ABBREVIATION CODES

The abbreviation codes that appear in this workshop manual stand for the following, respectively.

Abbreviation code	Original word	Meaning
RH	Right Hand	Refers to right side.
LH	Left Hand	Refers to left side.
FR	FRont	Refers to front side.
RR	ReaR	Refers to rear side.
STD	StanDard	When referring to automotive parts, "standard" represents those parts which have been installed originally by the manufacturer and which have standard dimensions.
O/S	Over Size	In instances where fitting becomes too loose due to wear resulting from use for a long period of time or due to frequent removal/installation operations, if fitting part (e.g. piston) is replaced with a part having larger dimensions, the other mating part may be put into use again. "Over sized" parts denote those parts having larger dimensions compared with standard parts.
U/S	Under Size	In the same manner as with the "oversized" parts, if fitting part (e.g. bush and bearing) is replaced with a part having smaller bore dimensions, the other mating part may be put into use again. "Under sized" part denote those parts having smaller dimensions compared with standard parts.
ATDC	After Top Dead Center	Refers to position of piston in cylinder where piston is near but has passed over the top of the stroke.
BTDC	Before Top Dead Center	Refers to position of piston in cylinder where piston is near but has not reached the top of the stroke.
IN	INtake	Refers to intake system.
EX	EXhaust	Refers to Exhaust system.
PR	Pry Rating	Represents strength of tires. The larger the pry rating number, the stronger the tire strength.
SAE	Society of Automotive Engineers	For example, automotive oils are designated as SAE so and so number. These designation numbers have been set forth by the Society of Automotive Engineers in the United States of America (SAE). The larger the SAE number, the higher the oil viscosity. Conversely, the smaller the SAE number, the lower the oil viscosity.
API	American Petroleum Institute	The standards set forth by the American Petroleum Institute (abbreviated as API Classification) have been employed to evaluate and classify properties of various oils. Engine oils for gasoline engines are classified as SD, SE and so on, whereas engine oils for diesel engines are classified as CC, CD and so on.
SST	Special Service Tool	Refers to a tool designed for a specific purpose.
T	Torque	Refers to tightening torque.
S/A	Sub-AssembIY	Refers to a component comprising more than two single parts which are welded, staked, or studded to each other to form a single component.
Ay/Assy	Assembly	Refers to an assembled component comprising more than two single parts or sub-assembly parts.
W/	With	Denotes that the following part is attached.
L/	Less	Denotes that the following part is not attached.
M/T	Manual Transmission	Refers to manual type transmission.
A/T	Automatic Transmission	Refers to automatic transmission.
T/C	Turbo Charger	
W/G	Waste Gate	Refers to exhaust by-pass.
A/C	Air Cleaner	

WM-01011

List of Abbreviated Component Names of Exhaust Emission Control System

The table below shows abbreviated component names of the exhaust emission control system. The components of the exhaust emission control system are described in this manual in their abbreviated forms.

Abbreviation		Component name
1	BVSV	Bimetal Vacuum Switching Valve
2	C/O	Choke Opener
3	DP	Dashpot
4	VTV	Vacuum Transmitting Valve
5	VS	Vacuum Switch
6	AD	Advance
7	T.P	Throttle Positioner
8	TVSV	Thermostatic Vacuum Switching Valve
9	EGR	Exhaust Gas Recirculation

WM-01012

MAIN SPECIFICATIONS

Item					Engine type	CB-23	CB-61	CB-80
Engine	Type					Petrol, 4-cycle	Petrol, 4-cycle	Petrol, 4-cycle
	Mounting location					Front	Front	Front
	Cylinder No. and arrangement					3-cylinder-in-line, mounted transversely	3-cylinder-in-line, mounted transversely	3-cylinder-in-line, mounted transversely
	Combustion chamber type					Multi-sphere type	Multi-sphere type	Pent roof type
	Valve mechanism					Belt-driven overhead camshaft	Belt-driven overhead camshaft	Belt-driven (DOHC)
	Bore × stroke				mm (inch)	76 × 73 (2.99 × 2.87)	76 × 73 (2.99 × 2.87)	76 × 73 (2.99 × 2.87)
	Compression ratio					9.5	8.0	7.8
	Compression pressure				kg/cm²-rpm (psi-rpm)	12.5 - 350 (177.8 - 350)	12.0 - 350 (170.7 - 350)	10.5 - 300 (149.3 - 300)
	Maximum output	SAE net	kw/rpm	General specifications		38/5,600	50/5,500	74/6,500
		EEC	kw/rpm	Australian specifications		38/5,600	50/5,500	—
		EEC DIN	kw/rpm	ECE & EEC specifications		38/5,600	50/5,500	74/6,500
	Maximum torque	SAE net	Nm/rpm	General specifications		75.5/3,200	106/3,200	130/3,500
		EEC	Nm/rpm	Australian specifications		75.5/3,200	106/3,200	—
		EEC DIN	Nm/rpm	ECE & EEC specifications		75.5/3,200	106/3,500	130/3,500
	Engine dimensions [Length × width × height]				mm (inch)	566 × 530 × 636 (22.28 × 20.87 × 25.04)	563 × 520 × 632 (22.17 × 20.47 × 24.88)	576 × 573 × 624 (22.68 × 22.56 × 24.57)
	Service engine weight				kg (lb)	92 (202.9)	96 (212)	105 (233.7)
	Number of piston rings	Compression ring				2	2	2
		Oil ring				1	1	1
	Valve timing	Intake	Open			19°BTDC	11°BTDC	23°BTDC
			Close			51°ABDC	49°ABDC	51°ABDC
		Exhaust	Open			51°BBDC	49°BBDC	49°BBDC
			Close			19°ATDC	11°ATDC	17°ATDC
	Valve clearance		Intake		mm (inch)	[Hot] 0.20 (0.0079)	[Hot] 0.25 (0.0098)	[Hot] 0.27 (0.0101)
			Exhaust			[Hot] 0.20 (0.0079)	[Hot] 0.25 (0.0098)	[Hot] 0.32 (0.0126)
	Idling speed		Manual transmission		rpm	800 ± 50 (*1000 ± 50)	800 ± 50 (*1000 ± 50)	950 ± 50
			Automatic transmission			850 ± 50 (*1000 ± 50)	—	—
	Blow-by gas recirculating system					Closed type	Closed type	Closed type
Lubricating System	Lubricating method					Fully-forced feed method	Fully-forced feed method	Fully-forced feed method
	Oil Pump type					Trochoid type	Trochoid type	Trochoid type
	Oil filter type					Full-flow filter type,filter paper type	Full-flow filter type, filter paper type	Full-flow filter type, filter paper type
	Lubrication oil capacity	Whole				3.2	3.2	3.3
		When only oil is changed				2.7	2.7	2.7
		When oil and oil filter are changed				3.0	3.0	3.1
	Oil cooler type					Water-cooled type (only for tropical spec.)	Water-cooled type	Water-cooled type
Super charger type						—	Turbocharger	Turbocharger

*Swedish and Norwegian specifications.

WM-01013

Item					Engine type	CB-23	CB-6*	CB-80
Cooling System	Cooling method					Water cooled, electromotor type	Water cooled, electromotor type	Water cooled, electromotor type
	Radiator type					Corrugation type forced circulation	Corrugation type forced circulation	Corrugation type forced circulation
	Coolant capacity liter			Manual transmission		3.5 [Including 0.6 for reserve tank]	3.9 [Including 0.6 for reserve tank]	4.0 [Including 0.6 for reserve tank]
				Automatic transmission		3.9 [Including 0.6 for reserve tank]	—	—
	Water pump type					Centrifugal type, "V" belt-driven type	Centrifugal type, "V" belt-driven type	Centrifugal type, "V" belt-driven type
	Thermostat type					Wax pellet type	Wax pellet type	Wax pellet type
Air cleaner	Type					Filter paper type	Filter paper type	Filter paper type
	Number					1	1	1
Fuel System	Fuel tank	Capacity Liter				37	40	40
		Location				Mounted underneath rear seat floor	Mounted underneath rear seat floor	Mounted underneath rear seat floor
	Fuel pipe material					Rubber and steel tube	Steel tube	Steel tube
	Fuel pump type					Diaphragm type	Electromotor type	Electromotor type
	Fuel filter type					Filter paper type	Filter paper type	Filter paper type
	Carburetor	Manufacturer				Aisan kogyo	Aisan kogyo	—
		Type				Two-barrel type	Two-barrel type	—
		Throttle valve dismeter mm (inch)				28 (1.10), 32 (1.26)	28 (1.10), 32 (1.26)	—
		Venturi diameter mm (inch)				18 (0.71), 25 (0.98)	18 (0.71), 28 (1.10)	—
		Choke valve type				Manual type, butterfly-shaped valve	Manual type, butterfly-shaped valve	—
	Fuel injection device					—	—	Electronic type
	Injection pump	Type				—	—	—
		Injection timing				—	—	—
		Plunger diameter mm (inch)				—	—	—
		Cam lift mm (inch)				—	—	—
		Type of self-aligner				—	—	—
		Type of injection timing regulating device				—	—	—
	Injection nozzle or Injector	Type of nozzle retainer				—	—	With cushion rubber type
		Nozzle type				—	—	Electronic controlled throttle type
		Injection pressure kg/cm² (Psi)				—	—	2.55 (18.4)
Engine electrical system	Ignition system	Voltage V				12 [Negative ground]	12 [Negative ground]	12V [Negative ground]
		Type				Battery ignition type	Battery ignition type	Battery ignition type
		Ignition timing				BTDC 5°±2°/Idling	BTDC 10°±2°/Idling	BTDC 10°±2°/Idling
		Firing order				1–2–3	1–2–3	1–2–3
		Distributor	Distributor type			Conventional type	Conventional type	Full-transistorized type
			Breaker type			Contact-point type	Contact-point type	—
			Performance of timing advancing mechanism	Centrifugal type		0°/750 rpm, 10.5°/2,800 rpm	0°/750 rpm, 13.5°/3,000 rpm	Electronic timing advance
				Vacuum type		0°/-100 mmHg, 11°/–320 mmHg	0°/-60 mmHg, 10°/-450 mmHg	Electronic timing advance

*Plunger stroke: 0.87 ± 0.03 mm (0.035 ± 0.0012 inch)

WM-01014

System	Engine type			CB-23					CB-61				CB-80
Engine electrical system	Ignition system	Spark plug	Manufacturer	DENSO	NGK		BOSCH	CHAMPION	DENSO	NGK	BOSCH	CHAMPION	DENSO
			Type: For ECE & EEC	W16EXR-U	BPR5EA-L	BPR5EY	WR8DC	RN-11YC	W16EXR-U W20EXR-U	BPR5EY BPR6EY	WR8DC WR7DC	RN-9YC RN-11YC	W20ETR-L
			Type: Except for ECE & EEC	W16EX-U	BP5EA-L	BP5EY	W8DC (X,Y)	N-11YC	W16EX-U W20EX-U	BP5EY BP6EY	W8DC (X,Y) W7DC (X,Y)	N-9YC N-11YC	W20ET-L
			Thread	M14 × 1.25					M14 × 1.25				M14 × 1.25
			Spark plug gap mm (inch)	0.7 - 0.8 (0.028 - 0.031)	0.8 - 0.9 (0.031 - 0.035)		0.7 - 0.8 (0.028 - 0.031)		0.7 - 0.8 (0.028 - 0.031)	0.8 - 0.9 (0.032 - 0.035)	0.7 - 0.8 (0.028 - 0.031)		0.9 - 1.0 (0.035 - 0.039)
	Glow plug	Type		—					—				—
		Voltage, current	V-A	—					—				—
	Battery	Type	General specifications	34B17L *1 55B24L					34B17L *1 55B24L				34B17L *1 55B24L
			ECE & EEC specifications	55B24L					55B24L				55B24L
			Australian specifications	34B17L					34B17L				—
		Capacity AH	General specifications	27 (5HR), *1 36 (5HR)					27 (5HR), *1 36 (5HR)				27 (5HR), *1 36 (5HR)
			ECE & EEC specifications	36 (5HR)					36 (5HR)				36 (5HR)
			Australian specifications	27 (5HR)					27 (5HR)				—
	Alternator	Type		3-Phase alternating current commutating type					3-Phase alternating current commutating type				3-Phase alternating current commutating type
		Output	V-A	12-45, *5 12-50					12-45				12-50
		Regulator type		Contact-pointless type					Contact-pointless type				Contact-pointless type
	Starter	Type		Magnet engaging type					Magnet engaging type				Magnet engaging type
		Output	V-kw	*2 12-0.7, *3 12-0.8, *4 12-1.0					12-0.8, *4 12-1.0				12-0.8, *3 12-1.0
	Radio noise suppressing device			Resistive cord					Resistive cord				Resistive cord

*1 Option
*2 General & Australian specifications mounted with manual transmission
*3 ECE & EEC specifications mounted with manual transmission
*4 Vehicles mounted with automatic transmission
*5 Norwegian specifications with automatic transmission mounted model

WM-01015