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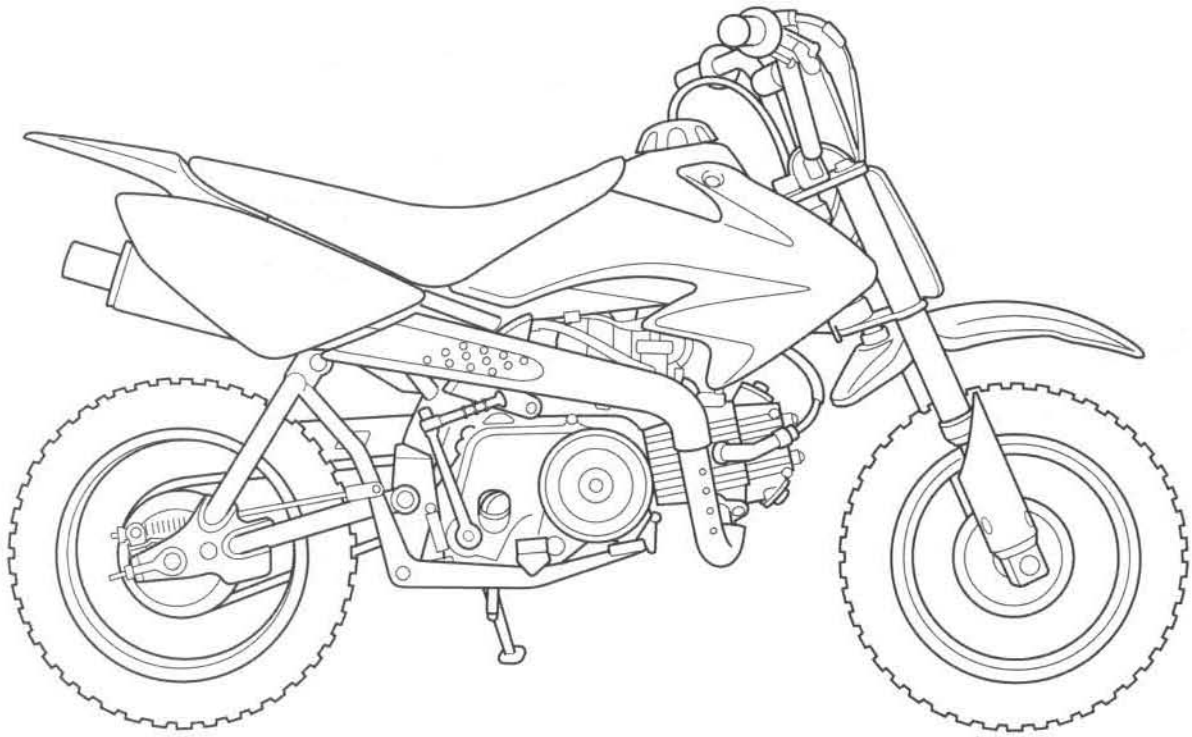
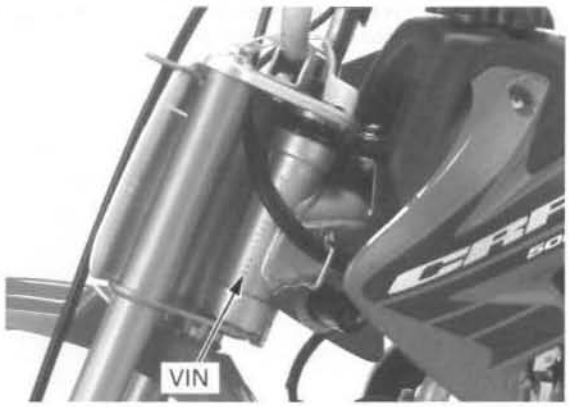
SERVICE RULES

1. Use genuine Honda or Honda-recommended parts and lubricants or their equivalents. Parts that don't meet Honda's design specifications may cause damage to the motorcycle.
2. Use the special tools designed for this product to avoid damage and incorrect assembly.
3. Use only metric tools when servicing the motorcycle. Metric bolts, nuts and screws are not interchangeable with English fasteners.
4. Install new gaskets, O-rings, cotter pins, and lock plates when reassembling.
5. When tightening bolts or nuts, begin with the larger diameter or inner bolt first. Then tighten to the specified torque diagonally in incremental steps unless a particular sequence is specified.
6. Clean parts in cleaning solvent upon disassembly. Lubricate any sliding surfaces before reassembly.
7. After reassembly, check all parts for proper installation and operation.
8. Route all electrical wires as shown on page 1-14, Cable and Harness Routing.

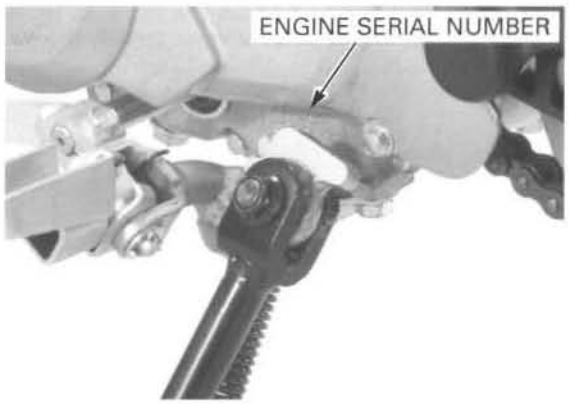
MODEL IDENTIFICATION



The Vehicle Identification Number (VIN) is stamped on the left side of the steering head.

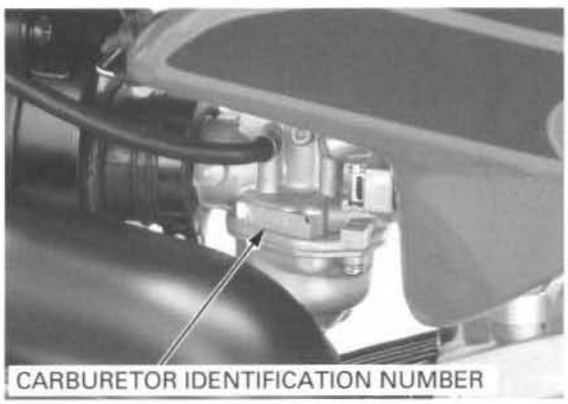


The engine serial number is stamped on the lower left side of the crankcase.



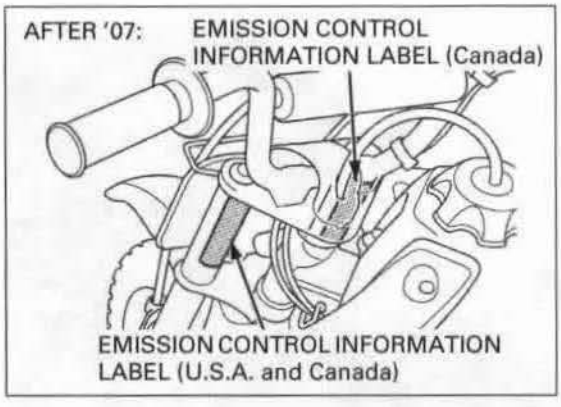
The model identification label (U.S.A.) or the safety Certification label (Canada) is located on right side of the steering head.

The carburetor identification number is stamped on the right side of the carburetor body as shown.

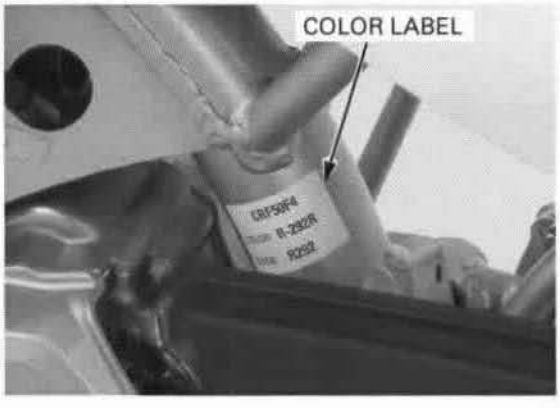


'04 – '07: The Vehicle Emission Control Information Label is attached on the reverse side of the left side cover.

After '07: The Vehicle Emission Control Information Label is attached to the left front fork (U.S.A.) or both front forks (Canada).



The color label is attached on the left side of the main frame. When ordering color-coded parts, always specify the designated color code.



GENERAL SPECIFICATIONS

ITEM				SPECIFICATION
DIMENSIONS	Overall length			1,302 mm (51.2 in)
	Overall width			581 mm (22.9 in)
	Overall height			774 mm (30.5 in)
	Wheelbase			911 mm (35.9 in)
	Seat height			548 mm (21.6 in)
	Footpeg height			209 mm (8.2 in)
	Ground clearance			146 mm (5.8 in)
	Curb weight			50 kg (110 lbs)
	Maximum weight capacity			40 kg (88 lbs)
FRAME	Frame type			Back bone
	Front suspension			Telescopic fork
	Front wheel travel			87 mm (3.4 in)
	Rear suspension			Swingarm
	Rear wheel travel			70 mm (2.8 in)
	Rear damper			Conventional type oil damper
	Front tire size			2.50–10 33J
	Rear tire size			2.50–10 33J
	Tire brand (CHENG SHIN)			Front/Rear: C-183A
	Front brake			Internal expanding shoe
	Rear brake			Internal expanding shoe
	Caster angle			25° 00′
	Trail length			32 mm (1.3 in)
	Fuel tank capacity		('04 – '07)	3.0 liter (0.79 US gal, 0.66 Imp gal)
			(After '07)	2.6 liter (0.69 US gal, 0.57 Imp gal)
	Fuel tank reserve capacity		('04 – '07)	0.9 liter (0.24 US gal, 0.20 Imp gal)
			(After '07)	0.7 liter (0.18 US gal, 0.15 Imp gal)
ENGINE	Bore and stroke			39.0 x 41.4 mm (1.54 x 1.63 in)
	Displacement			49 cm^3 (3.0 cu-in)
	Compression ratio			10.0 : 1
	Valve train			Chain driven, OHC with rocker arm
	Intake valve	opens	at 1 mm (0.04 in) lift	7.5° BTDC
		closes	at 1 mm (0.04 in) lift	12.5° ABDC
	Exhaust valve	opens	at 1 mm (0.04 in) lift	22.5° BBDC
		closes	at 1 mm (0.04 in) lift	2.5° BTDC
	Lubrication system			Forced pressure and wet sump
	Oil pump type			Trochoid
	Cooling system			Air cooled
	Air filtration			Oiled polyurethane foam
	Crankshaft type			Assembled type
	Engine dry weight			17.2 kg (37.9 lbs)
	Cylinder arrangement			Single cylinder inclined 80° from vertical
CARBURETOR	Carburetor type			Piston valve
	Throttle bore			13 mm (0.5 in)
DRIVE TRAIN	Clutch system			Multi-plate, wet
	Clutch operation system			Automatic centrifugal
	Transmission			3-speed
	Primary reduction			4.058 (69/17)
	Final reduction			2.642 (37/14)
	Gear ratio		1st	3.272 (36/11)
			2nd	1.667 (25/15)
			3rd	1.190 (25/21)
	Gearshift pattern			Left foot operated return system, N –1 –2–3

LUBRICATION SYSTEM SPECIFICATIONS

Unit: mm (in)

ITEM		STANDARD	SERVICE LIMIT
Engine oil capacity	At draining	0.6 liter (0.6 US qt, 0.5 Imp qt)	–
	At disassembly	0.8 liter (0.8 US qt, 0.7 Imp qt)	–
Recommended engine oil		Pro Honda GN4 4-stroke oil (U.S.A. and Canada) or equivalent motor oil API service classification: SG or higher JASO T 903 standard: MA Viscosity: SAE 10W-30	–
Oil pump rotor	Tip clearance	0.15 (0.006)	0.20 (0.008)
	Body clearance	0.02 – 0.07 (0.001 – 0.003)	0.12 (0.005)
	Side clearance	0.10 – 0.15 (0.004 – 0.006)	0.20 (0.008)

FUEL SYSTEM SPECIFICATIONS

ITEM		SPECIFICATIONS
Carburetor identification number	'04 and '05 U.S.A., '04 – '07 Canada:	PA42A
	'06 and '07 U.S.A:	PA42B
	After '07:	PA42C
Main jet		#58
Slow jet		#35 x #35
Jet needle clip position ('04 and '05 U.S.A., '04 – '07 Canada)		2rd groove from top
Air screw initial opening		1-1/2 turns out
Float level		12.7 mm (0.50 in)
Idle speed		1,700 ± 100 rpm
Throttle grip free play		2.0 – 4.0 mm (1/16 – 3/16 in)

CYLINDER HEAD/VALVES SPECIFICATIONS

Unit: mm (in)

ITEM			STANDARD	SERVICE LIMIT
Cylinder compression			981 – 1,177 kPa (10.0 – 12.0 kgf/cm^2, 142 – 171 psi) at 1,000 rpm	–
Cylinder head warpage			–	0.05 (0.002)
Valve and valve guide	Valve clearance	IN/EX	0.05 ± 0.02 (0.002 ± 0.001)	–
	Valve stem O.D.	IN	4.970 – 4.985 (0.1957 – 0.1963)	4.92 (0.194)
		EX	4.955 – 4.970 (0.1951 – 0.1957)	4.92 (0.194)
	Valve guide I.D.	IN/EX	5.000 – 5.012 (0.1969 – 0.1973)	5.03 (0.198)
	Stem-to-guide clearance	IN	0.015 – 0.042 (0.0006 – 0.0017)	0.08 (0.003)
		EX	0.030 – 0.057 (0.0012 – 0.0022)	0.10 (0.004)
	Valve seat width	IN/EX	1.0 – 1.3 (0.04 – 0.05)	2.0 (0.08)
Valve spring free length		IN/EX	33.34 (1.313)	31.8 (1.25)
Rocker arm/ shaft	Rocker arm I.D.	IN/EX	10.000 – 10.015 (0.3937 – 0.3943)	10.10 (0.398)
	Rocker arm shaft O.D.	IN/EX	9.978 – 9.987 (0.3928 – 0.3932)	9.91 (0.390)
Camshaft	Cam lobe height	IN	20.003 – 20.123 (0.7875 – 0.7922)	19.66 (0.774)
		EX	19.994 – 20.114 (0.7872 – 0.7919)	19.65 (0.774)

CYLINDER/PISTON SPECIFICATIONS

Unit: mm (in)

ITEM			STANDARD	SERVICE LIMIT
Cylinder	I.D.		39.005 – 39.015 (1.5356 – 1.5360)	39.05 (1.537)
	Out of round		–	0.10 (0.004)
	Taper		–	0.10 (0.004)
	Warpage		–	0.05 (0.002)
Piston, piston ring	Piston mark direction		"IN" mark facing toward the intake side	–
	Piston O.D.		38.975 – 38.995 (1.5344 – 1.5352)	38.90 (1.531)
	Piston O.D. measurement point		8 mm (0.3 in) from bottom of skirt	–
	Piston pin bore I.D.		13.002 – 13.008 (0.5119 – 0.5121)	13.06 (0.514)
	Piston pin O.D.		12.994 – 13.000 (0.5116 – 0.5118)	12.98 (0.511)
	Piston-to-piston pin clearance		0.002 – 0.014 (0.0001 – 0.0006)	0.08 (0.003)
	Piston ring-to-ring groove clearance	Top/Second	0.015 – 0.050 (0.0006 – 0.0020)	0.12 (0.005)
	Piston ring end gap	Top	0.05 – 0.15 (0.002 – 0.006)	0.5 (0.02)
		Second	0.05 – 0.20 (0.002 – 0.008)	0.5 (0.02)
		Oil (side rail)	0.3 – 0.9 (0.01 – 0.04)	1.1 (0.04)
Cylinder-to-piston clearance			0.010 – 0.040 (0.0004 – 0.0016)	0.15 (0.006)
Connecting rod small end I.D.			13.016 – 13.034 (0.5124 – 0.5131)	13.08 (0.515)
Connecting rod-to-piston pin clearance			0.016 – 0.040 (0.0006 – 0.0016)	0.12 (0.005)

CLUTCH/GEARSHIFT LINKAGE SPECIFICATIONS

Unit: mm (in)

ITEM		STANDARD	SERVICE LIMIT
Clutch disc thickness	A	2.52 – 2.68 (0.099 – 0.106)	2.3 (0.09)
	B	3.32 – 3.48 (0.131 – 0.137)	3.0 (0.12)
Clutch plate warpage		–	0.20 (0.008)
Centrifugal clutch spring free length		22.4 (0.88)	19.4 (0.76)
Primary drive gear I.D.		21.000 – 21.021 (0.8268 – 0.8276)	21.05 (0.829)
Clutch center guide	I.D.	16.988 – 17.006 (0.6688 – 0.6695)	17.04 (0.671)
	O.D.	20.930 – 20.950 (0.8240 – 0.8248)	20.90 (0.823)
Crankshaft O.D. at clutch center guide		16.966 – 16.984 (0.6680 – 0.6687)	16.90 (0.665)

ALTERNATOR/CAM CHAIN TENSIONER SPECIFICATIONS

Unit: mm (in)

ITEM		STANDARD	SERVICE LIMIT
Cam chain tensioner	Push rod O.D.	11.985 – 12.000 (0.4718 – 0.4724)	11.94 (0.470)
	Spring free length	111.3 (4.38)	100 (3.9)

CRANKSHAFT/TRANSMISSION/KICKSTARTER SPECIFICATIONS

Unit: mm (in)

ITEM			STANDARD	SERVICE LIMIT
Crankshaft	Side clearance		0.010 – 0.350 (0.0004 – 0.0138)	0.60 (0.024)
	Radial clearance		0 – 0.012 (0 – 0.0005)	0.05 (0.002)
	Runout		–	0.10 (0.004)
Transmission	Gear I.D.	M2	17.016 – 17.043 (0.6699 – 0.6710)	17.10 (0.673)
		C1	23.020 – 23.053 (0.9063 – 0.9076)	23.10 (0.909)
		C3	20.020 – 20.053 (0.7882 – 0.7895)	20.10 (0.791)
	Busing O.D.	C1	22.979 – 23.000 (0.9047 – 0.9055)	22.93 (0.903)
	Busing I.D.	C1	20.000 – 20.021 (0.7874 – 0.7882)	20.08 (0.791)
	Gear-to-bushing clearance	C1	0.020 – 0.074 (0.0008 – 0.0029)	0.10 (0.004)
	Mainshaft O.D.	M2	16.966 – 16.984 (0.6680 – 0.6687)	16.95 (0.667)
	Countershaft O.D.	C1	19.959 – 19.980 (0.7858 – 0.7866)	19.94 (0.785)
	Gear-to-shaft clearance	M2	0.032 – 0.077 (0.0013 – 0.0030)	0.10 (0.004)
	Gear bushing-to-shaft clearance	C1	0.020 – 0.062 (0.0008 – 0.0024)	0.10 (0.004)
Shift fork	I.D.		34.075 – 34.100 (1.3415 – 1.3425)	34.14 (1.344)
	Claw thickness		4.86 – 4.94 (0.191 – 0.194)	4.60 (0.181)
	Shift drum O.D.		33.950 – 33.975 (1.3366 – 1.3376)	33.93 (1.336)

FRONT WHEEL/BRAKE/SUSPENSION/STEERING SPECIFICATIONS

Unit: mm (in)

ITEM		STANDARD	SERVICE LIMIT
Minimum tire tread depth		–	3.0 (0.12)
Cold tire pressure		100 kPa (1.00 kgf/cm^2, 15 psi)	–
Axle runout		–	0.20 (0.008)
Wheel rim-to-hub distance		6.3 ± 1.0 (0.25 ± 0.04)	–
Wheel rim runout	Radial	–	2.0 (0.08)
	Axial	–	2.0 (0.08)
Brake	Brake lever free play	10 – 20 (3/8 – 13/16)	–
	Brake drum I.D.	80 (3.1)	80.5 (3.17)
	Brake lining thickness	3.5 (0.14)	2.0 (0.08)
Fork	Spring free length	160.8 (6.33)	158.3 (6.23)

REAR WHEEL/BRAKE/SUSPENSION SPECIFICATIONS

Unit: mm (in)

ITEM		STANDARD	SERVICE LIMIT
Minimum tire tread depth		–	3.0 (0.12)
Cold tire pressure		125 kPa (1.25 kgf/cm^2, 18 psi)	–
Axle runout		–	0.20 (0.008)
Wheel rim-to-hub distance		25 ± 1.0 (1.0 ± 0.04)	–
Wheel rim runout	Radial	–	2.0 (0.08)
	Axial	–	2.0 (0.08)
Drive chain	Size/link	DID420MBK1/78	–
	Slack	15 – 25 (9/16 – 1)	–
Brake	Brake pedal free play	10 – 20 (3/8 – 13/16)	–
	Brake drum I.D.	80 (3.1)	80.5 (3.17)
	Brake lining thickness	3.5 (0.14)	2.0 (0.08)

IGNITION SYSTEM SPECIFICATIONS

ITEM		SPECIFICATION	
Spark plug	Standard	CR6HSA (NGK)	U20FSR-U (DENSO)
	For cold climate (below 41°F/5°C)	CR5HSA (NGK)	U16FSR-U (DENSO)
	For extended high speed riding	CR7HSA (NGK)	U22FSR-U (DENSO)
Spark plug gap		0.60 – 0.70 mm (0.024 – 0.028 in)	
Ignition coil peak voltage		100 V minimum	
Ignition pulse generator peak voltage		0.7 V minimum	
Alternator exciter coil peak voltage		100 V minimum	
Ignition timing ("F" mark)		27° BTDC at idle	

TORQUE VALUES

STANDARD

FASTENER TYPE	TORQUE N·m (kgf·m, lbf·ft)	FASTENER TYPE	TORQUE N·m (kgf·m, lbf·ft)
5 mm hex bolt and nut	4.9 (0.5, 3.6)	5 mm screw	3.9 (0.4, 2.9)
6 mm hex bolt and nut	9.8 (1.0, 7)	6 mm screw	8.8 (0.9, 6.5)
8 mm hex bolt and nut	22 (2.2, 16)	6 mm flange bolt (8 mm head, small head)	9.8 (1.0, 7)
10 mm hex bolt and nut	34 (3.5, 25)	6 mm flange bolt (8 mm head, large flange)	12 (1.2, 9)
12 mm hex bolt and nut	54 (5.5, 40)	6 mm flange bolt (10 mm head) and nut	12 (1.2, 9)
		8 mm flange bolt and nut	26 (2.7, 20)
		10 mm flange bolt and nut	39 (4.0, 29)

- Torque specifications listed below are for specified fasteners.
- Others should be tightened to standard torque values listed above.

NOTES:

1. Apply oil to the threads.
2. Apply grease to the seating surface.
3. U-nut
4. ALOC bolt; replace with a new one.

ENGINE

MAINTENANCE

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Spark plug ('04 and '05)	1	10	12 (1.2, 9)	
Spark plug (After '05)	1	10	16 (1.6, 12)	
Oil drain bolt	1	12	25 (2.5, 18)	
Valve adjuster hole cap	2	30	12 (1.2, 9)	NOTE 1
Valve adjuster lock nut	2	5	8.8 (0.9, 6.5)	
Clutch adjuster lock nut	1	8	12 (1.2, 9)	

LUBRICATION

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Oil pump mounting screw	3	6	7.4 (0.75, 5.5)	
Oil pump cover screw	3	5	4.7 (0.48, 3.5)	

ENGINE REMOVAL/INSTALLATION

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Drive sprocket fixing plate bolt	2	6	12 (1.2, 9)	

CYLINDER HEAD/VALVES

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Cylinder head cover nut/cap nut	1/3	6	11 (1.1, 8)	
Cylinder head right side cover bolt	2	6	9.8 (1.0, 7)	
Cam sprocket bolt	2	5	8.8 (0.9, 6.5)	

CYLINDER/PISTON

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Cam chain guide roller pin bolt	1	8	9.8 (1.0, 7)	

CLUTCH/GEARSHIFT LINKAGE

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Clutch outer cover screw	4	5	4.4 (0.45, 3.3)	
Clutch lock nut	1	14	42 (4.3, 31)	
Clutch assembly screw	4	5	5.9 (0.6, 4.3)	
Shift drum stopper arm bolt	1	6	13 (1.3, 9)	
Shift return spring pin bolt	1	8	29 (3.0, 22)	
Gearshift cam plate bolt	1	6	17 (1.7, 12)	

ALTERNATOR/CAM CHAIN TENSIONER

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Flywheel nut	1	10	41 (4.2, 30)	
Cam chain tensioner sealing bolt	1	14	23 (2.3, 17)	
Cam chain tensioner pivot bolt	1	8	16 (1.6, 12)	

CRANKSHAFT/TRANSMISSION/KICKSTARTER

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Shift drum bolt	1	6	12 (1.2, 9)	

FRAME

FRAME/BODY PANELS/EXHAUST SYSTEM

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Side stand pivot bolt	1	10	–	page 2-7
Muffler mounting bolt	1	8	26 (2.7, 20)	
Exhaust pipe protector bolt	3	6	15 (1.5, 11)	
Exhaust pipe cover screw	4	5	5.9 (0.6, 4.3)	

MAINTENANCE

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Fuel valve mounting bolt	2	6	9.8 (10, 7)	
			NEW	

FUEL SYSTEM

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Connecting boot band screw	1	4	1.0 (0.1, 0.7)	

ENGINE REMOVAL/INSTALLATION

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Engine hanger nut	2	8	31 (3.2, 23)	

FRONT WHEEL/BRAKE/SUSPENSION/STEERING

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Handlebar mounting nut	2	8	20 (2.0, 14)	
Engine stop switch holder screw	2	5	2.9 (0.3, 2.2)	
Brake lever pivot bolt	1	5	2.9 (0.3, 2.2)	
Brake lever pivot nut	1	5	2.9 (0.3, 2.2)	
Spoke nipple	28	B.C 23	2.0 (0.2, 1.4)	
Front axle nut	1	12	47 (4.8, 35)	NOTE 3
Front brake arm nut	1	5	5.9 (0.6, 4.3)	NOTE 4
Fork protector bolt	4	6	9.8 (1.0, 7)	
Steering stem nut	1	22	74 (7.5, 54)	
Steering stem top thread	1	22	–	page 12-20

REAR WHEEL/BRAKE/SUSPENSION

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Spoke nipple	28	BC 2.3	2.0 (0.2, 1.4)	
Rear axle nut	1	12	47 (4.8, 35)	NOTE 3
Driven sprocket nut	4	8	32 (3.3, 24)	NOTE 3
Rear brake arm nut	1	5	5.9 (0.6, 4.3)	NOTE 4
Swingarm pivot nut	1	10	39 (4.0, 29)	NOTE 2,3
Shock absorber mounting nut	2	10	34 (3.5, 25)	NOTE 3
Drive chain slider nut	1	6	12 (1.2, 9)	NOTE 3

IGNITION SYSTEM

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
Ignition coil mounting bolt	1	5	5.9 (0.6, 4.3)	

LUBRICATION & SEAL POINTS

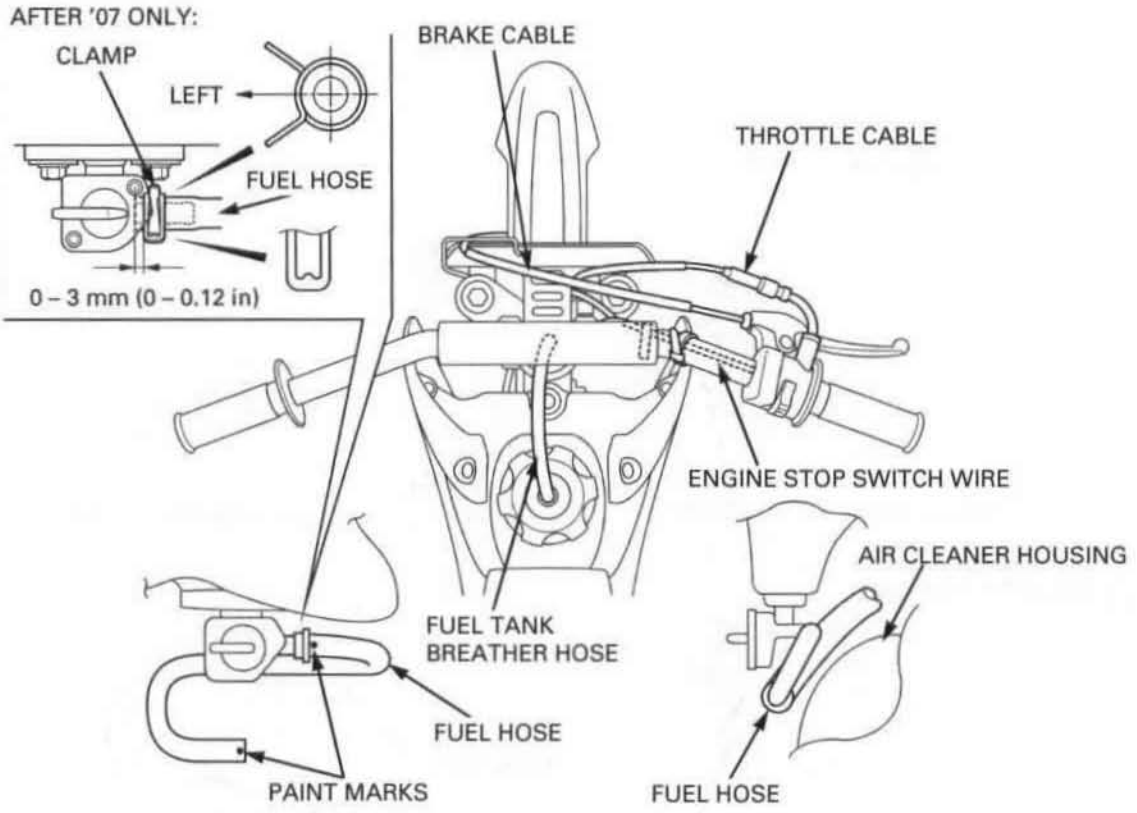
ENGINE

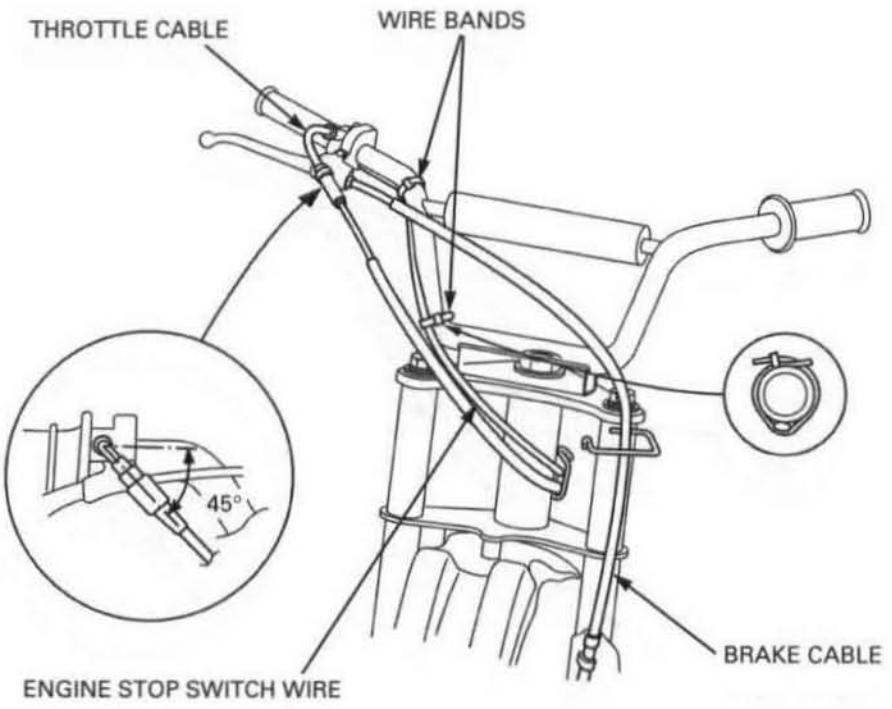
LOCATION	MATERIAL	REMARKS
Cylinder bore surface	Engine oil	
Valve adjuster hole cap threads		
Connecting rod big end bearing		pour 1 – 2 cm^3
Connecting rod small end inner surface		
Piston outer surface, piston pin hole and ring grooves		
Piston pin outer surface		
Piston ring (whole surface)		
Valve stem sliding surface		
Camshaft lobes		
Cam chain		
Cam chain guide roller inner surface		
Rocker arm inner and slipper surfaces		
Cam chain tensioner push rod (inside)		Fill with 1 – 2 cm^3 (page 10-7)
Oil pump rotors		Fill with 0.5 – 1 cm^3
Clutch center guide (whole surface)		
Clutch discs		
Primary drive gear teeth and inner surface		
Primary driven gear teeth		
Mainshaft sliding surface		
Countershaft sliding surface		
Transmission gear sliding surface, gear teeth and shifter groove		
Shift drum outer surface		
Kickstarter spindle sliding surface		
Other rotating and sliding area		
Each bearing rotating area		
Each oil seal lips		
Each O-ring		

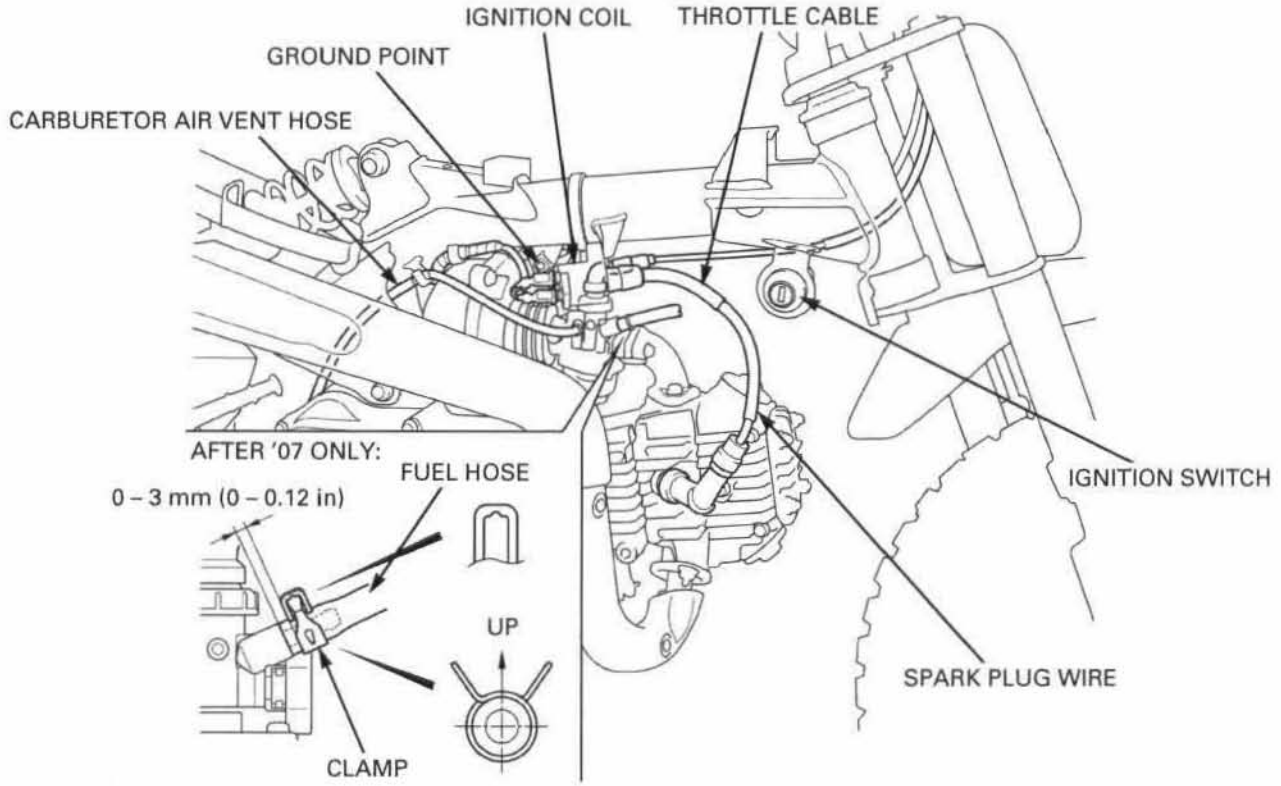
FRAME

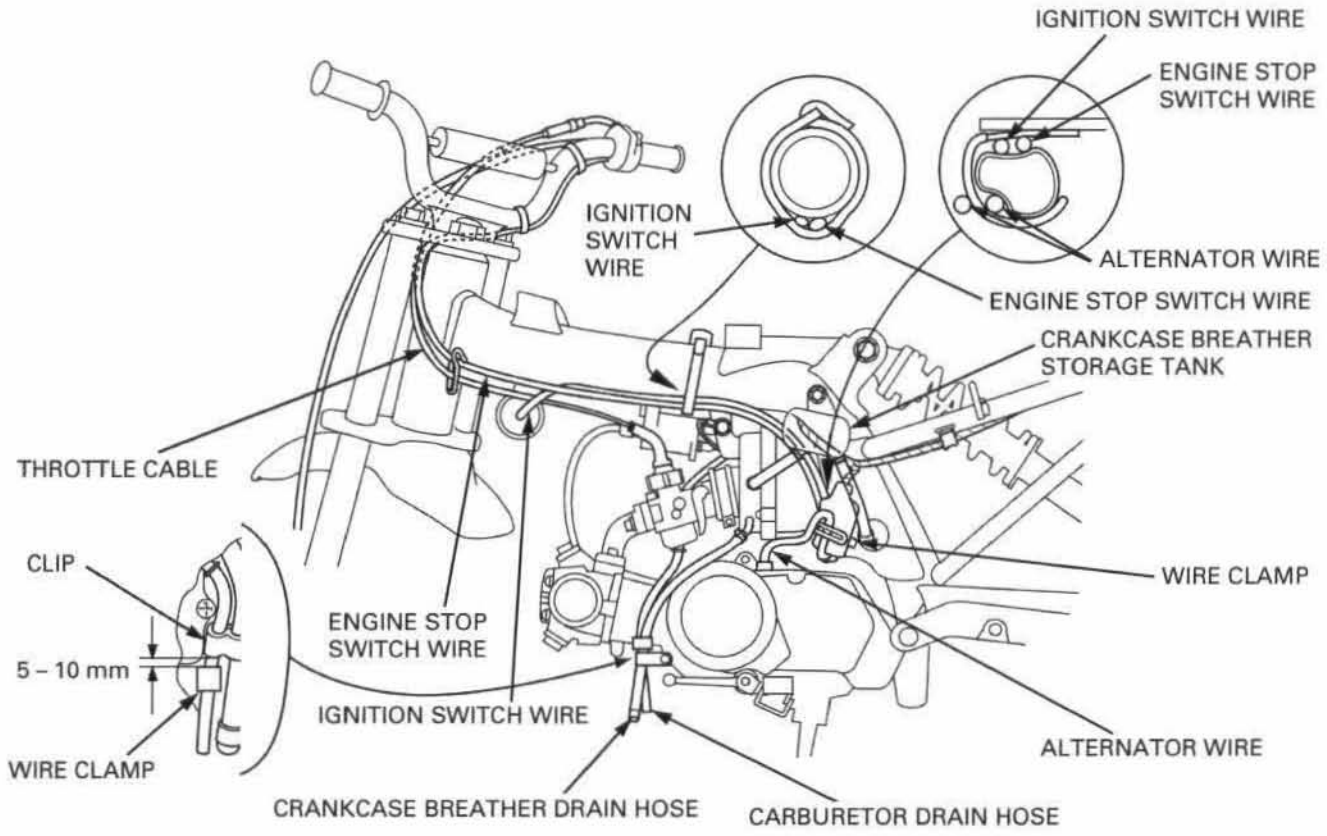
LOCATION	MATERIAL	REMARKS
Air cleaner housing cover mating groove	Multi-purpose grease	
Throttle grip pipe flange		
Steering head bearing and race sliding surface		
Wheel hub dust seal lips		
Wheel bearing cavities		
Brake panel anchor pin sliding surface		
Brake cam spindle and sliding surface		
Brake pedal pivot		
Fork dust seal lips		
Fork slider outer surface (slider guide sliding surface)		Apply 5 – 6 g
Fork slider guide outer groove		Apply 5 – 6 g
Fork spring whole surface		Apply 14 g
Swingarm pivot nut seating surface		
Side stand pivot and sliding surface		
Brake cam dust seal	Engine oil	
Throttle cable outer inside	Cable lubricant	
Brake cable outer inside		
Handlebar grip rubber inside	Honda bond A or equiva-lent	
Air cleaner connecting boot-to-housing mating area		

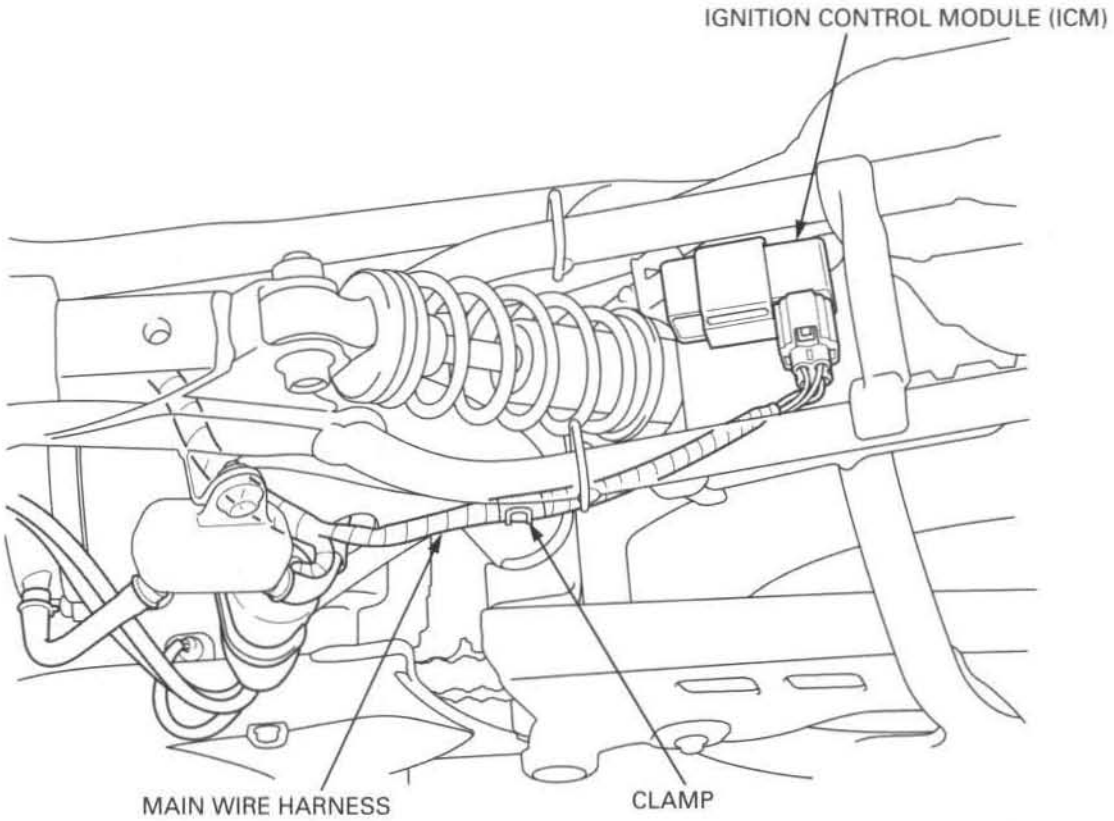
CABLE & HARNESS ROUTING






IGNITION COIL
THROTTLE CABLE
GROUND POINT
CARBURETOR AIR VENT HOSE
AFTER '07 ONLY:
FUEL HOSE
0 – 3 mm (0 – 0.12 in)
UP
CLAMP
IGNITION SWITCH
SPARK PLUG WIRE


IGNITION SWITCH WIRE
ENGINE STOP SWITCH WIRE
IGNITION SWITCH WIRE
ALTERNATOR WIRE
ENGINE STOP SWITCH WIRE
CRANKCASE BREATHER STORAGE TANK
THROTTLE CABLE
CLIP
5 – 10 mm
WIRE CLAMP
ENGINE STOP SWITCH WIRE
IGNITION SWITCH WIRE
WIRE CLAMP
ALTERNATOR WIRE
CRANKCASE BREATHER DRAIN HOSE
CARBURETOR DRAIN HOSE


IGNITION CONTROL MODULE (ICM)
MAIN WIRE HARNESS
CLAMP

EMISSION CONTROL SYSTEMS

The U.S. Environmental Protection Agency (EPA), and the California Air Resources Board (CARB) require that off-road motorcycle comply with applicable exhaust emissions standards during its useful life, when operated and maintained according to the instruction provided.

SOURCE OF EMISSIONS

The combustion process produces carbon monoxide, oxides of nitrogen, and hydrocarbons. Controlling hydrocarbons and oxides of nitrogen is very important because, under certain conditions, they react to form photochemical smog when subjected to sunlight. Carbon monoxide does not react in the same way, but it is toxic.

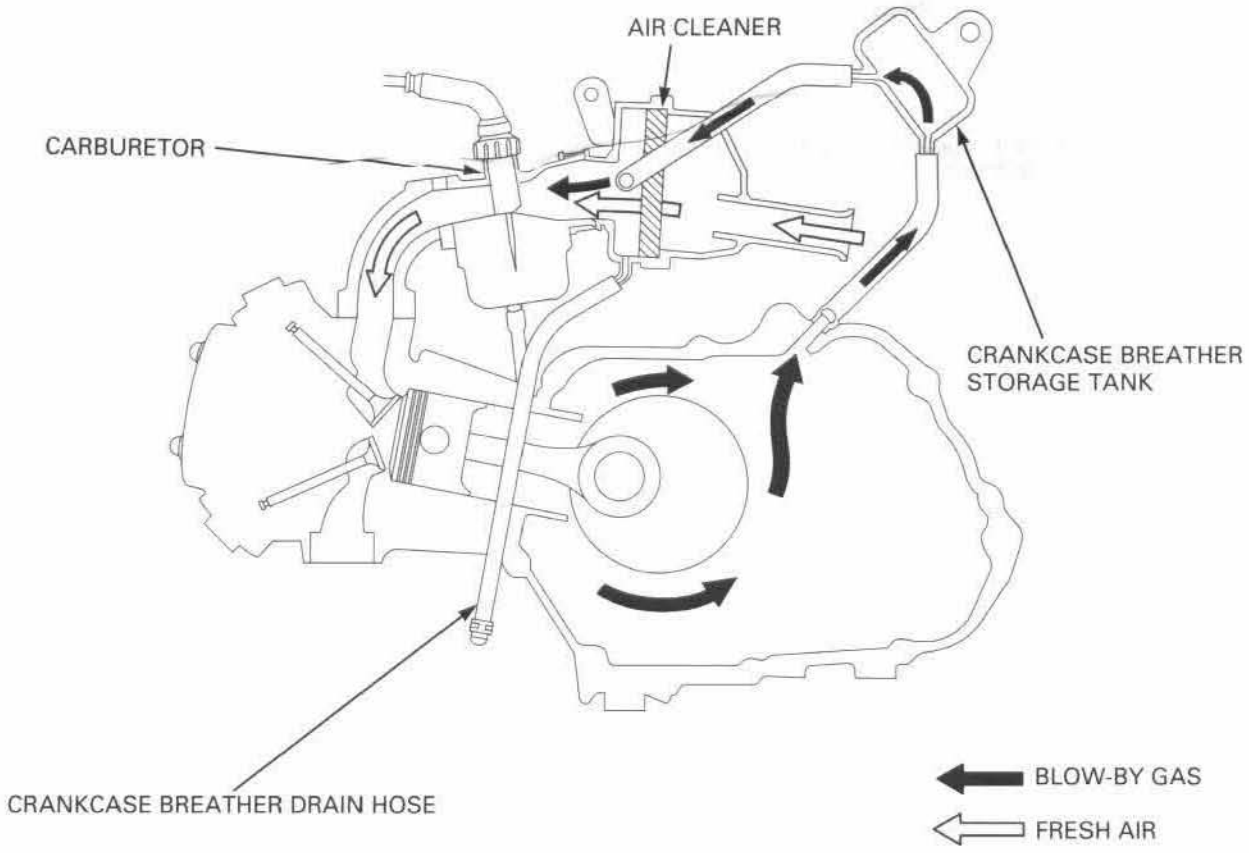
Honda Motor Co., Ltd. utilizes various systems to reduce carbon monoxide, oxides of nitrogen, and hydrocarbons.

EXHAUST EMISSION CONTROL SYSTEM

The exhaust emission control system is composed of appropriate carburetor setting, no adjustments should be made except for high altitude setting and 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.



SERVICING THE HONDA

U.S.A. Only

Maintenance, replacement or repair of the emission control devices and systems may be performed by any motorcycle repair establishment or individual using parts that are "certified" to EPA standards.

PROHIBITED ACTIONS

The following prohibitions apply to everyone with respect to the engines emission control system.

You may not remove or disable any device or element of design that may affect an engine's emission levels. This restriction applies before and after the engine in placed in service.

NOISE EMISSION CONTROL SYSTEM

TAMPERING WITH THE NOISE CONTROL SYSTEM IS PROHIBITED: U.S. Federal law prohibits, or Canadian provincial laws may prohibit the following acts or the causing there of: (1) The removal or rendering inoperative by any person, other than for purposes of maintenance, repair or replacement, of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use; (2) the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

AMONG THOSE ACTS PRESUMED TO CONSTITUTE TAMPERING ARE THE FOLLOWING ACTS:

1. Removal of, or puncturing of the muffler, baffles, header pipes or any other component which conducts exhaust gases.
2. Removal of, or puncturing of any part of the intake system.
3. Lack of proper maintenance.
4. Replacing any moving parts of the vehicle, or parts of the exhaust or intake system, with parts other then those specified by the manufacturer.

FUEL PERMEATION EMISSION CONTROL SYSTEM (AFTER '07)

This motorcycle complies with the Fuel Permeation Emission Control regulations of the U.S. Environmental Protection Agency (EPA), California Air Resources Board (CARB), and Environment Canada (EC). The fuel tank and fuel hoses used on the motorcycle incorporate fuel permeation control technologies. Tampering with the fuel tank or fuel hoses to reduce or defeat the effectiveness of the fuel permeation technologies is prohibited by federal regulations.

REBUILT ENGINE

When you rebuild your engine including a major overhaul in which you replace the engine's pistons or power assemblies or make other changes that significantly increase the service life of the engine, your Honda will continue to comply with all emissions regulations if you:

- Make sure you are technically qualified to rebuild the engine and have the proper tools
- Use only Genuine Honda parts or equivalents
- Make sure to maintain all specifications as described in this Service Manual