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GENERAL SAFETY

WARNING

If the engine must be running to do some work, make sure the area is well-ventilated. Never run the engine in a closed area. The exhaust contains poisonous carbon monoxide gas.

WARNING

The battery electrolyte contains sulfuric acid. Protect your eyes, skin and clothing. If electrolyte gets in your eyes, flush them with water and get prompt medical attention.

WARNING

Gasoline is extremely flammable and is explosive under certain conditions. Do not smoke or allow flames or sparks in your working area.

WARNING

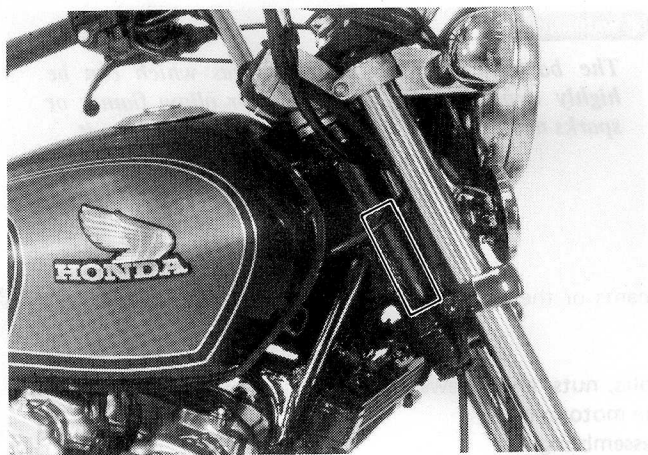
The battery generates hydrogen gas which can be highly explosive. Do not smoke or allow flames or sparks near the battery, especially while charging it.

SERVICE RULES

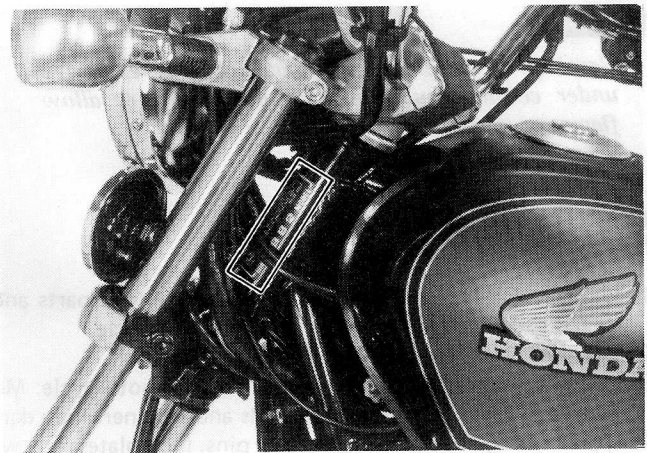
1. Use genuine HONDA or HONDA-recommended parts and lubricants or their equivalent. Parts that do not meet HONDA's design specifications may damage the motorcycle.
2. Use the special tools designed for this product.
3. Use only metric tools when servicing this motorcycle. Metric bolts, nuts, and screws are not interchangeable with English fasteners. The use of incorrect tools and fasteners may damage the motorcycle.
4. Install new gaskets, O-rings, cotter pins, lock plates, etc. when reassembling.
5. When tightening bolts or nuts, begin with larger-diameter or inner bolts first, and tighten to the specified torque diagonally in 2-3 steps, unless a particular sequence is specified.
6. Clean parts in non-flammable or high flash point solvent upon disassembly. Lubricate any sliding surfaces before reassembly.
7. After reassembly, check all parts for proper installation and operation.



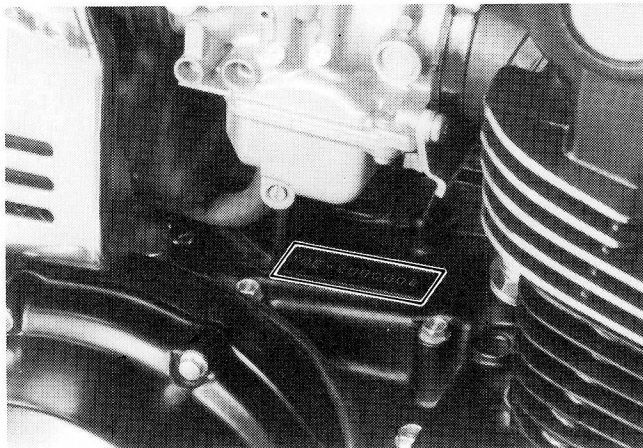
MODEL IDENTIFICATION



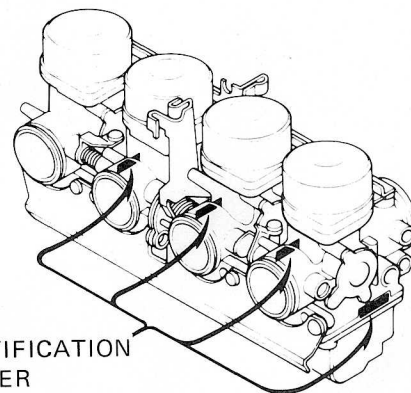
The frame serial number is stamped on the steering head right side.



The vehicle identification number (VIN) is on the steering head left side.



The engine serial number is stamped on top of the right crankcase.



IDENTIFICATION
NUMBER

The carburetor identification number is on the carburetor body left side.



SPECIFICATIONS

ITEM				
DIMENSIONS	Overall length	2,325 mm (91.5 in)		
	Overall width	890 mm (35.0 in)		
	Overall height	1,220 mm (48.0 in)		
	Wheelbase	1,612 mm (63.5 in)		
	Seat height	790 mm (31.1 in)		
	Foot peg height	325 mm (12.8 in)		
	Ground clearance	150 mm (5.9 in)		
	Dry weight	265 kg (584 lb)		
	Curb weight	281.5 kg (620.4 lb)		
FRAME	Type	Double cradle		
	Front suspension	Travel	Telescopic fork 160 mm (6.3 in)	
		Air pressure	40–100 kPa (0.4–1.0 kg/cm ² , 6–14 psi)	
	Rear suspension	Travel	Swing arm 99 mm (3.9 in)	
		Air pressure	0–400 kPa (0–4.0 kg/cm ² , 0–57 psi)	
	Gross vehicle weight rating		497 kg (1,095 lb)	
	Vehicle capacity load		215 kg (475 lb)	
	Front tire size		110/90-18-62H or M110/90-18	
	Rear tire size		140/90-16-67H or M140/90-16	
	Cold tire pressures	Up to 90 kg (200 lbs) load	Front Rear	225 kPa (2.25 kg/cm ² , 32 psi) 225 kPa (2.25 kg/cm ² , 32 psi)
		Up to vehicle capacity load	Front Rear	225 kPa (2.25 kg/cm ² , 32 psi) 280 kPa (2.8 kg/cm ² , 40 psi)
	Front brake, lining swept area		Double disc brake 1,200 cm ² (186.0 sq in)	
	Rear brake, lining swept area		Single disc brake 653 cm ² (101.2 sq in)	
Fuel capacity		16.5 liters (4.4 US gal, 3.6 Imp gal)		
Fuel reserve capacity		3.0 liters (0.8 US gal, 0.7 Imp gal)		
Caster angle		29°		
Trail		99 mm (3.9 in)		
Front fork oil capacity		RIGHT: 455 cc (15.4 ozs) LEFT: 470 cc (15.9 ozs)		
ENGINE	Type	Air cooled 4- stroke DOHC 4-valves per cylinder		
	Cylinder arrangement	4 cylinder in-line		
	Bore and stroke	67.0 x 69.0 mm (2.64 x 2.72 in)		
	Displacement	973 cm ³ (59.4 cu in)		
	Compression ratio	9.0 : 1		
	Valve train	Chain driven DOHC 4 Valves per cylinder		
	Maximum horse power	89.2 BHP/8,000 rpm		
	Maximum torque	8.4 kg-m (60.7 ft-lb)/6,500 rpm		
	Oil capacity	4.5 liters (4.7 US qt, 4.0 Imp qt) after disassembly		
		3.5 liters (3.7 US qt, 3.0 Imp qt) after draining		
	Lubrication system	Forced pressure and wet sump		
	Air filtration	Paper		
	Cylinder compression	12.0 ± 2.0 kg/cm ² (170 ± 28 psi)		
	Intake valve	Opens	10° (BTDC) at 1 mm lift, 63° (BTDC) at 0 lift	
		Closes	35° (ABDC) at 1 mm lift, 98° (ABDC) at 0 lift	
	Exhaust valve	Opens	40° (BBDC) at 1 mm lift, 70° (BBDC) at 0 lift	
		Closes	5° (ATDC) at 1 mm lift, 93° (ATDC) at 0 lift	
Valve clearance (Cold)	IN: } 0.06–0.13 mm (0.002–0.005 in) EX: }			
Engine weight	106 kg (234 lb)			
Idle speed	1,000 ± 100 rpm			



GENERAL INFORMATION

ITEM							
CARBURETION	Carburetor type	VB, 32 mm (1.26 in) venturi bore					
	Identification number	VB55A					
DRIVE TRAIN	Pilot screw initial setting	See page 4-18					
	Float level	15.5 mm (0.61 in)					
	Clutch	Wet, multi-plate					
	Transmission	5-speed constant-mesh with dual range subtransmission					
	Primary reduction	1.000/2.042 : 1					
	Final reduction	3.100					
	Secondary reduction (subtransmission)						
	I (High range)	0.595					
	II (Low range)	0.721					
	Third reduction	1.200					
	Gear ratio I	2.375					
	Gear ratio II	1.789					
	Gear ratio III	1.391					
	Gear ratio IV	1.160					
	Gear ratio V	0.964					
Gear shift pattern	Left foot operated return system, 1-N-2-3-4-5						
Subtransmission gear oil capacity	600 cc (20.3 oz)						
Final drive gear oil capacity	150 cc (5.1 oz)						
ELECTRICAL	Ignition	Transistorized					
	Ignition timing "F-I" mark	10° BTDC at idle					
	Full advance	38.5° BTDC at 3,300 rpm					
	Starting system	Starting motor					
	Alternator	Three phase 266 W/5,000 rpm					
	Battery capacity	12 V - 14 AH					
	Spark plug						
		Standard	<table border="1"> <tr> <td>ND</td> <td>X27ESR-U</td> </tr> <tr> <td>NGK</td> <td>DR8ES</td> </tr> </table>	ND	X27ESR-U	NGK	DR8ES
	ND	X27ESR-U					
	NGK	DR8ES					
	For cold climate below 5°C (41°F)	<table border="1"> <tr> <td>ND</td> <td>X24ESR-U</td> </tr> <tr> <td>NGK</td> <td>DR8ES-L</td> </tr> </table>	ND	X24ESR-U	NGK	DR8ES-L	
ND	X24ESR-U						
NGK	DR8ES-L						
Spark plug gap	0.6-0.7 mm (0.024-0.028 in)						
Firing order	1-2-4-3						
Fuse/Main fuse	15 A/30 A						
LIGHTS	Headlight (high/low beam)	60/55 W H4 BULB (Phillips 12342/99 or equivalent)					
	Tail/stoplight	8/27 W 3/32 cp SAE NO. 1157					
	Front turn signal/running light	23/8 W 32/3 cp SAE NO. 1034					
	Rear turn signal	23 W 32 cp SAE NO. 1073					
	Speedometer light	3.4 W 2 cp SAE NO. 57					
	Tachometer light	3.4 W 2 cp SAE NO. 57					
	Neutral indicator	3.0 W 2 cp					
	Turn signal indicator	3.0 W 2 cp					
	High beam indicator	3.0 W 2 cp					
	Position light	8.0 W 3 cp SAE NO. 1034					



TORQUE VALUES

• ENGINE

Item	Q'ty	Thread Dia (mm)	Torque N·m (kg·m, ft·lb)	Remarks
Cylinder head cover bolts	8	6	8-12 (0.8- 1.2, 6- 9)	<ul style="list-style-type: none"> — Apply molybdenum disulfide grease to threads and underside of nuts — Apply molybdenum disulfide grease to threads and underside of nuts — Apply liquid sealant — Apply LOCTITE® 271 to the threads
Camshaft holder bolts	24	6	12-16 (1.2- 1.6, 9-12)	
Cylinder head bolts	12	10	36-40 (3.6- 4.0, 26-29)	
Camshaft sprocket bolts	4	7	22-26 (2.2- 2.6, 16-19)	
Spark plugs	4		12-19 (1.2- 1.9, 9-14)	
Crankcase bolts		8	21-25 (2.1- 2.5, 15-18)	
Alternator	1	12	80-100 (8.0-10.0, 58-72)	
Primary shaft	1	12	80-100 (8.0-10.0, 58-72)	
Mainshaft	1	16	38-42 (3.8- 4.2, 28-30)	
Connecting rod nuts	8		32 (3.2, 23)	
Oil Filter center bolt	1		28-32 (2.8- 3.2, 20-23)	
Oil pressure switch	1		15-20 (1.5- 2.0, 11-14)	
Neutral switch	1		16-20 (1.6- 2.0, 12-14)	
Oil drain plug	1	14	35-40 (3.5- 4.0, 25-29)	
Oil line	2	10	21-25 (2.1- 2.5, 15-18)	
Spark advancer	1	8	33-37 (3.3- 3.7, 24-27)	
Starting clutch bolts	3	8	26-30 (2.6- 3.0, 19-22)	
Subtransmission	9	8	30-34 (3.0- 3.4, 22-25)	
Oil level check bolt	1	12		
Oil drain bolt	1	8	16-20 (1.6- 2.0, 12-14)	

• CHASSIS

Item	Q'ty	Thread Dia (mm)	Torque N·m (kg·m, ft·lb)	Remarks
Steering stem nut	1	24	80-120 (8.0-12.0, 58-87)	<ul style="list-style-type: none"> — Apply oil to threads and tighten to 20 N·m (2.0 kg·m, 14 ft·lb) when a genuine Honda fairing is installed.
Steering bearing adjustment nut	1	26	14-16 (1.4- 1.6, 10-12)	
Handlebar upper holder bolts	4	8	20-30 (2.0- 3.0, 14-22)	
Front fork top pinch bolts	2	7	9-13 (0.9- 1.3, 7- 9)	
Front fork tube caps	2	31	15-30 (1.5- 3.0, 11-22)	
Front fork bottom pinch bolts	2	10	45-55 (4.5- 5.5, 33-40)	
Axle pinch bolts	4	10	15-25 (1.5- 2.5, 11-18)	
Front axle	1	12	55-65 (5.5- 6.5, 40-47)	
Front fork socket bolts	2	8	15-25 (1.5- 2.5, 11-18)	
Front fork drain bolts	2	6	6- 9 (0.6- 0.9, 4.3-7)	



GENERAL INFORMATION

Item	Q'ty	Thread Dia (mm)	Torque N·m (kg·m, ft·lb)	Remarks
Front brake disc nuts	5		30-35 (3.0- 3.5, 22-25)	UBS
Rear brake disc nuts	5		30-35 (3.0- 3.5, 22-25)	
Rear axle nut	1	18	80-100 (8.0-10.0, 58-72)	
Rear axle holding bolt	1	8	24-29 (2.4- 2.9, 17-21)	
Rear brake pedal holder bolts	2	10	35-45 (3.5- 4.5, 25-33)	
Rear brake pedal	1	8	18-25 (1.8- 2.5, 13-18)	
Rear brake torque link	1	8	18-25 (1.8- 2.5, 13-18)	
Rear shock absorber cap nuts	4	10	30-40 (3.0- 4.0, 22-29)	
Rear shock absorber pin bolt	1	14	40-50 (4.0- 5.0, 29-36)	
Engine hanger bolts	5	10	35-45 (3.5- 4.5, 25-33)	
Rear shock absorber rod lock nuts	2	11	35-60 (3.5- 6.0, 25-43)	
Rear shock absorber air valve (3-way joint)	1	8	4- 7 (0.4- 0.7, 2.9-5.1)	
Rear shock absorber hose connector (3-way joint)	2	8	4- 7 (0.4- 0.7, 2.9-5.1)	
Rear shock absorber hose joints	2	8	4- 7 (0.4- 0.7, 2.9-5.1)	
Rear shock absorber hose joints (3-way)	2	10	15-20 (1.5- 2.0, 11-14)	
3-way joint	1	14	19-23 (1.9- 2.3, 14-17)	
Swing arm pivot bolts				
(Right)	1	35	50-70 (5.0- 7.0, 36-51)	
(Left)	1	35	16-20 (1.6- 2.0, 12-14)	
Swing arm pivot nut	1	35	50-70 (5.0- 7.0, 36-51)	
Oil bolt	1		25-35 (2.5- 3.5, 18-25)	
Front caliper bracket bolts (Right)	2		30-40 (3.0- 4.0, 22-29)	
Upper mount bolt	1		30-40 (3.0- 4.0, 22-29)	
Piston pin bolt	1		20-25 (2.0- 2.5, 14-18)	
Lower mount bolt	1		20-25 (2.0- 2.5, 14-18)	



Item	Q'ty	Thread Dia (mm)	Torque N·m (kg·m, ft·lb)	Remarks
Front caliper bolt	1		20-25 (2.0-2.5, 14-18)	
Front caliper shaft	1		25-30 (2.5-3.0, 18-22)	
Rear caliper bolt	1		20-25 (2.0-2.5, 14-18)	
Rear caliper shaft	1		25-30 (2.5-3.0, 18-22)	
Rear master cylinder bolts	2		20-25 (2.0-2.5, 14-18)	
Final gear case bolts	3	10	35-45 (3.5-4.5, 25-33)	UBS
Final gear case cover bolts	2	10	35-45 (3.5-4.5, 25-33)	
	6	8	23-28 (2.3-2.8, 17-20)	
Final gear case drain bolt	1	6	10-14 (1.0-1.4, 7-10)	
Filler cap bolt	1	30	10-14 (1.0-1.4, 7-10)	
Pinion nut	1	16	40-50 (4.0-5.0, 29-36)	

Torque specifications listed above are for the most important fasteners. Fasteners not listed specifically should be tightened to the standard torque values below.

• STANDARD TORQUE VALUES

Item	Torque Values N·m (kg·m, ft·lb)	Item	Torque Values N·m (kg·m, ft·lb)
5 mm bolt and nut	4- 6 (0.4-0.6, 3- 4)	5 mm screw	3- 5 (0.3-0.5, 3- 4)
6 mm bolt and nut	8-12 (0.8-1.2, 6- 9)	6 mm screw	7-11 (0.7-1.1, 5- 8)
8 mm bolt and nut	18-25 (1.8-2.5, 13-18)	6 mm flange bolt and nut	10-14 (1.0-1.4, 7-10)
10 mm bolt and nut	30-40 (3.0-4.0, 22-29)	8 mm flange bolt and nut	20-30 (2.0-3.0, 14-22)
12 mm bolt and nut	50-60 (5.0-6.0, 36-43)	10 mm flange bolt and nut	30-40 (3.0-4.0, 22-29)

**GENERAL INFORMATION****TOOLS**● **SPECIAL TOOLS**

Tool Name	Tool No.	Q'ty	Ref. page
Vacuum gauge set	07404-0020000	1	3-11,
Oil pressure gauge	07506-3000000	1	2-5,
Oil pressure gauge attachment	07510-4220100	1	2-4,
Primary gear holder	07924-4250000	1	8-6,
Bearing race remover	07953-4250002	1	14-28
Carburetor adjusting wrench	07908-4220100	1	3-12,
Carburetor pilot screw wrench	07908-4220201	1	4-18
Snap ring pliers	07914-3230001	1	14-18, 14-24, 15-10, 17-9
Steering stem socket	07916-3710100	1	14-27, 14-29
6 mm hollow set wrench	07917-3230000	1	14-17, 14-23
Bearing race remover	07946-3710500	1	14-28
Steering stem driver	07946-MB00000	1	14-27
Piston base	07958-3000000	2	7-8
Tool holder set	07964-4220002	1	3-8,
Valve guide reamer 5.5 mm	07984-2000000	1	6-14, 6-15
Piston ring compressor	07954-3690000	2	7-8
Valve lifter bore protector	07999-4220000	1	6-11, 6-17
Socket bit 10 mm	07917-3710000	1	8-6, 15-12, 15-16
Clutch adjusting wrench	07908-3230000	1	3-19
Valve seat cutter 27.5 mm	07780-0010100	1	} 6-16
Valve seat flat cutter 28 mm	07780-0012100	1	
Valve seat flat cutter 25 mm	07780-0012000	1	
Valve seat interior cutter 30 mm	07780-0014000	1	
Valve seat interior cutter 24 mm	07780-0014200	1	
Valve seat cutter holder 5.5 mm	07781-0010100	1	
Retainer wrench A	07910-4610100	1	10-10, 10-14
Retainer wrench B	07910-4610200	1	10-10, 10-12, 16-11
Damper compressor	07964-4610000	1	10-3, 10-7,
Preload inspection tool	07998-4610000	1	10-13,
Subtransmission base	07965-4610000	1	10-9
Bearing driver attachment	07946-8710701	1	14-28,
Clutch center holder	07923-3710000	1	8-4, 8-9
Bearing remover set	07936-8890100	1	15-14
P.V.T. adjust wrench	07908-4690001	1	15-12, 15-16
Final retainer wrench	07910-3710000	1	16-4, 16-6, 16-11
Oil seal driver attachment	07946-6920100	1	16-7, 16-10
Retainer wrench B	07910-4630100	1	16-9



Tool Name	Tool No.	Q'ty	Ref. page
Fork seal driver	07947-3710100	1	15-10
Dis/assembly tool A	07965-3710100	1	16-5
Preload inspection tool	07924-3710000	1	16-9, 16-12, 16-13
Oil seal remover	07948-4630100	1	16-6
Final assembly/disassembly base A	07965-4630100	1	16-3, 16-9
Disassembly tool B	07965-4630300	1	16-5
Oil seal guide	07973-4630100	1	16-10
O-ring guide	07973-4630200	1	16-10, 16-11
Pinion gear dis/assembly tool	07935-MB00000	1	16-12
Fork seal driver	07947-4630100	1	14-23

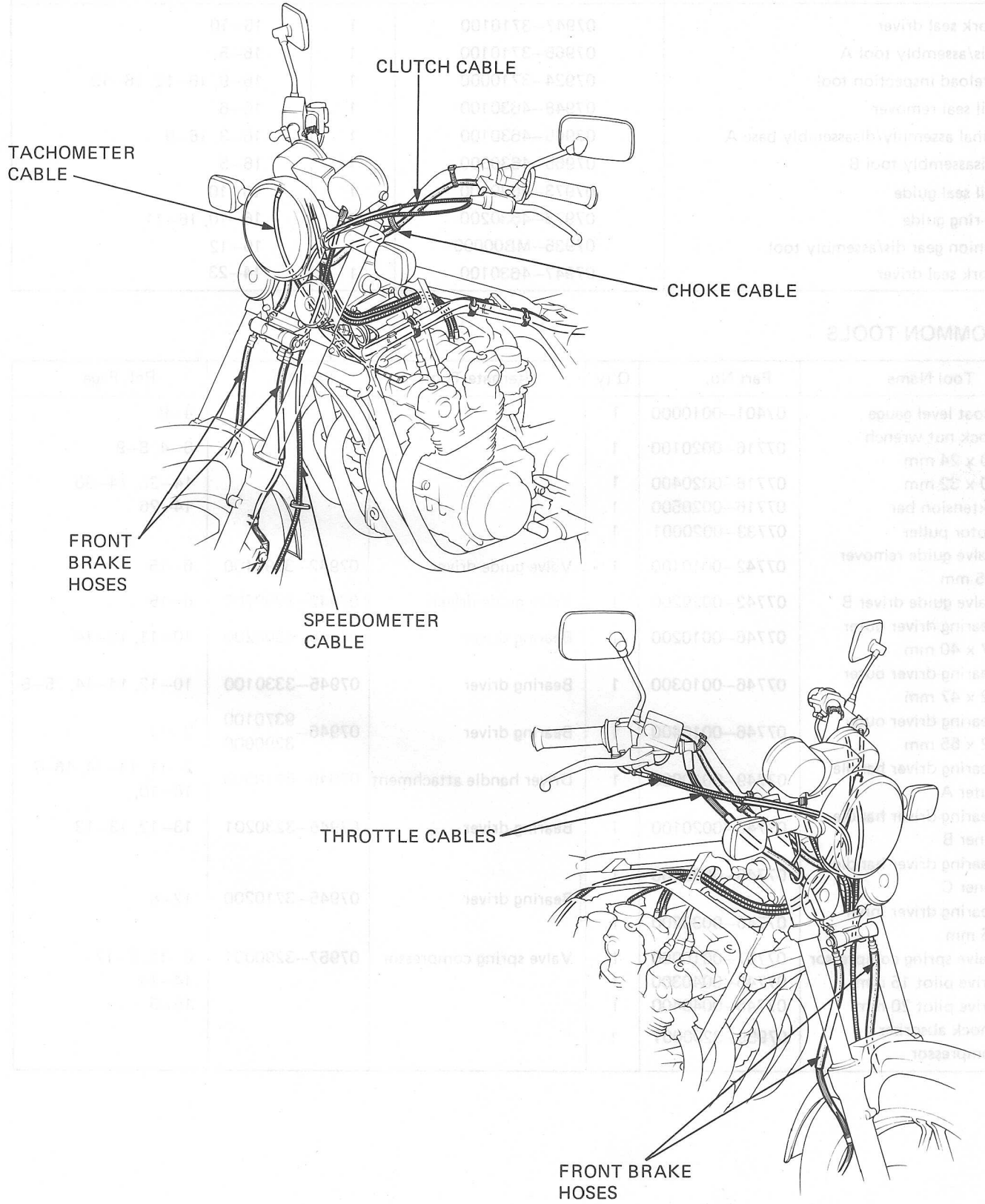
● COMMON TOOLS

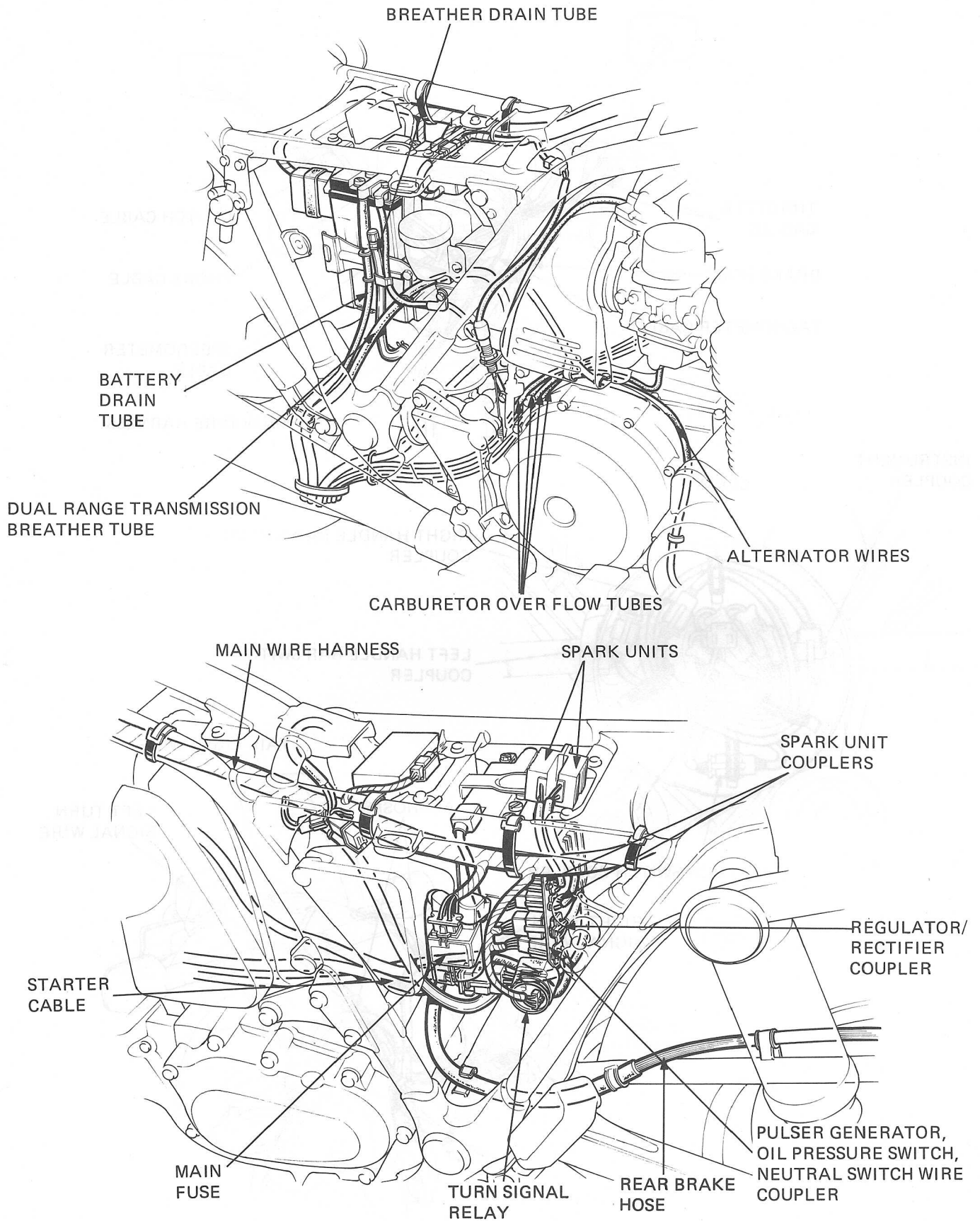
Tool Name	Part No.	Q'ty	Alternate Tool	Part No.	Ref. Page
Float level gauge	07401-0010000	1			4-9
Lock nut wrench 20 x 24 mm	07716-0020100	1			8-4, 8-9
30 x 32 mm	07716-0020400	1			14-26, 14-30
Extension bar	07716-0020500	1			14-26
Rotor puller	07733-0020001	1			
Valve guide remover 5.5 mm	07742-0010100	1	Valve guide driver	07942-3290100	6-15
Valve guide driver B	07742-0020200	1	Valve guide driver	07942-3290200	6-15
Bearing driver outer 37 x 40 mm	07746-0010200	1	Bearing driver	07946-4300200	10-11, 15-14
Bearing driver outer 42 x 47 mm	07746-0010300	1	Bearing driver	07945-3330100	10-12, 14-14, 15-5
Bearing driver outer 52 x 55 mm	07746-0010400	1	Bearing driver	07946-9370100 3290000	2-11,
Bearing driver handle outer A	07749-0010000	1	Driver handle attachment	07949-6110000	2-11, 14-14, 16-7 16-10,
Bearing driver handle Inner B	07746-0020100	1	Bearing driver	07945-3230201	13-12, 13-13
Bearing driver handle Inner C	07746-0030100	1	Bearing driver	07945-3710200	12-8
Bearing driver inner 25 mm	07746-0030200	1			
Valve spring compressor	07757-0010000	1	Valve spring compressor	07957-3290001	6-11, 6-17
Drive pilot 15 mm	07746-0040300	1			14-14
Drive pilot 20 mm	07746-0040400	1			15-5
Shock absorber c. compressor	07959-3290001	1			



GENERAL INFORMATION

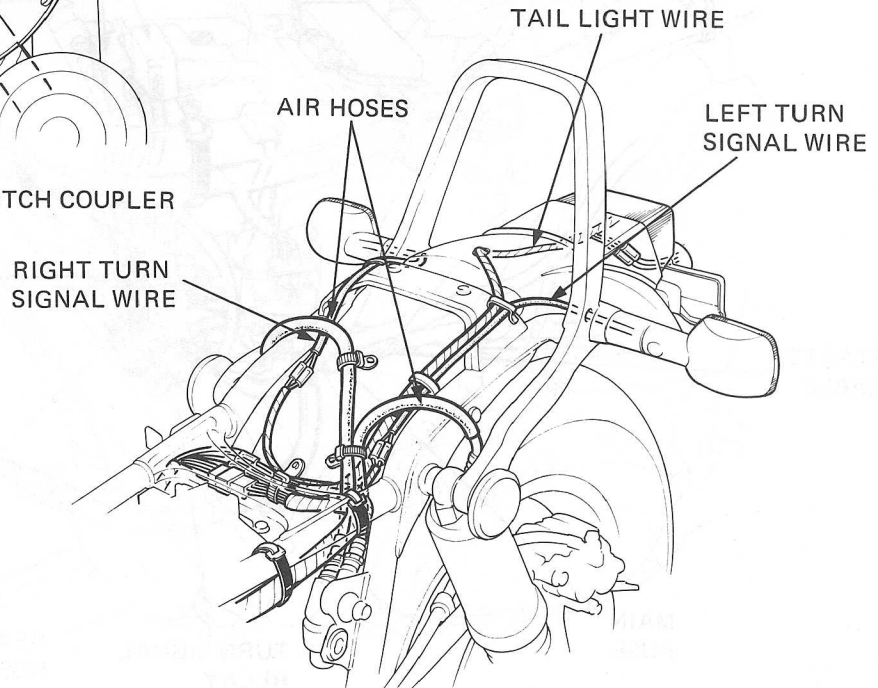
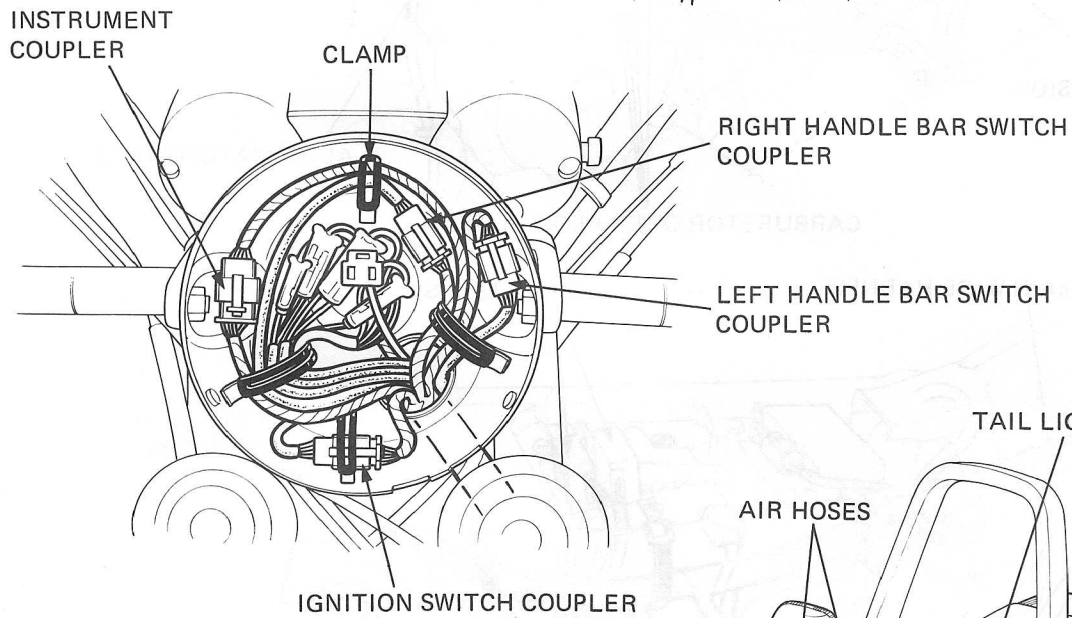
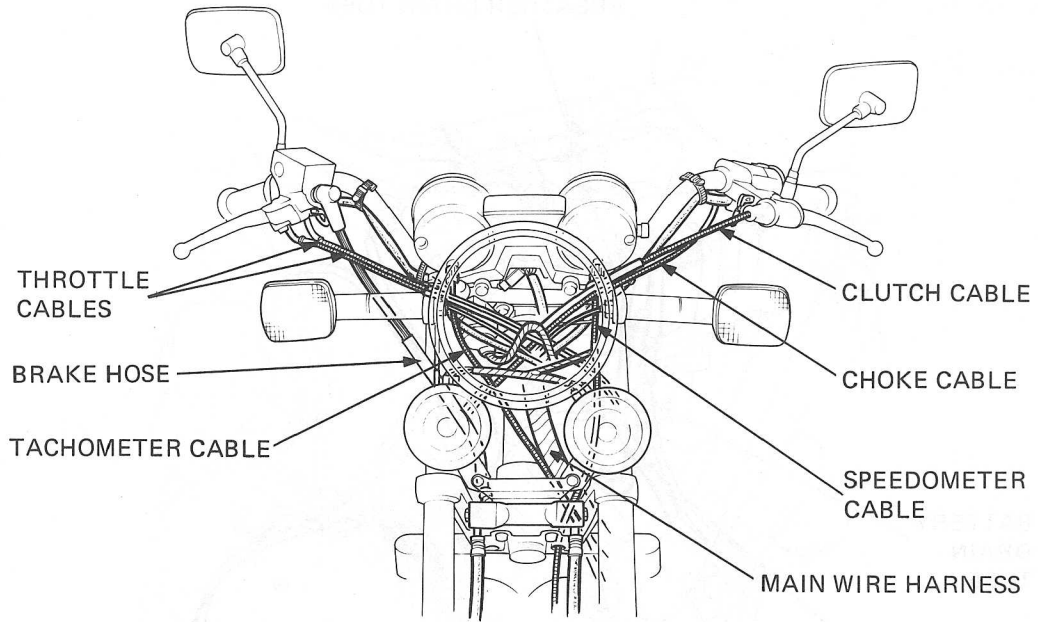
CABLE & HARNESS ROUTING







GENERAL INFORMATION





EMISSION CONTROL SYSTEM

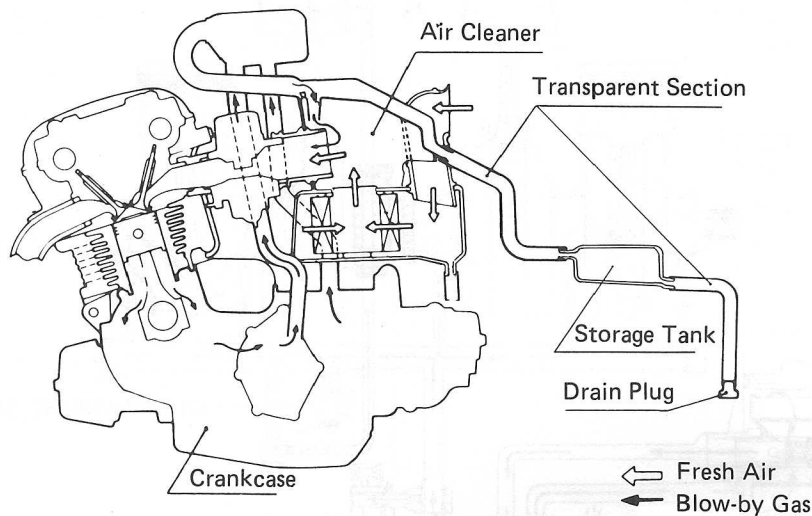
The CB1000C is equipped with two Emission Control Systems.

EXHAUST EMISSION CONTROL SYSTEM

The exhaust emission control system is composed of lean carburetor settings, and no adjustments should be made except idle speed adjustment with the throttle stop screw. The exhaust emission control system is separate from the crankcase emission control system.

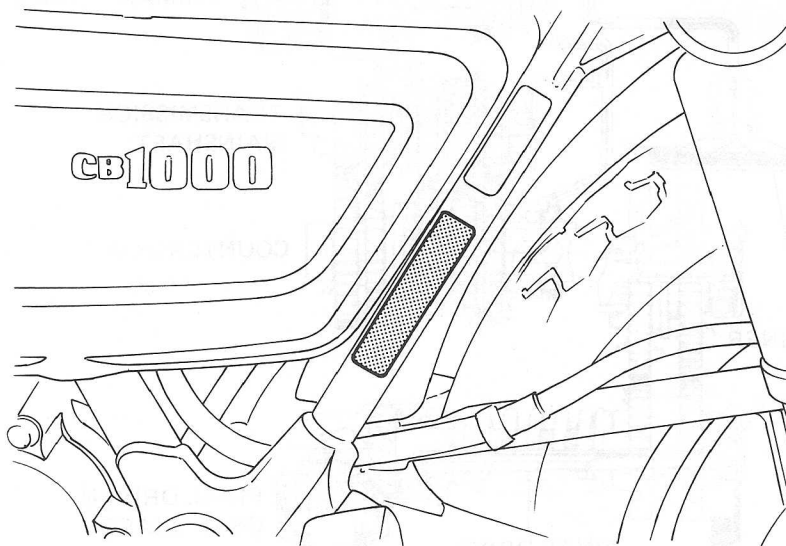
CRANKCASE EMISSION CONTROL SYSTEM

The engine is equipped with a closed crankcase system to prevent discharging crankcase emissions into the atmosphere. Blow-by gas is returned to the combustion chamber through the air cleaner and carburetor. Liquids are collected in the storage tank.



EMISSION CONTROL INFORMATION LABEL

An Emission Control Information Label is located on the frame as shown. It contains basic tune-up specifications.



Vehicle Emission Control Information Label