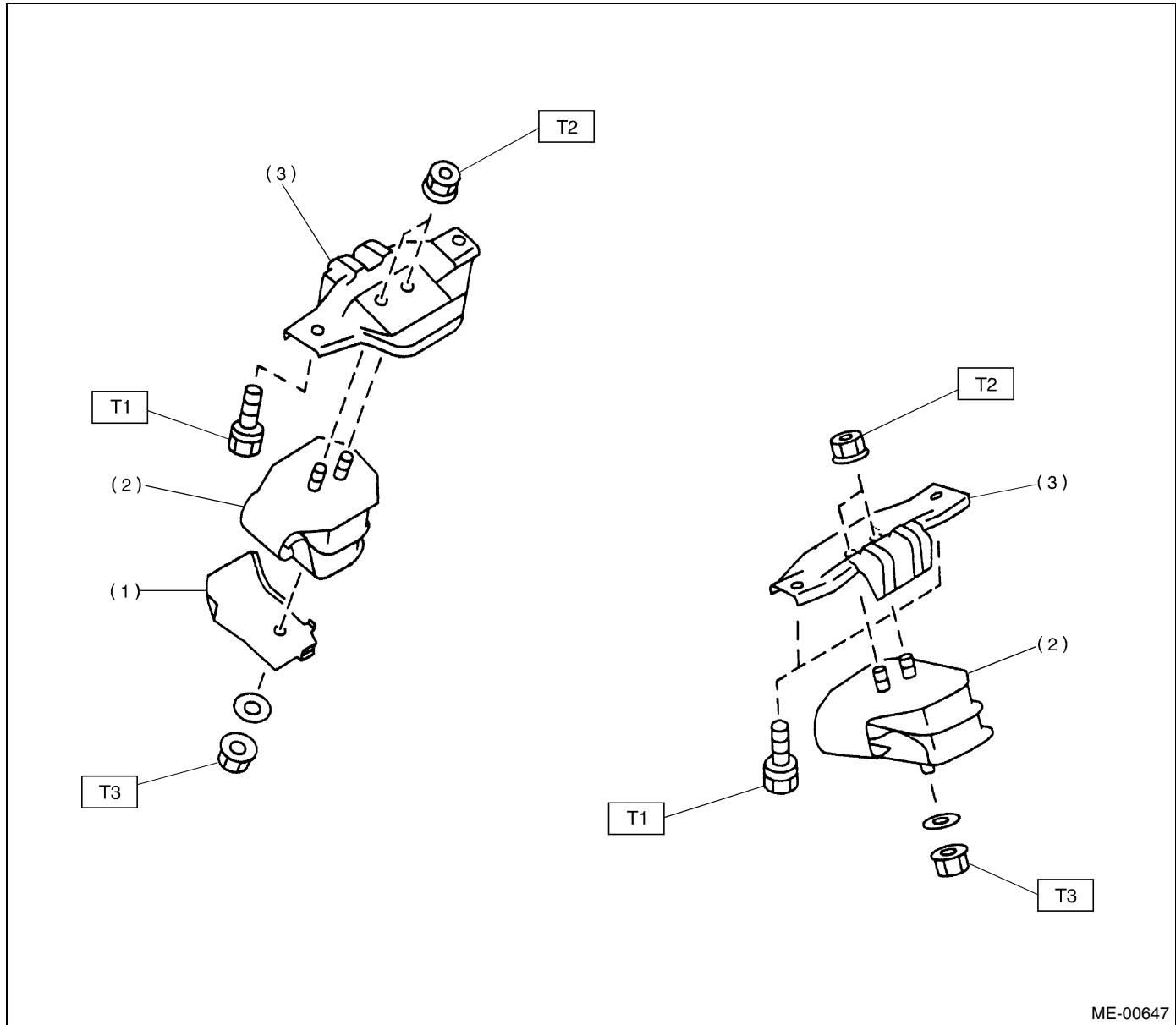
(1) Flywheel (MT vehicles only)	(9) Piston pin	(17) Crankshaft bearing #1, #3
(2) Ball bearing (MT vehicles only)	(10) Circlip	(18) Crankshaft bearing #2, #4
(3) Reinforcement (AT vehicles only)	(11) Connecting rod bolt	(19) Crankshaft bearing #5
(4) Drive plate (AT vehicles only)	(12) Connecting rod	
(5) Top ring	(13) Connecting rod bearing	
(6) Second ring	(14) Connecting rod cap	
(7) Oil ring	(15) Crankshaft	
(8) Piston	(16) Woodruff key	

Tightening torque: N·m (kgf·m, ft·lb)

T1: 45 (4.55, 32.9)

T2: 72 (7.3, 52.8)

6. ENGINE MOUNTING



ME-00647

(1) Heat shield cover
(2) Front cushion rubber

(3) Front engine mounting bracket

Tightening torque: N·m (kgf·m, ft·lb)
T1: 34 (3.5, 25.3)
T2: 42 (4.3, 30.9)
T3: 83 (8.5, 61)

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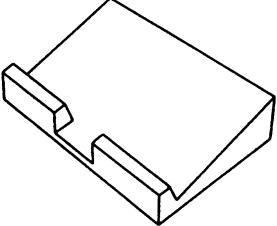
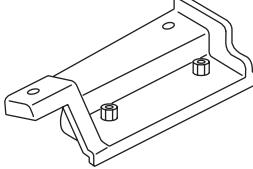
C: CAUTION

- Wear working clothing, including a cap, protective goggles, and protective shoes during operation.
- Remove contamination including dirt and corrosion before removal, installation or disassembly.
- Keep the disassembled parts in order and protect them from dust or dirt.
- Before removal, installation or disassembly, be sure to clarify the failure. Avoid unnecessary removal, installation, disassembly, and replacement.
- Be careful not to burn your hands, because each part in the vehicle is hot after running.
- Be sure to tighten fasteners including bolts and nuts to the specified torque.
- Place shop jacks or safety stands at the specified points.
- Before disconnecting electrical connectors of sensors or units, be sure to disconnect the negative terminal from battery.
- All parts should be thoroughly cleaned, paying special attention to the engine oil passages, pistons and bearings.

- Rotating parts and sliding parts such as piston, bearing and gear should be coated with oil prior to assembly.
- Be careful not to let oil, grease or coolant contact the timing belt, clutch disc and flywheel.
- All removed parts, if to be reused, should be reinstalled in the original positions and directions.
- Bolts, nuts and washers should be replaced with new ones as required.
- Even if necessary inspections have been made in advance, proceed with assembly work while making rechecks.
- Remove or install the engine in an area where chain hoists, lifting devices, etc. are available for ready use.
- Be sure not to damage coated surfaces of body panels with tools or stain seats and windows with coolant or oil. Place a cover over fenders, as required, for protection.
- Prior to starting work, prepare the following: Service tools, clean cloth, containers to catch coolant and oil, wire ropes, chain hoist, transmission jacks, etc.
- Lift-up or lower the vehicle when necessary. Make sure to support the correct positions.

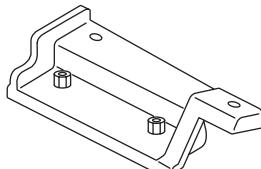
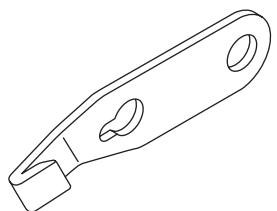
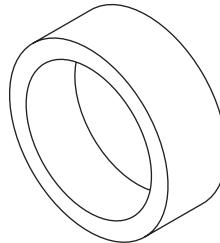
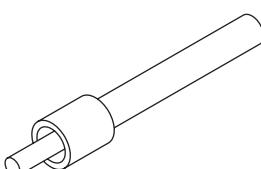
D: PREPARATION TOOL

1. SPECIAL TOOLS

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-498267600	498267600	CYLINDER HEAD TABLE	<ul style="list-style-type: none">• Used for replacing valve guides.• Used for removing and installing valve springs.
 ST-498457000	498457000	ENGINE STAND ADAPTER RH	Used with ENGINE STAND (499817000).

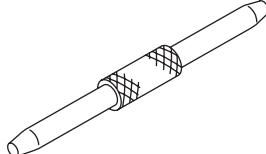
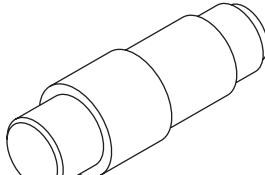
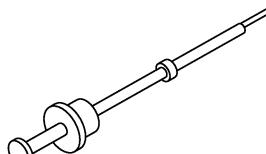
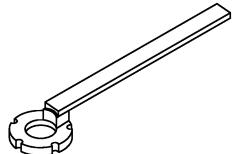
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 ST-498457100	498457100	ENGINE STAND ADAPTER LH	Used with ENGINE STAND (499817000).
 ST-498497100	498497100	CRANKSHAFT STOPPER	Used for stopping rotation of flywheel when loosening and tightening crankshaft pulley bolt, etc.
 ST-398744300	398744300	PISTON GUIDE	Used for installing piston in cylinder for 2000 cc engine.
 ST-498857100	498857100	VALVE OIL SEAL GUIDE	Used for press-fitting of intake and exhaust valve guide oil seals.

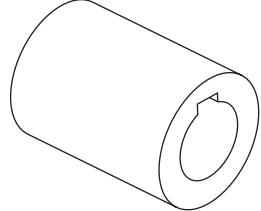
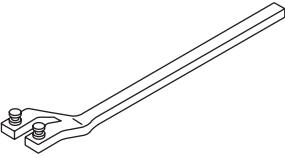
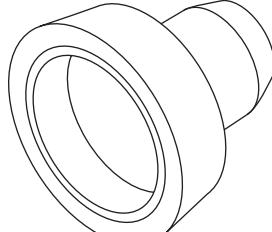
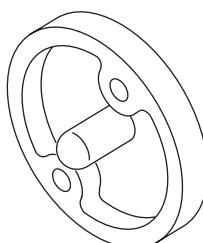
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ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-499017100	499017100	PISTON PIN GUIDE	Used for installing piston pin, piston and connecting rod.
 ST-499037100	499037100	CONNECTING ROD BUSHING REMOVER & INSTALLER	Used for removing and installing connecting rod bushing.
 ST-499097600	499097600	PISTON PIN REMOVER ASSY	Used for removing piston pin.
 ST-499207400	499207400	CAMSHAFT SPROCKET WRENCH	Used for removing and installing camshaft sprocket.

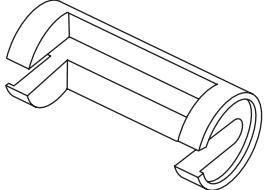
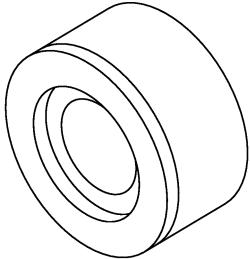
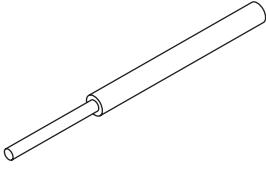
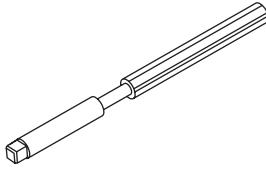
GENERAL DESCRIPTION

MECHANICAL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-499987500	499987500	CRANKSHAFT SOCKET	Used for rotating crankshaft.
 ST18231AA010	18231AA010	CAMSHAFT SPROCKET WRENCH	Used for removing and installing camshaft sprocket.(Intake camshaft sprocket LH)
 ST-499587200	499587200	CRANKSHAFT OIL SEAL INSTALLER	<ul style="list-style-type: none">Used for installing crankshaft oil seal.Used with CRANKSHAFT OIL SEAL GUIDE (499597100).
 ST-499597100	499597100	CRANKSHAFT OIL SEAL GUIDE	<ul style="list-style-type: none">Used for installing crankshaft oil seal.Used with CRANKSHAFT OIL SEAL INSTALLER (499587200).

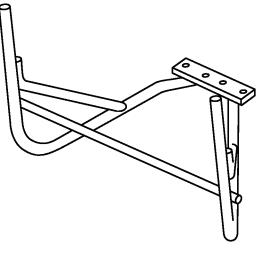
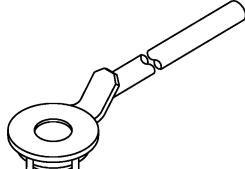
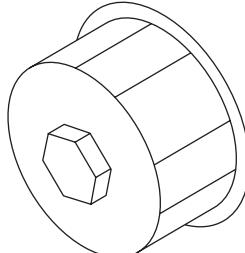
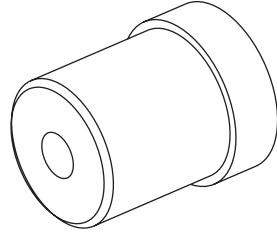
GENERAL DESCRIPTION

MECHANICAL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-499718000	499718000	VALVE SPRING REMOVER	Used for removing and installing valve spring.
 ST18251AA020	18251AA020	VALVE GUIDE ADJUSTER	Used for installing intake and exhaust valve guides.
 ST-499767200	499767200	VALVE GUIDE REMOVER	Used for removing valve guides.
 ST-499767400	499767400	VALVE GUIDE REAMER	Used for reaming valve guides.

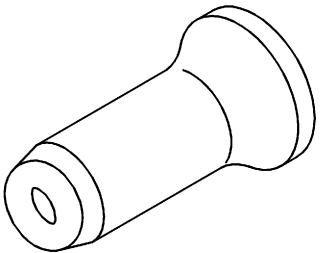
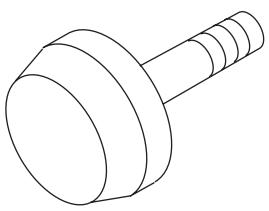
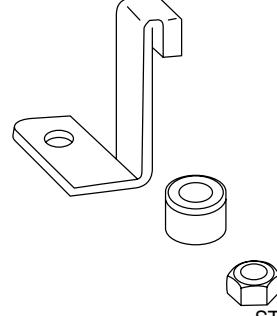
GENERAL DESCRIPTION

MECHANICAL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-499817000	499817000	ENGINE STAND	<ul style="list-style-type: none"> Stand used for engine disassembly and assembly. Used with ENGINE STAND ADAPTER RH (498457000) & LH (498457100).
 ST-499977400	499977400 (499977300 can also be used.)	CRANK PULLEY WRENCH	Used for stopping rotation of crankshaft pulley when loosening and tightening crankshaft pulley bolts.
 ST-498547000	498547000	OIL FILTER WRENCH	Used for removing and installing oil filter.
 ST-499587100	499587100	OIL SEAL INSTALLER	Used for installing oil pump oil seal.

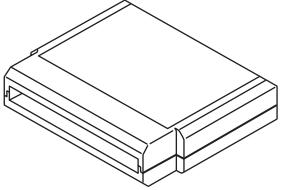
GENERAL DESCRIPTION

MECHANICAL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST-499587600	499587600	OIL SEAL INSTALLER	Used for installing camshaft oil seal for DOHC engine.
 ST-499597200	499597200	OIL SEAL GUIDE	<ul style="list-style-type: none">Used for installing camshaft oil seal for DOHC engine.Used with OIL SEAL GUIDE (499587600).
 ST-498277200	498277200	STOPPER SET	Used for installing automatic transmission assembly to engine.

GENERAL DESCRIPTION

MECHANICAL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
 ST24082AA210	24082AA210 (Newly adopted tool)	CARTRIDGE	Troubleshooting for electrical systems.
 ST22771AA030	22771AA030	SELECT MONITOR KIT	Troubleshooting for electrical systems. <ul style="list-style-type: none"> • English: 22771AA030 (Without printer) • German: 22771AA070 (Without printer) • French: 22771AA080 (Without printer) • Spanish: 22771AA090 (Without printer)

2. GENERAL PURPOSE TOOLS

TOOL NAME	REMARKS
Compression Gauge	Used for measuring compression.
Timing Light	Used for measuring ignition timing.

E: PROCEDURE

It is possible to conduct the following service procedures with engine on the vehicle, however, the procedures described in this section are based on the condition that the engine is removed from the vehicle.

- V-belt
- Timing Belt
- Camshaft
- Cylinder Head