1. General Description

A: SPECIFICATION

	Model					2.5 L
	Cylinder arrangement		Horizontally opposed, liquid cooled, 4-cylinder, 4-stroke gasoline engine			
	Valve system mechanism	Chain driven, double overhead cam- shaft, 4-valve/cylinder				
	Bore × Stroke	mm (in)	94.0 × 90.0 (3.70 × 3.54)			
	Displacement	cm ³ (cu in)	2.498 (152.43)			
	Compression ratio					10
	Compression pressure (at 200 — 300 rpm)		(kg/cr	m², psi)	Standard	1,050 — 1,400 (11 — 14, 152 — 203)
	Number of piston rings		Compression ring: 2 Oil ring: 1			
	Inteller valva timin a			Onon	Max. retard	ATDC 16°
Engine				Open	Min. advance	BTDC 39°
	Intake valve timing			Close	Max. retard	ABDC 80°
			Close	Min. advance	ABDC 25°	
	Exhaust valve timing	Open	BBDC 35°			
	Exhaust valve tirriirig				Open	ATDC 13°
	Cam clearance mm (in)	Intake			Standard	0.13±0.03 (0.0051±0.0012)
	Can dealance min (iii)	Exhaust		Standard	0.24±0.03 (0.0094±0.0012)	
	 		No lo	ad	Standard	CVT model: 675±100
	Idle speed (For CVT model, select lever in "P" or "N" range. For MT model, gear shift	rpm	INO IO	au	Staridard	MT model: 650±100
	lever in neutral position.)	тріп	۸/۵ (N	Standard	CVT model: 700±100
	lever in neutral position.) A/C ON				Staridard	MT model: 800 — 850±100
	Ignition order					$1 \rightarrow 3 \rightarrow 2 \rightarrow 4$
	Ignition timing		RTI	OC/rpm	Standard	CVT model: 16°±10°/675
			ווט	Jo/ipili	Giariuaru	MT model: 16°±10°/650

NOTE:

OS: Oversize US: Undersize

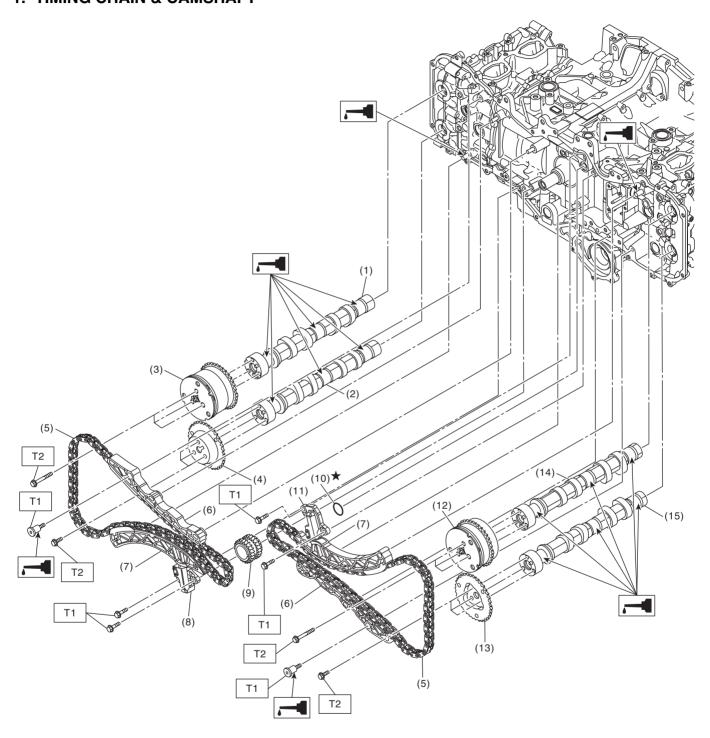
	Bending			mm (in)	Limit	0.020 (0.00079)
	Once lab a bailabt	(:)	Intake		Standard	40.77 — 40.87 (1.605 — 1.609)
	Cam lobe height mm (in)		Exhaust		Standard	40.15 — 40.25 (1.581 — 1.585)
Camshaft	Cam base circle diameter			mm (in)	Standard	34.0 (1.339)
	Journal outer diameter			mm (in)	Standard	25.946 — 25.963 (1.0215 — 1.0222)
	Thrust clearance			mm (in)	Standard	0.068 — 0.116 (0.0027 — 0.0047)
Oil clearance				mm (in)	Standard	0.037 — 0.072 (0.0015 — 0.0028)
Culindan	Warpage (mating surface with cylinder block) mn Grinding limit				Limit	0.035 (0.0014)
Cylinder head					mm (in)	To 98.4 (3.874)
11000	Height			mm (in)	Standard	98.5 (3.878)
	Valve overall length		mm (in)	Intake		103.3 (4.067)
	valve overall length			Exhaust		94.1 (3.705)
	Valve head edge thickness	mm (in)	Intake		Standard	0.8 — 1.2 (0.031 — 0.047)
	valve fload edge tillottieds		Exhaust		Standard	1.0 — 1.4 (0.039 — 0.055)
Valve &	Valve stem outer diameter	mm (in)	Intake		Standard	5.455 — 5.470 (0.2148 — 0.2154)
valve guide	Exhaust				Standard	5.445 — 5.460 (0.2144 — 0.2150)
	Valve guide inner diameter mm (Standard	5.500 — 5.512 (0.2165 — 0.2170)
	Clearance between valve and	mm (in)	Intake		Standard	0.030 — 0.057 (0.0012 — 0.0022)
	valve guide		Exhaust		Standard	0.040 — 0.067 (0.0016 — 0.0026)
	Valve guide protrusion amount		,	mm (in)	Standard	11.4 — 11.8 (0.449 — 0.465)
	Valve stem end outer diameter	mm (in)	Intake		Standard	5.455 — 5.470 (0.2148 — 0.2154)
Valve &	valve sterri end outer diameter		Exhaust		Standard	5.445 — 5.460 (0.2148 — 0.2150)
valve &	Valve shim inner diameter		mm (in)	Standard	5.500 — 5.560 (0.2165 — 0.2189)	
	Clearance between valve and	mm (in)	Intake		Standard	0.030 — 0.105 (0.0012 — 0.0041)
	valve shim	111111 (111)	Exhaust		Standard	0.040 — 0.115 (0.0016 — 0.0045)
	Seating width between valve	mm (in)	Intake		Standard	0.8 — 1.6 (0.031 — 0.063)
Valve seat	and valve seat		Exhaust		Standard	1.1 — 1.7 (0.043 — 0.067)
vaive seat	Seating angle between valve and	d valve sea	at			45°
	Seating position between valve a	and valve	seat		T	Valve face center
	Free length			mm (in)	Standard	41.06 (1.617)
Valve spring	Tension/spring height	b)/mm (in)	Set	Standard	182 — 210 (18.56 — 21.41, 40.92 — 47.22)/ 33.0 (1.299)	
vaive spillig	тепэюнгэрний петупт	(Ngi, i		Lift	Standard	552 — 610 (56.29 — 62.20, 124.11 — 137.15)/ 22.0 (0.866)
	Squareness				Standard	2.5°, 1.8 mm (0.071 in) or less

	Cylinder block wa	rnage					
	(Mating surface w		ad)		mm (in)	Limit	0.025 (0.00098)
	Grinding limit of cylinder block						To 204.9 (8.067)
	Height of cylinder block mm (in)						205.0 (8.071)
Cylinder	Inner diameter of	oulindor linor	mm (in)	Cylinder b mark A	Cylinder bore size mark A		94.005 — 94.015 (3.7010 — 3.7014)
	Inner diameter of cylinder liner mm (ir		111111 (111)	Cylinder bore size mark B		Standard	93.995 — 94.005 (3.7006 — 3.7010)
block &	Cylindricality of cy	linder liner			mm (in)	Limit	0.015 (0.0006)
piston	Out-of-roundness	of cylinder line	er		mm (in)	Limit	0.010 (0.0004)
	Piston grade poin	t				mm (in)	13.3 (0.52)
				Standard	Grade A	Standard	93.980 — 93.990 (3.7000 — 3.7004)
			mm (in)	Size	Grade B	Standard	93.970 — 93.980 (3.6996 — 3.7000)
	Piston outer diameter mm (in)			0.25 (0.00	98) OS	Standard	94.220 — 94.240 (3.7094 — 3.7102)
	0.50 (0.0				97) OS	Standard	94.470 — 94.490 (3.7193 — 3.7201)
	Clearance between	en cylinder line	r and pisto	mm (in)	Standard	0.015 — 0.035 (0.00059 — 0.00138)	
	Inner diameter of cylinder liner boring limit (diameter)				mm (in)	To 94.505 (3.7207)	
Piston and	Degree of fit					Piston pin must be fitted into position with thumb at 20°C (68°F).	
piston pin	Clearance between piston and piston pin			mm (in)	Standard	0.004 — 0.008 (0.0002 — 0.0003)	
	Communication wine			Top ring		Standard	0.20 — 0.30 (0.0079 — 0.0118)
	Closed mm (in)	Compression ring		Second rin	ng	Standard	0.30 — 0.45 (0.0118 — 0.0177)
Piston ring	gap	per rail and lower rail)			Standard	0.20 — 0.50 (0.0079 — 0.0197)	
	Clearance between compres-			Top ring		Standard	0.040 — 0.080 (0.0016 — 0.0031)
	mm (in)			Second rin	ng	Standard	0.030 — 0.070 (0.0012 — 0.0028)
	Bend or twist per	100 mm (3.94	in) in lengt	th	mm (in)	Limit	0.10 (0.0039)
	Thrust clearance				mm (in)	Standard	0.070 — 0.330 (0.0028 — 0.0130)
Connecting				Standard	size	Standard	1.492 — 1.508 (0.0587 — 0.0594)
rod and connecting	Connecting rod be	earing	mm (in)	0.03 (0.00	12) US	Standard	1.511 — 1.515 (0.0595 — 0.0596)
rod bearing	thickness (at cent	er)	mm (in)	0.05 (0.00	20) US	Standard	1.521 — 1.525 (0.0599 — 0.0600)
	0.25 (0.0098) US				98) US	Standard	1.621 — 1.625 (0.0638 — 0.0640)
	Oil clearance				mm (in)	Standard	0.017 — 0.047 (0.0007 — 0.0019)
Piston pin & connecting rod bushing	Clearance between rod bushing	en piston pin a	nd connect	ting	mm (in)	Standard	0.004 — 0.026 (0.0002 — 0.0010)

	Bending		mm (in)	Limit	0.035 (0.0014)
		Cylindric	ality mm (in)	Limit	0.006 (0.0002)
	Crankshaft pin	Out-of- roundnes	mm (in)	Limit	0.005 (0.0002)
		Grinding	limit (dia.)	mm (in)	To 47.726 (1.8790)
		Cylindric	ality mm (in)	Limit	0.006 (0.0002)
	Crankshaft journal	Out-of- roundnes	ss mm (in)	Limit	0.005 (0.0002)
		Grinding limit (dia.)		mm (in)	To 67.735 (2.6667)
			Standard size	Standard	47.976 — 48.000 (1.8888 — 1.8898)
	Crankahaft nin autar diamatar	mm (in)	0.03 (0.0012) US	Standard	47.946 — 47.970 (1.8876 — 1.8886)
Crankshaft	Crankshaft pin outer diameter		0.05 (0.0020) US	Standard	47.926 — 47.950 (1.8868 — 1.8878)
			0.25 (0.0098) US	Standard	47.726 — 47.750 (1.8790 — 1.8799)
and crank-		mm (in)	Standard size	Standard	67.985 — 68.009 (2.6766 — 2.6775)
shaft bear- ing	Crankshaft journal outer diame-		0.03 (0.0012) US	Standard	67.955 — 67.979 (2.6754 — 2.6763)
	ter	111111 (111)	0.05 (0.0020) US	Standard	67.935 — 67.959 (2.6746 — 2.6755)
			0.25 (0.0098) US	Standard	67.735 — 67.759 (2.6667 — 2.6677)
		#1, #2, #3, #4	Standard size	Standard	2.495 — 2.513 (0.0982 — 0.0989)
			0.03 (0.0012) US	Standard	2.519 — 2.522 (0.0992 — 0.0993)
			0.05 (0.0020) US	Standard	2.529 — 2.532 (0.0996 — 0.0997)
	Crankshaft bearing		0.25 (0.0098) US	Standard	2.629 — 2.632 (0.1035 — 0.1036)
	thickness (at center) mm (in)		Standard size	Standard	2.493 — 2.511 (0.0981 — 0.0989)
		#5	0.03 (0.0012) US	Standard	2.517 — 2.520 (0.0991 — 0.0992)
		#3	0.05 (0.0020) US	Standard	2.527 — 2.530 (0.0995 — 0.0996)
			0.25 (0.0098) US	Standard	2.627 — 2.630 (0.1034 — 0.1035)
	Thrust clearance		mm (in)	Standard	0.130 — 0.308 (0.00512 — 0.01213)
	Oil clearance		mm (in)	Standard	0.013 — 0.031 (0.00051 — 0.00122)

B: COMPONENT

1. TIMING CHAIN & CAMSHAFT



ME-07071

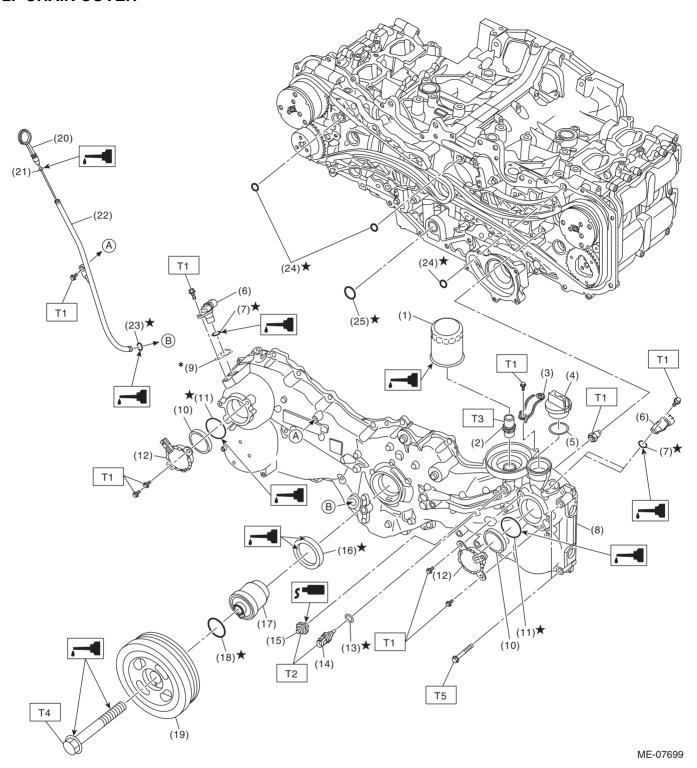
- (1) Intake camshaft RH
- (2) Exhaust camshaft RH
- (3) Intake cam sprocket RH
- (4) Exhaust cam sprocket RH
- (5) Timing chain
- (6) Chain guide
- (7) Chain tension lever

- (8) Chain tensioner RH
- (9) Crank sprocket
- (10) O-ring
- (11) Chain tensioner LH
- (12) Intake cam sprocket LH
- (13) Exhaust cam sprocket LH
- (14) Intake camshaft LH
- (15) Exhaust camshaft LH

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 6.4 (0.7, 4.7)
T2: 18 (1.8, 13.3)

2. CHAIN COVER



- (1) Oil filter
- (2) Oil pump union
- (3) Generator cord stay
- (4) Oil filler cap
- (5) Gasket
- (6) Camshaft position sensor
- (7) O-ring
- (8) Chain cover
- (9) Spacer
- (10) Back-up ring
- (11) O-ring
- * Zero or one spacer for gap adjustment.

- (12) Oil control solenoid
 - (13) Gasket
 - (14) Engine oil temperature sensor
 - (15) Oil pressure switch
 - (16) Front oil seal
 - (17) Crank pulley boss
 - (18) O-ring
 - (19) Crank pulley
 - (20) Oil level gauge
 - (21) O-ring
 - (22) Oil level gauge guide

- (23) O-ring
- (24) O-ring
- (25) O-ring

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 6.4 (0.7, 4.7)

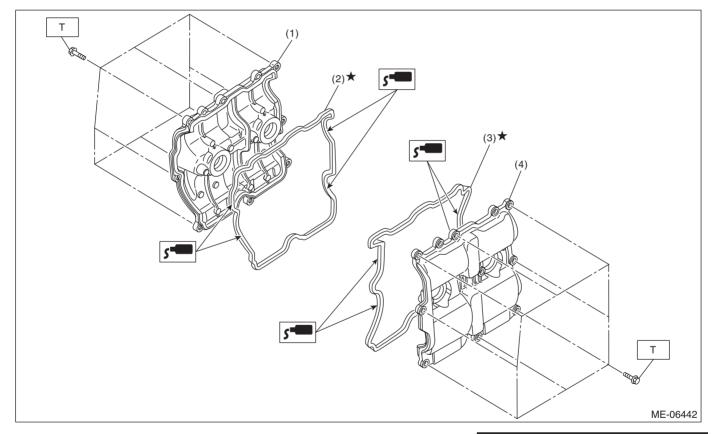
T2: 18 (1.8, 13.3)

T3: 45 (4.6, 33.2)

T4: <Ref. to ME(H4DO)-89, INSTAL-LATION, Crank Pulley.>

T5: <Ref. to ME(H4DO)-102, INSTALLATION, Chain Cover.>

3. ROCKER COVER

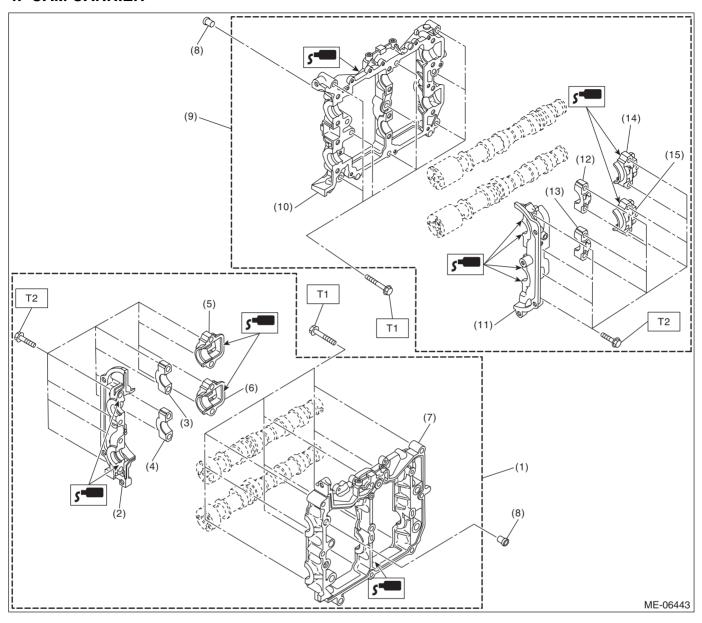


- (1) Rocker cover RH
- (2) Rocker cover gasket RH
- (3) Rocker cover gasket LH
- (4) Rocker cover LH

Tightening torque: N·m (kgf-m, ft-lb)

T: <Ref. to ME(H4DO)-149, INSTALLATION, Rocker Cover.>

4. CAM CARRIER



- (1) Cam carrier ASSY
- (2) Front camshaft cap RH
- (3) Intake center camshaft cap RH
- (4) Exhaust center camshaft cap RH
- (5) Intake rear camshaft cap RH
- (6) Exhaust rear camshaft cap RH
- (7) Cam carrier RH

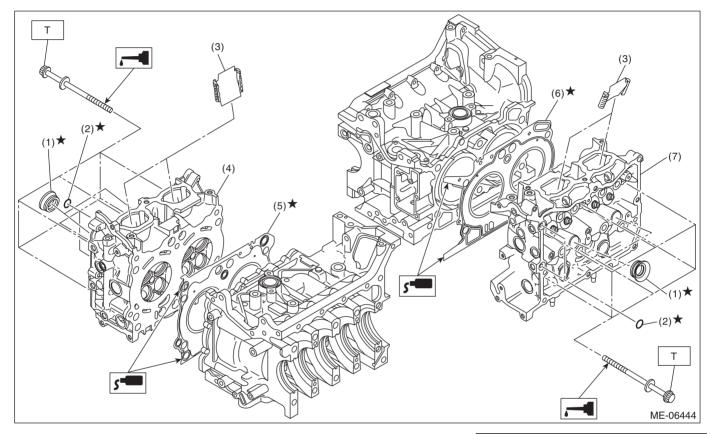
- (8) Filter
- (9) Cam carrier ASSY
- (10) Cam carrier LH
- (11) Front camshaft cap LH
- (12) Intake center camshaft cap LH
- (13) Exhaust center camshaft cap LH
- (14) Intake rear camshaft cap LH
- (15) Exhaust rear camshaft cap LH

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: <Ref. to ME(H4DO)-192, ASSEMBLY, Cam Carrier.>

T2: <Ref. to ME(H4DO)-168, INSTALLATION, Cam Carrier.>

5. CYLINDER HEAD



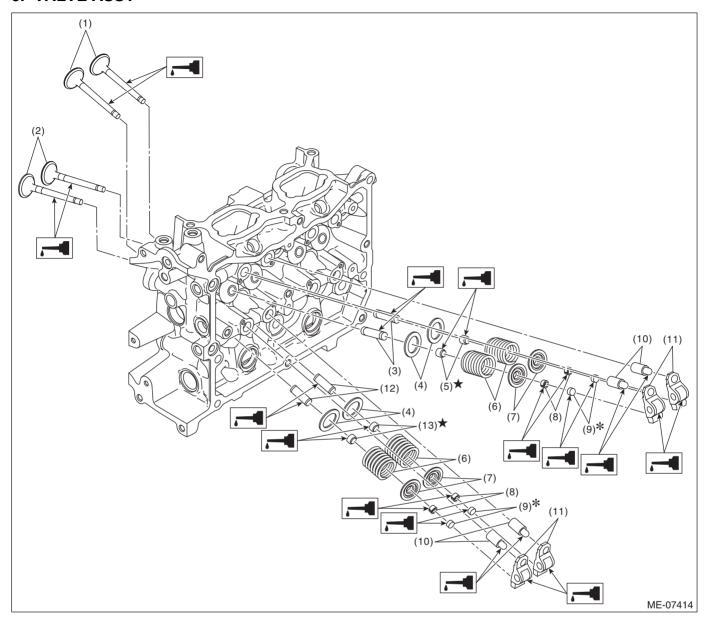
- (1) Spark plug pipe gasket
- (2) O-ring
- (3) Cylinder head plate
- (4) Cylinder head RH

- (5) Cylinder head gasket RH
- (6) Cylinder head gasket LH
- (7) Cylinder head LH

Tightening torque: N⋅m (kgf-m, ft-lb)
T: <Ref. to ME(H4DO)-205,

: <Ref. to ME(H4DO)-205, INSTALLATION, Cylinder Head.>

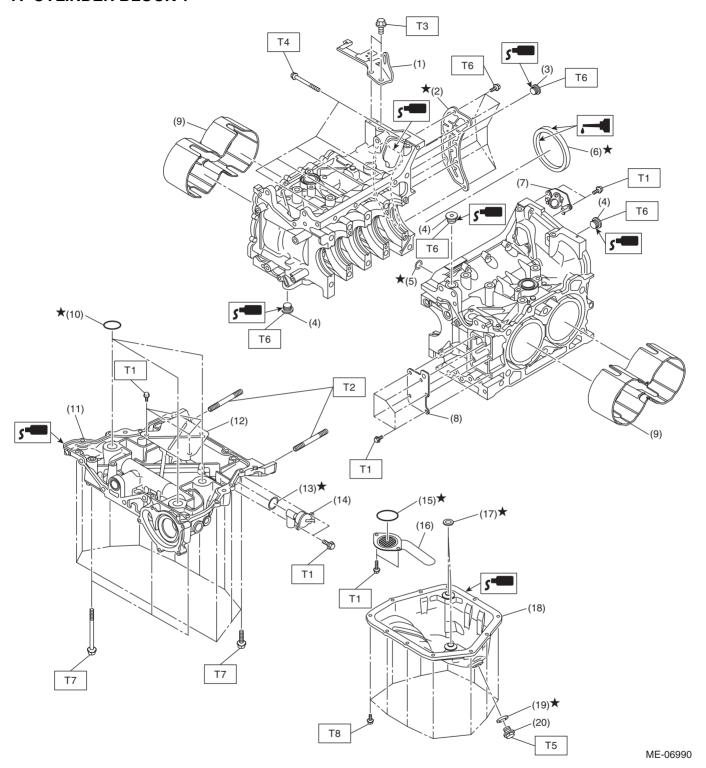
6. VALVE ASSY



- (1) Exhaust valve
- (2) Intake valve
- (3) Intake valve guide
- (4) Valve spring seat
- (5) Intake valve oil seal

- (6) Valve spring
- (7) Valve spring retainer
- (8) Valve collet
- (9) Valve shim
- (10) Roller rocker arm pivot
- (11) Roller rocker arm
- (12) Exhaust valve guide
- (13) Exhaust valve oil seal

7. CYLINDER BLOCK 1

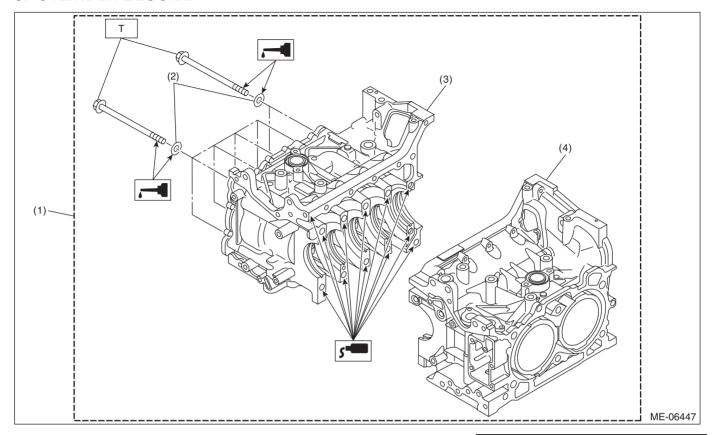


General Description

MECHANICAL

(1)	Engine rear hanger	(11)	Oil pan upper	Tighte	ening torque: N·m (kgf-m, ft-lb)
(2)	Oil separator cover	(12)	Baffle plate	T1:	6.4 (0.7, 4.7)
(3)	Cylinder block plug	(13)	O-ring	T2:	10 (1.0, 7.4)
(4)	Main gallery plug	(14)	Oil level switch	T3:	21 (2.1, 15.5)
(5)	O-ring	(15)	O-ring	T4:	25 (2.5, 18.4)
(6)	Rear oil seal	(16)	Oil strainer	T5:	41.7 (4.3, 30.8)
(7)	Crankshaft position sensor holder	(17)	Oil pan seal ring	Т6:	<ref. cylin-<br="" me(h4do)-307,="" to="">DER BLOCK, ASSEMBLY, Cyl- inder Block.></ref.>
(8)	Cylinder block plate	(18)	Oil pan	T7:	<ref. me(h4do)-261,<br="" to="">INSTALLATION, Cylinder Block.></ref.>
(9)	Water jacket spacer	(19)	Drain plug gasket	Т8:	<ref. lu(h4do)-15,="" oil<br="" to="">PAN, INSTALLATION, Oil Pan and Strainer.></ref.>
(10)	O-ring	(20)	Drain plug		

8. CYLINDER BLOCK 2



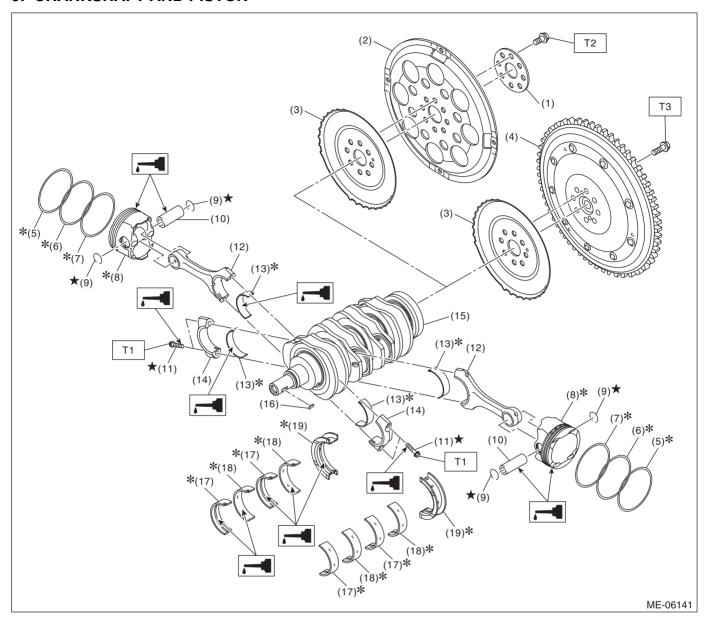
- (1) Cylinder block ASSY
- (2) Washer

- (3) Cylinder block RH
- (4) Cylinder block LH

Tightening torque: N·m (kgf-m, ft-lb)

T: <Ref. to ME(H4DO)-261, INSTALLATION, Cylinder Block.>

9. CRANKSHAFT AND PISTON



(1)	Reinforcement drive plate (CVT
	model)

- (2) Drive plate (CVT model)
- (3) Crankshaft position sensor plate
- (4) Flywheel (MT model)
- (5) Top ring
- (6) Second ring
- (7) Oil ring
- (8) Piston

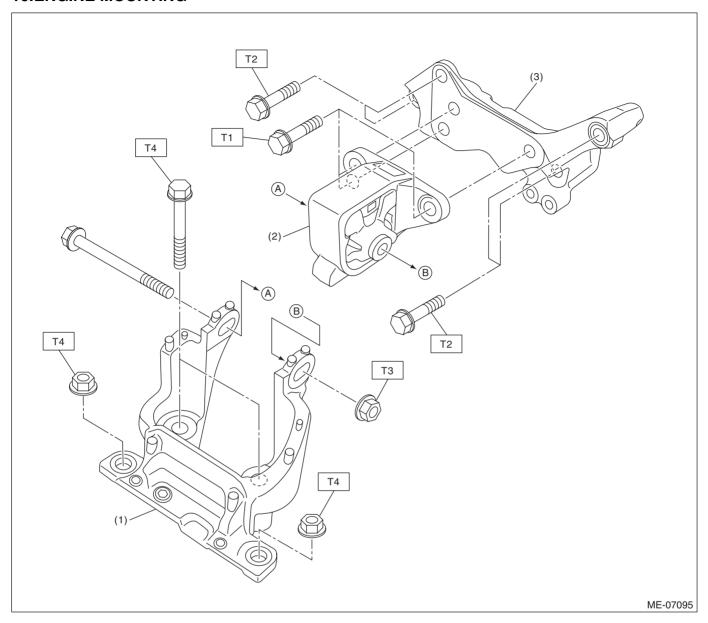
- (9) Circlip
- (10) Piston pin
- (11) Connecting rod cap bolt
- (12) Connecting rod
- (13) Connecting rod bearing
- (14) Connecting rod cap
- (15) Crankshaft
- (16) Woodruff key

- (17) Crankshaft bearing #1, #3
- (18) Crankshaft bearing #2, #4
- (19) Crankshaft bearing #5

Tightening torque: N⋅m (kgf-m, ft-lb)

- T1: <Ref. to ME(H4DO)-261, INSTALLATION, Cylinder Block.>
- T2: <Ref. to CVT-157, INSTALLA-TION, Drive Plate.>
- T3: <Ref. to CL-13, INSTALLATION, Flywheel.>

10.ENGINE MOUNTING



- (1) Front mounting bracket
- (2) Front cushion rubber
- (3) Engine mounting bracket

Tightening torque: N⋅m (kgf-m, ft-lb)

T1: 25 (2.5, 18.4)

T2: 30 (3.1, 22.1)

T3: 45 (4.6, 33.2)

T4: 60 (6.1, 44.3)

C: CAUTION

- Prior to starting work, pay special attention to the following:
 - 1. Always wear work clothes, a work cap, and protective shoes. Additionally, wear a helmet, protective goggles, etc. if necessary.
 - 2. Protect the vehicle using a seat cover, fender cover, etc.
 - 3. Prepare the service tools, clean cloth, containers to catch grease and oil, etc.
- Vehicle components are extremely hot immediately after driving. Be wary of receiving burns from heated parts.
- When performing a repair, identify the cause of trouble and avoid unnecessary removal, disassembly and replacement.
- Before disconnecting connectors of sensors or units, be sure to disconnect the ground cable from battery.
- Always use the jack-up point when the shop jacks or rigid racks are used to support the vehicle.
- Remove or install the engine in an area where chain hoists, lifting devices, etc. are available for ready use. When lifting up the vehicle, make sure to support the vehicle at the jack-up points.
- Be careful not to let any oil or grease contact the clutch disc or flywheel.
- Remove contamination including dirt and corrosion before removal, installation, disassembly or assembly.
- Keep the removed parts in order and protect them from dust and dirt.
- All removed parts, if to be reused, should be reinstalled in the original positions with attention to the correct directions, etc.
- Rotating parts and sliding parts such as piston, bearing and gear should be coated with oil when being assembled.
- Bolts, nuts and washers should be replaced with new parts as required.
- Be sure to tighten the fasteners including bolts and nuts to the specified torque.

D: PREPARATION TOOL

1. SPECIAL TOOL

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	0920287002000	REMOVER AND REPLACER	Used for removing and installing valve spring.
ST0920287002000			
	398437700	OIL SEAL INSTALLER	Used for installing the front oil seal of engine.
ST-398437700			

A98457000 ST-498457000 A98457100 ENGINE STAND ADAPTER RH ST-498457000 A98457100 ENGINE STAND (499817100) and ADAPTER (18362AA020). ENGINE STAND (499817100) and ADAPTER (18362AA020).
498457000 ENGINE STAND ADAPTER RH * Used for disassembling and assembling engine. * Used together with ENGINE STAND (499817100) and ADAPTER (18362AA020). * Used for disassembling and assembling engine. * Used for disassembling and assembling and assembling engine. * Used for disassembling engine.
498457000 ENGINE STAND ADAPTER RH Used for disassembling and assembling engine. Used together with ENGINE STAND (499817100) and ADAPTER (18362AA020). ST-498457000 ENGINE STAND Used for disassembling and assembling engine. Used together with ENGINE STAND Used for disassembling and assembling engine. Used together with ENGINE STAND Used for disassembling and assembling
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498457100 ENGINE STAND • Used for disassembling and assembling
ADADTED III
ADAPTER LH engine. • Used together with ENGINE STAND
(499817100) and ADAPTER (18362AA020).
ST-498457100
499765700 VALVE GUIDE Used for removing and installing valve guide.
REMOVER AND INSTALLER
ST-499765700
499765900 VALVE GUIDE Used for reaming valve guides.
REAMER

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
	499817100	ENGINE STAND	Used for disassembling and assembling
ST-499817100			engine. • Used together with ADAPTER (18362AA020), ENGINE STAND ADAPTER RH (498457000) and LH (498457100).
01 400017 100	18252AA000	CRANKSHAFT	Used for rotating crankshaft.
ST18252AA000		SOCKET	
	18261AA010	VALVE OIL SEAL	Used for press-fitting of intake valve guide stem
ST18261AA010		GUIDE	seals and exhaust valve guide stem seals.
	18270AA020	SOCKET	Used for removing and installing connecting rod.
ST18270AA020			
	18334AA000	PULLEY WRENCH PIN SET	Used for removing and installing the crank pul- lay.
		FIIN SEI	ley. • Used together with PULLEY WRENCH (18355AA000).
ST18334AA000			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
ST18334AA020	18334AA020	PULLEY WRENCH PIN SET	Used for removing and installing exhaust cam sprocket. Used together with PULLEY WRENCH (18355AA000).
ST18334AA030	18334AA030	PULLEY WRENCH PIN SET	Used for removing and installing water pump pulley and intake cam sprocket. Used together with PULLEY WRENCH (18355AA000).
ST18350AA000	18350AA000	CONNECTING ROD BUSHING REMOVER AND INSTALLER	Used for removing and installing the connecting rod bushing at connecting rod small end.
ST18355AA000	18355AA000	PULLEY WRENCH	Used for installing and removing the water pump pulley. Used for removing and installing the crank pulley. Used for removing and installing intake cam sprocket and exhaust cam sprocket LH. Used together with PULLEY WRENCH PIN SET (18334AA000), PULLEY WRENCH PIN SET (18334AA020) or PULLEY WRENCH PIN SET (18334AA030).
ST18362AA020	18362AA020	ADAPTER	Used for disassembling and assembling engine. Used together with STAND (499817100), ENGINE STAND ADAPTER RH (498457000) and LH (498457100). Bolt used: M10 × 50 (SUBARU genuine Part No.: 010410500)

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
1220011111111111	18471AA000	FUEL PIPE	Used for inspecting the fuel pressure.
		ADAPTER	
ST18471AA000			
	18657AA030	OIL SEAL	Used for installing the rear oil seal of engine.
		INSTALLER	Used together with OIL SEAL GUIDE (18671AA020).
			(1007 174 1025).
ST18657AA030			
	18671AA020	OIL SEAL GUIDE	Used for installing the rear oil seal of engine.
			Used together with OIL SEAL INSTALLER (18657AA030).
ST18671AA020			
	42099AE000	QUICK CONNEC- TOR RELEASE	Used for removing the quick connector.
ST42099AE000	4007540000	FUEL HOSE	Head for in an action that
	42075AG690	FUEL HOSE	Used for inspecting the fuel pressure. NOTE:
			This is the SUBARU genuine part.
ST42075AG690			

ILLUSTRATION	TOOL NUMBER	DESCRIPTION	REMARKS
ST18270KA010	18270KA010	SOCKET	Used for installing and removing intake cam sprocket and exhaust cam sprocket.
ST1B022XU0	1B022XU0	SUBARU SELECT MONITOR III KIT	Used for various inspections.

2. GENERAL TOOL

TOOL NAME	REMARKS
Compression gauge	Used for measuring compression.
Vacuum gauge	Used for measuring intake manifold vacuum.
Oil pressure gauge	Used for measuring engine oil pressure.
Fuel pressure gauge	Used for measuring fuel pressure.
Piston ring compressor	Used for installing the piston into the cylinder block.
Thickness gauge	Used for various inspections.
Angle gauge	Used for angle tightening.