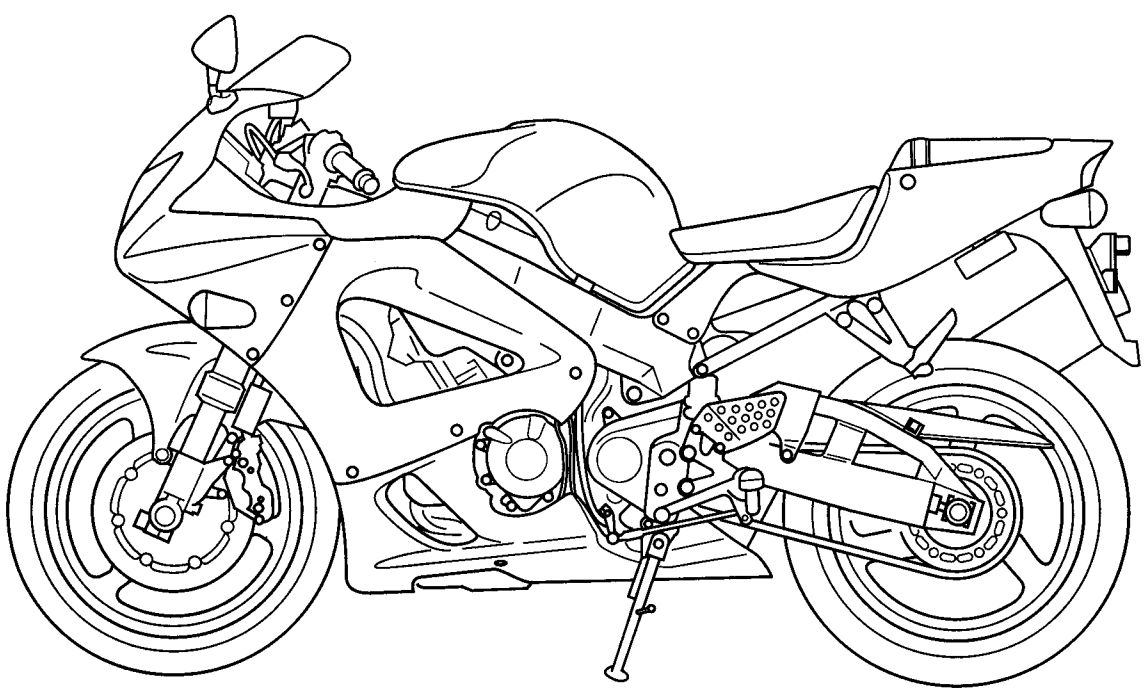
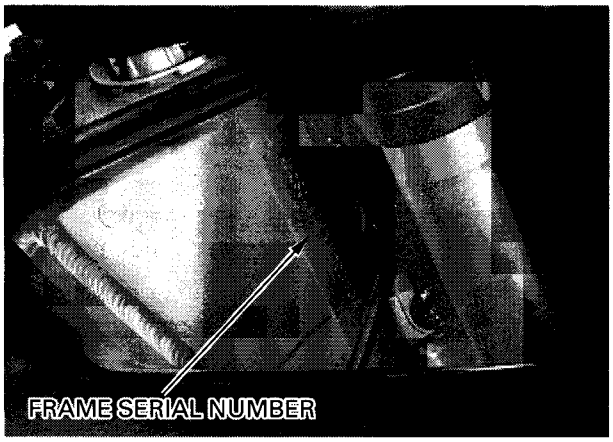
1. GENERAL INFORMATION

SERVICE RULES

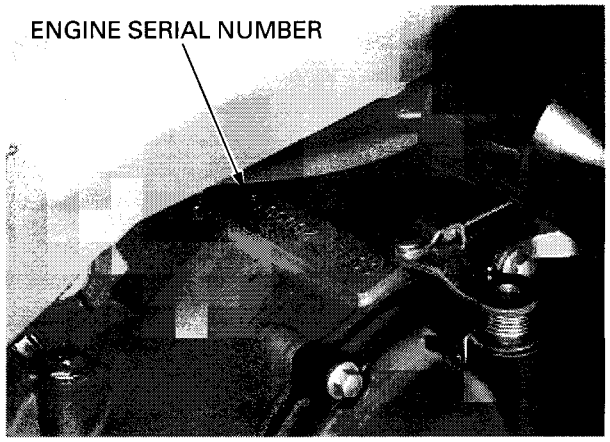
1. Use genuine HONDA or HONDA-recommended parts and lubricants or their equivalents. Parts that don't meet HONDA's design specifications may cause damage to the motorcycle.
2. Use the special tools designed for this product to avoid damage and incorrect assembly.
3. Use only metric tools when servicing 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 show on pages 1-23 through 1-39, Cable and Harness Routing.

MODEL IDENTIFICATION

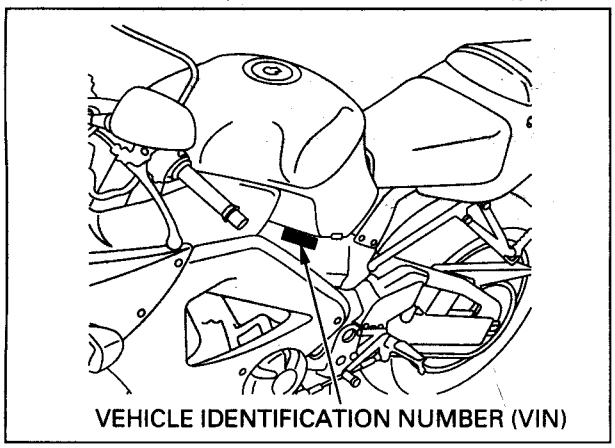




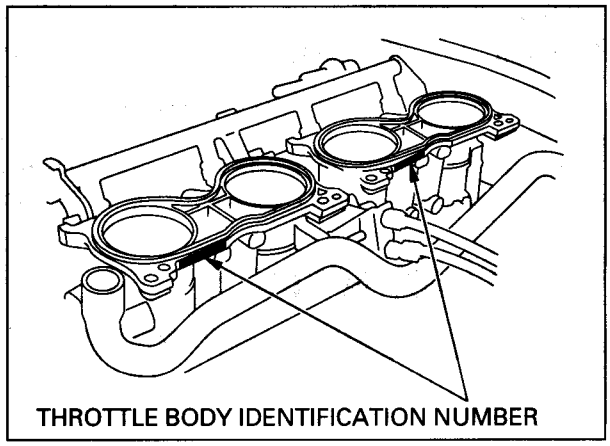
(1) The frame serial number is stamped on the right side of the steering head.



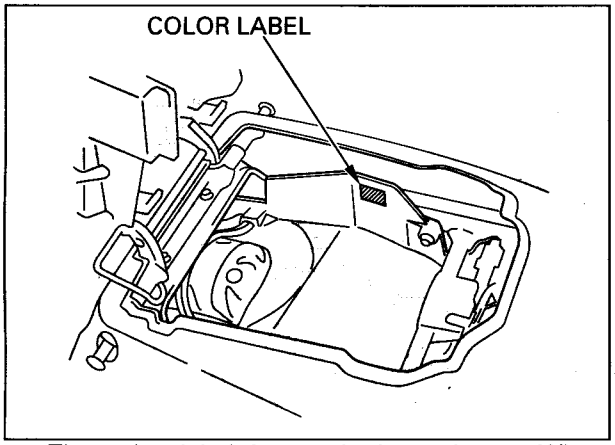
(2) The engine serial number is stamped on the right side of the upper crankcase.



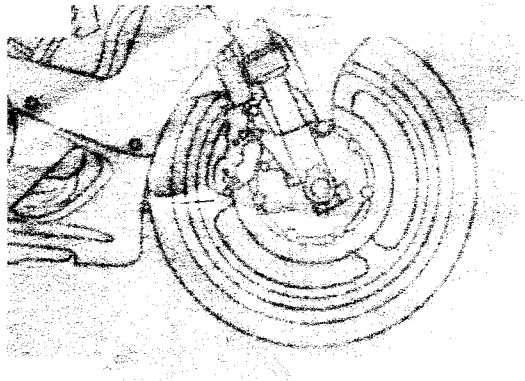
(3) The Vehicle Identification Number (VIN) is located on left side of the main frame on the Safety Certification Labal.



(4) The throttle body identification number is stamped on the intake side of the throttle body as shown.



(5) The color label is attached as shown. When ordering color-coded parts, always specify the designated color code.



SPECIFICATIONS

GENERAL

ITEM		SPECIFICATIONS
DIMENSIONS	Overall length	2,065 mm (81.3 in)
	Overall width	680 mm (26.8 in)
	Overall height	1,125 mm (44.3 in)
	Wheelbase	1,395 mm (54.9 in)
	Seat height	820 mm (32.3 in)
	Footpeg height	384 mm (15.1 in)
	Ground clearance	130 mm (5.1 in)
	Dry weight	
	49 states, Canada type	172 kg (379 lbs)
	California type	174 kg (384 lbs)
	Curb weight	
	49 states, Canada type	197 kg (434 lbs)
	California type	199 kg (439 lbs)
	Maximum weight capacity	
	49 states, Canada type	160 kg (353 lbs)
	California type	164 kg (362 lbs)
FRAME	Frame type	Diamond
	Front suspension	Inverted telescopic fork
	Front wheel travel	110 mm (4.3 in)
	Rear suspension	Swingarm
	Rear wheel travel	135 mm (5.3 in)
	Rear damper	Nitrogen gas filled damper
	Front tire size	120/70 ZR17 (58W) /Radial
	Rear tire size	190/50 ZR17 (73W) /Radial
	Tire brand	
	Bridgestone	Front: BT010F /Rear: BT010R
	Michelin	Front: Pilot SPORT E /Rear: Pilot SPORT E
	Front brake	Hydraulic double disc brake with 4 pot caliper
	Rear brake	Hydraulic single disc brake with 1 pot caliper
	Caster angle	23°45'
	Trail length	97 mm (3.8 in)
	Fuel tank capacity	18.0 ℓ (4.76 US gal , 3.96 Imp gal)
ENGINE	Bore and stroke	74.0 × 54.0 mm (2.91 × 2.13 in)
	Displacement	929 cm³ (56.7 cu-in)
	Compression ratio	11.3 : 1
	Valve train	Chain drive and DOHC
	Intake valve opens (at 1 mm (0.04 in) lift)	25° BTDC
	Intake valve closes (at 1 mm (0.04 in) lift)	35° ABDC
	Exhaust valve opens (at 1 mm (0.04 in) lift)	40° BBDC
	Exhaust valve closes (at 1 mm (0.04 in) lift)	20° ATDC
	Lubrication system	Forced pressure and wet sump
	Oil pump type	Trochoid
	Cooling system	Liquid cooled
	Air filtration	Paper filter
	Crankshaft type	Unit type
	Engine dry weight	62.1 kg (136.9 lbs)
	Cylinder arrangement	Four cylinder, inline 30° inclined from vertical
	Firing Order	1-2-4-3

GENERAL (Cont'd)

ITEM		SPECIFICATIONS
CARBURETION	Type	PGM-FI (Programmed Fuel Injection)
	Throttle bore	40 mm (1.6 in)
DRIVE TRAIN	Clutch system	Multi-plate, wet
	Clutch operation system	Cable operated type
	Transmission	Constant mesh, 6-speed
	Primary reduction	1.521 (73/48)
	Final reduction	2.687 (43/16)
	Gear ratio 1st	2.692 (35/13)
	2nd	1.933 (29/15)
	3rd	1.600 (32/20)
	4th	1.400 (28/20)
	5th	1.286 (27/21)
	6th	1.190 (25/21)
	Gearshift pattern	Left foot operated return system, 1—N—2—3—4—5—6
ELECTRICAL	Ignition system	Computer-controlled digital transistorized with electronic advance
	Starting system	Electric starter motor
	Charging system	Triple phase output alternator
	Regulator/rectifier	SCR shorted/triple phase, full wave rectification
	Lighting system	Battery

LUBRICATION SYSTEM

Unit: mm (in)

ITEM		STANDARD	SERVICE LIMIT
Engine oil capacity	At draining	3.5 ℓ (3.7 US qt , 3.1 Imp qt)	———
	At disassembly	4.0 ℓ (4.2 US qt , 3.5 Imp qt)	———
	At oil filter change	3.7 ℓ (3.9 US qt , 3.3 Imp qt)	———
Recommended engine oil		Pro Honda GN4 or HP4 4-stroke oil (U.S.A & Canada) or Honda 4-stroke oil (Canada only), or equivalent motor oil API service classification SF or SG Viscosity: SAE 10W−40	———
Oil pressure at oil pressure switch		490 kPa (5.0 kgf/cm², 71 psi) at 5,400 rpm (80°C/176°F)	———
Oil pump rotor	Tip clearance	0.15 (0.006) max.	0.20 (0.008)
	Body clearance	0.15−0.22 (0.006−0.009)	0.35 (0.014)
	Side clearance	0.02−0.07 (0.001−0.003)	0.10 (0.004)

FUEL SYSTEM (Programmed Fuel Injection)

ITEM		SPECIFICATIONS
Throttle body identification number	49 states, Canada type	GQ60C
	California type	GQ60B
Starter valve vacuum difference		20 mm Hg
Base throttle valve for synchronization		No.1
Idle speed		1,200 ± 100 rpm
Throttle grip free play		2−6 mm (1/16−1/4 in)
Intake air temperature sensor resistance (at 20°C/68°F)		1−4 kΩ
Engine coolant temperature sensor resistance (at 20°C/68°F)		2.3−2.6 kΩ
Fuel injector resistance (at 20°C/68°F)		11.1−12.3 Ω
PAIR solenoid valve resistance (at 20°C/68°F)		20−24 kΩ
Purge control solenoid valve resistance (at 20°C/68°F)		30−34 kΩ
Cam pulse generator peak voltage (at 20°C/68°F)		0.7 V minimum
Ignition pulse generator peak voltage (at 20°C/68°F)		0.7 V minimum
Manifold absolute pressure at idle		150−250 mm Hg
Fuel pressure at idle		343 kPa (3.5 kgf/cm², 50 psi)
Fuel pump flow (at 12 V)		188 cm³ (6.4 US oz , 6.6 Imp oz) minimum/10 seconds

COOLING SYSTEM

ITEM		SPECIFICATIONS
Coolant capacity	Radiator and engine	3.2 ℓ (3.4 US qt , 2.8 Imp qt)
	Reserve tank	0.4 ℓ (0.4 US qt , 0.4 Imp qt)
Radiator cap relief pressure		108 – 137 kPa (1.1 – 1.4 kgf/cm², 16 – 20 psi)
Thermostat	Begin to open	80.5 – 83.5 °C (177 – 182 °F)
	Fully open	95 °C (203 °F)
	Valve lift	8 mm (0.3 in) minimum
Recommended antifreeze		High quality ethylene glycol antifreeze containing corrosion protection inhibitors
Standard coolant concentration		50 % mixture with soft water

CYLINDER HEAD/VALVES

Unit: mm (in)

ITEM			STANDARD	SERVICE LIMIT
Cylinder compression			1,226 kPa (12.5 kgf/cm², 178 psi) at 350 rpm	———
Cylinder head warpage			———	0.10 (0.004)
Valve, valve guide	Valve clearance	IN	0.16 ± 0.03 (0.006 ± 0.001)	———
		EX	0.27 ± 0.03 (0.011 ± 0.001)	———
	Valve stem O.D.	IN	4.475 – 4.490 (0.1762 – 0.1768)	4.465 (0.1758)
		EX	4.465 – 4.480 (0.1758 – 0.1764)	4.455 (0.1754)
	Valve guide I.D.	IN	4.500 – 4.512 (0.1772 – 0.1776)	4.540 (0.1787)
		EX	4.500 – 4.512 (0.1772 – 0.1776)	4.540 (0.1787)
	Stem-to-guide clearance	IN	0.010 – 0.037 (0.0004 – 0.0015)	———
		EX	0.020 – 0.047 (0.0008 – 0.0019)	———
	Valve guide projection above cylinder head	IN	14.3 – 14.6 (0.56 – 0.57)	———
		EX	12.4 – 12.7 (0.49 – 0.50)	———
	Valve seat width	IN/EX	0.90 – 1.10 (0.035 – 0.043)	1.5 (0.06)
Valve spring free length	Inner	IN/EX	34.80 (1.370)	34.1 (1.34)
	Outer	IN/EX	37.97 (1.495)	37.2 (1.46)
Valve lifter	Valve lifter O.D.	IN/EX	25.978 – 25.993 (1.0228 – 1.0233)	25.97 (1.022)
	Valve lifter bore I.D.	IN/EX	26.010 – 26.026 (1.0240 – 1.0246)	26.04 (1.025)
Camshaft	Cam lobe height	IN	36.48 – 36.72 (1.436 – 1.446)	36.45 (1.435)
		EX	36.08 – 36.32 (1.420 – 1.430)	36.50 (1.437)
	Runout		———	0.05 (0.002)
	Oil clearance		0.020 – 0.062 (0.0008 – 0.0024)	0.10 (0.004)

CLUTCH/GEARSHIFT LINKAGE

Unit: mm (in)

ITEM			STANDARD	SERVICE LIMIT
Clutch lever free play			10–20 (3/8–13/16)	———
Clutch spring free length			48.8 (1.92)	47.4 (1.87)
Clutch disc thickness		Green color	2.92–3.08 (0.115–0.121)	2.6 (0.10)
		Purple color	2.92–3.08 (0.115–0.121)	2.6 (0.10)
Clutch plate warpage			———	0.30 (0.012)
Clutch outer guide		I.D.	25.000–25.021 (0.9843–0.9851)	25.03 (0.985)
		O.D.	34.975–34.991 (1.3770–1.3776)	34.97 (1.377)
Mainshaft O.D. at clutch outer guide			24.980–24.993 (0.9835–0.9840)	24.96 (0.983)
Shift fork, fork shaft	Fork	I.D.	12.000–12.018 (0.4724–0.4731)	12.03 (0.474)
		Claw thickness	5.93–6.00 (0.233–0.236)	5.9 (0.23)
	Fork shaft O.D.		11.957–11.968 (0.4707–0.4712)	11.95 (0.470)

ALTERNATOR/STARTER CLUTCH

Unit: mm (in)

ITEM	STANDARD	SERVICE LIMIT
Starter driven gear boss O.D.	51.699–51.718 (2.0354–2.0361)	51.684 (2.0348)

CRANKCASE/PISTON/CYLINDER

Unit: mm (in)

ITEM			STANDARD	SERVICE LIMIT
Cylinder	I.D.		74.005–74.020 (2.9136–2.9142)	74.15 (2.919)
	Out of round		———	0.10 (0.004)
	Taper		———	0.10 (0.004)
	Warpage		———	0.05 (0.002)
Piston, piston rings	Piston mark direction		"IN" mark facing toward the intake side	———
	Piston O.D.		73.965–73.985 (2.9120–2.9128)	73.90 (2.909)
	Piston O.D. measurement point		13 mm (0.5 in) from bottom of skirt	———
	Piston pin bore I.D.		17.002–17.008 (0.6694–0.6696)	17.03 (0.670)
	Piston pin O.D.		16.994–17.000 (0.6691–0.6693)	16.98 (0.669)
	Piston-to-piston pin clearance		0.002–0.014 (0.0001–0.0006)	———
	Piston ring-to-ring groove clearance	Top	0.030–0.065 (0.0012–0.0026)	0.08 (0.003)
		Second	0.015–0.045 (0.0006–0.0018)	0.06 (0.002)
	Piston ring end gap	Top	0.28–0.38 (0.011–0.015)	0.5 (0.02)
		Second	0.40–0.55 (0.016–0.022)	0.7 (0.03)
		Oil (side rail)	0.2–0.7 (0.01–0.03)	0.9 (0.04)
Cylinder-to-piston clearance			0.020–0.055 (0.0008–0.0022)	———
Connecting rod small end I.D.			17.016–17.034 (0.6699–0.6706)	17.04 (0.671)
Connecting rod-to-piston pin clearance			0.016–0.040 (0.0006–0.0016)	———
Crankpin oil clearance			0.030–0.052 (0.0012–0.0020)	0.062 (0.0024)

CRANKSHAFT/TRANSMISSION

Unit: mm (in)

ITEM			STANDARD	SERVICE LIMIT
Crankshaft	Side clearance		0.05–0.20 (0.002–0.008)	0.30 (0.012)
	Runout		———	0.30 (0.012)
	Main journal oil clearance	No. 1 and No. 5	0.017–0.035 (0.0007–0.0014)	0.045 (0.0018)
		No. 2 to No. 4	0.027–0.045 (0.0011–0.0018)	0.055 (0.0022)
Transmission	Gear I.D.	M5, M6	31.000–31.025 (1.2205–1.2215)	31.04 (1.222)
		C1	26.000–26.021 (1.0236–1.0244)	26.04 (1.025)
		C2, 3, 4	33.000–33.025 (1.2992–1.3002)	33.04 (1.301)
	Bushing O.D.	M5, M6	30.950–30.975 (1.2185–1.2195)	30.93 (1.218)
		C3	32.950–32.975 (1.2972–1.2982)	32.93 (1.296)
		C4	32.950–32.975 (1.2972–1.2982)	32.93 (1.296)
	Bushing I.D.	M5	27.985–28.006 (1.1018–1.1026)	28.02 (1.103)
		C2	29.985–30.006 (1.1805–1.1813)	30.02 (1.182)
	Gear-to-bushing clearance	M5, M6	0.025–0.075 (0.0010–0.0030)	0.11 (0.004)
		C3	0.025–0.075 (0.0010–0.0030)	0.11 (0.004)
	Mainshaft O.D.	M5	27.967–27.980 (1.1011–1.1016)	27.957 (1.1007)
		Clutch outer guide	24.980–24.993 (0.9835–0.9840)	24.96 (0.983)
	Countershaft O.D.	C2	29.967–29.980 (1.1798–1.1803)	29.96 (1.180)
	Bushing-to-shaft clearance	M5	0.005–0.039 (0.0002–0.0015)	0.08 (0.003)
		C2	0.005–0.039 (0.0002–0.0015)	0.08 (0.003)

Unit: mm (in)

FRONT WHEEL/SUSPENSION/STEERING

ITEM		STANDARD	SERVICE LIMIT
Minimum tire tread depth		—	1.5 (0.06)
Cold tire pressure	Up to 90 kg (200 lb) load	250 kPa (2.50 kgf/cm², 36 psi)	—
	Up to maximum weight capacity	250 kPa (2.50 kgf/cm², 36 psi)	—
Axle runout		—	0.20 (0.008)
Wheel rim runout	Radial	—	2.0 (0.08)
	Axial	—	2.0 (0.08)
Fork	Spring free length	230.5 (9.07)	225.9 (8.89)
	Spring direction	With the tapered end facing up	—
	Tube runout	—	0.20 (0.008)
	Recommended fork fluid	Pro Honda Suspension Fluid SS-8	—
	Fluid level	90 (3.5)	—
	Fluid capacity	488 ± 2.5 cm³ (16.5 ± 0.08 US oz, 17.2 ± 0.09 Imp oz)	—
	Pre-load adjuster initial setting	18 mm (0.7 in) from top of fork bolt	—
	Tension adjuster initial setting	1 turn from full hard	—
	Compression adjuster initial setting	1-1/2 turns from full hard	—
Steering head bearing pre-load		10—15 N (1.0—1.5 kgf)	—

Unit: mm (in)

REAR WHEEL/SUSPENSION

ITEM			STANDARD	SERVICE LIMIT
Minimum tire thread depth			—	2.0 (0.08)
Cold tire pressure	Up to 90 kg (200 lb) load		290 kPa (2.90 kgf/cm², 42 psi)	—
	Up to maximum weight capacity		290 kPa (2.90 kgf/cm², 42 psi)	—
Axle runout			—	0.20 (0.008)
Wheel rim runout	Radial		—	2.0 (0.08)
	Axial		—	2.0 (0.08)
Drive chain	Size/link	DID	D.I.D. 50VA8 C1	—
		RK	RK GB50HFOZ5	—
	Slack		40—50 (1.6—2.0)	50 (2.0)
Shock absorber	Spring adjuster standard position		4th groove	—
	Tension adjuster initial setting		2 turns from full hard	—
	Compression adjuster initial setting		1 turn from full hard	—

HYDRAULIC BRAKE

Unit: mm (in)

ITEM			STANDARD	SERVICE LIMIT
Front	Specified brake fluid		Honda DOT 4 Brake Fluid	———
	Brake disc thickness		4.5 (0.18)	3.5 (0.14)
	Brake disc runout		———	0.30 (0.012)
	Master cylinder I.D.		19.050 – 19.093 (0.7500 – 0.7517)	19.105 (0.7522)
	Master piston O.D.		19.018 – 19.034 (0.7487 – 0.7494)	19.006 (0.7483)
	Caliper cylinder I.D.	Upper	33.960 – 34.010 (1.3370 – 1.3390)	34.02 (1.339)
		Lower	30.250 – 30.280 (1.1909 – 1.1921)	30.29 (1.193)
	Caliper piston O.D.	Upper	33.802 – 33.835 (1.3308 – 1.3321)	33.794 (1.3305)
		Lower	30.082 – 30.115 (1.1843 – 1.1856)	30.074 (1.1840)
Rear	Specified brake fluid		DOT 4	———
	Brake pedal height		75 (3.0)	———
	Brake disc thickness		5.0 (0.20)	4.0 (0.16)
	Brake disc runout		———	0.30 (0.012)
	Master cylinder I.D.		15.870 – 15.913 (0.6248 – 0.6265)	15.925 (0.6270)
	Master piston O.D.		15.827 – 15.854 (0.6231 – 0.6242)	15.815 (0.6226)
	Caliper cylinder I.D.		38.180 – 38.230 (1.5031 – 1.5051)	38.24 (1.506)
	Caliper piston O.D.		38.098 – 38.148 (1.4999 – 1.5019)	38.090 (1.4996)

BATTERY/CHARGING SYSTEM

ITEM			SPECIFICATIONS
Battery	Capacity		12V-8.6 Ah
	Current leakage		0.2 mA max.
	Voltage (20°C/68°F)	Fully charged	13.0 – 13.2 V
		Needs charging	Below 12.3 V
	Charging current	Normal	0.9 A/5 – 10 h
		Quick	4.0 A/0.5 h
Alternator	Capacity		0.421 kW/5,000 rpm
	Charging coil resistance (20°C/68°F)		0.1 – 1.0 Ω

IGNITION SYSTEM

ITEM		SPECIFICATIONS
Spark plug	Standard	IUH27D (DENSO)
	Optional	IUH24D (DENSO)
Spark plug gap		0.80 – 0.90 mm (0.031 – 0.035 in)
Ignition coil peak voltage		100 V minimum
Ignition pulse generator peak voltage		0.7 V minimum
Ignition timing ("F" mark)		15° BTDC at idle

ELECTRIC STARTER

Unit: mm (in)

ITEM	STANDARD	SERVICE LIMIT
Starter motor brush length	12.0—13.0 (0.47—0.51)	4.5 (0.18)

LIGHTS/METERS/SWITCHES

ITEM			SPECIFICATIONS
Bulbs	Headlight	Hi	12V-55W × 2
		Lo	12V-55W
	Brake/tail light		12V-21/5W × 2
	Front turn signal/running light		12V-32/3 cp (23/8 W) × 2
	Rear turn signal light		12V-21W × 2
	Licence light		12V-5W
	Instrument light		LED
	Turn signal indicator		LED × 2
	High beam indicator		LED
	Neutral indicator		LED
	Oil pressure indicator		LED
	Malfunction indicator lamp		LED
	Fuel reserve indicator		LED
Fuse	Main fuse		30A
	PGM-FI fuse		20A
	Sub fuse		20A × 1, 10A × 5
Tachometer peak voltage			10.5 V minimum
Thermo sensor resistance		80°C	2.1—2.6 kΩ
		120°C	0.65—0.73 kΩ
Fan motor switch	Start to close (ON)		98—102 °C (208—216 °F)
	Stop to open		93—97 °C (199—207 °F)

TORQUE VALUES

FASTENER TYPE	TORQUE N·m (kgf·m, lbf·ft)	FASTENER TYPE	TORQUE N·m (kgf·m, lbf·ft)
5 mm hex bolt and nut	5 (0.5 , 3.6)	5 mm screw	4 (0.4 , 2.9)
6 mm hex bolt and nut	10 (1.0 , 7)	6 mm screw	9 (0.9 , 6.5)
8 mm hex bolt and nut	22 (2.2 , 16)	6 mm flange bolt (8 mm head)	9 (0.9 , 6.5)
10 mm hex bolt and nut	34 (3.5 , 25)	6 mm flange bolt (10 mm head) and nut	12 (1.2 , 9)
12 mm hex bolt and nut	54 (5.5 , 40)	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 important fasteners.
- Others should be tightened to standard torque values listed above.

NOTES:
1. Apply sealant to the threads.
2. Apply a locking agent to the threads.
3. Apply grease to the threads.
4. Stake.
5. Apply oil to the threads and flange surface.
6. Apply clean engine oil to the O-ring.
7. U-nut
8. ALOC bolt: replace with a new one.
9. CT bolt
10. Apply molybdenum disulfide oil to the threads and seating serface (after removing anti-rust oil additive)

ENGINE

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
MAINTENANCE:				
Spark plug	4	10	12 (1.2 , 9)	
Timing hole cap	1	45	18 (1.8 , 13)	NOTE 3
LUBRICATION SYSTEM:				
Oil drain bolt	1	12	29 (3.0 , 22)	
Oil cooler mounting bolt	1	20	74 (7.5 , 54)	
Oil pump assembly flange bolt	1	6	8 (0.8 , 5.8)	NOTE 9
Oil pump driven sprocket bolt	1	6	15 (1.5 , 11)	NOTE 2
Oil filter cartridge	1	20	26 (2.7 , 20)	NOTE 6
Oil pressure switch	1	PT 1/8	12 (1.2 , 9)	NOTE 1
Oil pressure switch wire terminal screw	1	4	2 (0.2 , 1.4)	
FUEL SYSTEM (Programmed Fuel injection):				
ECT (Engine Coolant Temperature)/thermosensor	1	12	23 (2.3 , 17)	
Throttle body insulator band screw	8	5	See page 1-14	
Throttle cable bracket mounting bolt	2	5	3 (0.35 , 2.5)	
Fuel pipe mounting bolt	3	6	10 (1.0 , 7)	
Pressure regulator mounting bolt	2	6	10 (1.0 , 7)	
Starter valve synchronization plate screw	4	3	1 (0.09 , 0.7)	
Fast idle wax unit link plate screw	1	3	1 (0.09 , 0.7)	
Fast idle wax unit mounting screw	2	6	5 (0.5 , 3.6)	
Starter valve lock nut	4	10	2 (0.18 , 1.3)	
Vacuum joint plug bolt for synchronization	4	5	3 (0.3 , 2.2)	
COOLING SYSTEM:				
Water pump cover flange bolt	2	6	12 (1.2 , 9)	NOTE 9
Thermostat cover flange bolt	2	6	12 (1.2 , 9)	NOTE 9
ENGINE MOUNTING:				
Drive sprocket special bolt	1	10	54 (5.5 , 40)	

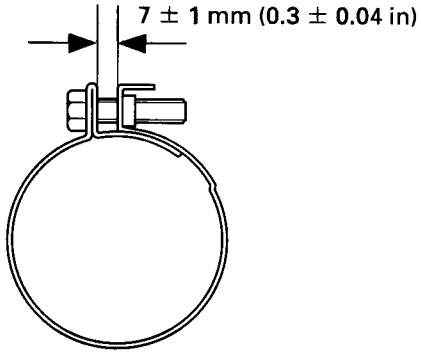
ENGINE (Cont'd)

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
CYLINDER HEAD/VALVES:				
Cylinder head cover bolt	4	6	10 (1.0 , 7)	
PAIR reed valve cover flange bolt	4	6	12 (1.2 , 9)	NOTE 2
Breather plate flange bolt	3	6	12 (1.2 , 9)	NOTE 2
Camshaft holder flange bolt	10	6	12 (1.2 , 9)	NOTE 5
Cylinder head sealing bolt	1	18	27 (2.8 , 20)	NOTE 2
Cylinder head mounting bolt	2	8	24 (2.4 , 17)	NOTE 5
Cylinder head mounting socket bolt/washer	10	9	51 (5.2 , 38)	NOTE 10
Cam sprocket bolt	4	7	20 (2.0 , 14)	NOTE 2
Cam pulse generator rotor dowel bolt	2	6	12 (1.2 , 9)	NOTE 2
Cam chain tensioner pivot socket bolt	1	6	10 (1.0 , 7)	NOTE 2
Cam chain guide mounting socket bolt	1	6	12 (1.2 , 9)	NOTE 2
Cylinder head stud bolt (exhaust pipe stud bolt)	8	8	See page 1-14	
CLUTCH/GEARSHIFT LINKAGE:				
Clutch center lock nut	1	22	127 (13.0 , 94)	NOTE 4, 5
Clutch spring bolt/washer	5	6	12 (1.2 , 9)	
Shift drum center socket bolt	1	8	23 (2.3 , 17)	NOTE 2
Shift drum stopper arm pivot bolt	1	6	12 (1.2 , 9)	
Gearshift return spring pin	1	8	23 (2.3 , 17)	
Shift drum bearing/shift fork retaining bolt/washer	2	6	12 (1.2 , 9)	NOTE 2
ALTERNATOR/STARTER CLUTCH:				
Alternator wire clamp socket bolt	1	6	12 (1.2 , 9)	NOTE 9
Flywheel flange bolt	1	10	103 (10.5 , 76)	NOTE 5
Stator mounting socket bolt	4	6	12 (1.2 , 9)	
Starter one-way clutch socket bolt	6	6	16 (1.6 , 12)	NOTE 2
CRANKCASE/PISTON/CYLINDER:				
Mainshaft bearing set plate bolt	2	6	12 (1.2 , 9)	NOTE 2
Crankcase bolt, 10 mm	1	10	39 (4.0 , 29)	
9 mm (main journal bolt)	10	9	35 (3.6 , 26)	NOTE 5
8 mm	12	8	24 (2.4 , 17)	
Connecting rod nut	8	8	35 (3.6 , 26)	NOTE 5
Upper crankcase sealing bolt	1	8	22 (2.2 , 16)	NOTE 2
Lower crankcase sealing bolt, 20 mm	1	20	30 (3.1 , 22)	NOTE 2
10 mm	1	10	12 (1.2 , 9)	NOTE 2

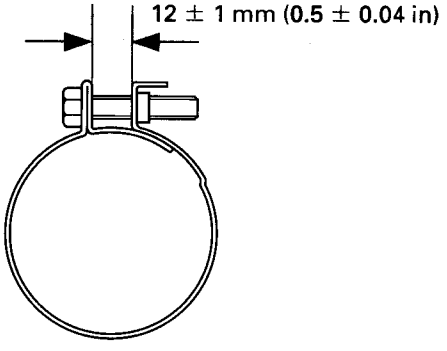
ENGINE (Cont'd)

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
IGNITION SYSTEM:				
Ignition pulse generator rotor mounting bolt	1	10	59 (6.0 , 43)	NOTE 5
ELECTRIC STARTER:				
Starter motor terminal nut	1	6	12 (1.2 , 9)	
LIGHTS/METERS/SWITCHES:				
Neutral switch	1	10	12 (1.2 , 9)	

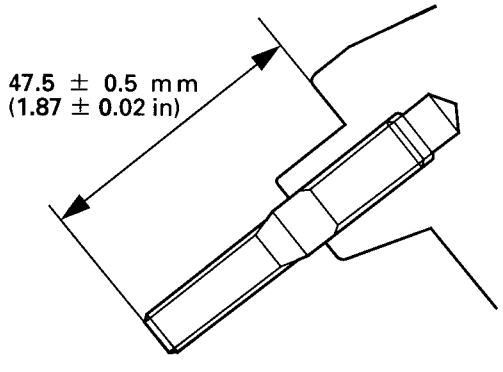
Insulator clamp (Throttle body side):



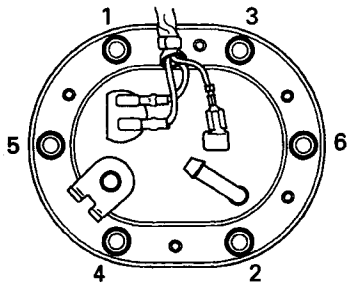
Insulator clamp (Cylinder head side):



Exhaust pipe stud bolt:



FRAME

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
FRAME BODY PANELS/EXHAUST SYSTEM:				
Upper cowl stay mounting bolt	2	8	26 (2.7 , 20)	
Middle cowl pan screw	14	5	1 (0.15 , 1.1)	
Lower cowl pan screw	2	5	1 (0.15 , 1.1)	
Inner panel pan screw	2	5	1 (0.15 , 1.1)	
Inner middle cowl pan screw	2	5	1 (0.15 , 1.1)	
Rear cowl truss screw	2	5	1 (0.15 , 1.1)	
Pillion seat bracket mounting bolt/nut	2	6	12 (1.2 , 9)	
Pillion seat mounting nut	2	6	10 (1.05 , 8)	NOTE 7
Seat rail mounting bolt, 8 mm	4	8	39 (4.0 , 29)	
10 mm	2	10	39 (4.0 , 29)	
Pillion footpeg mounting socket bolt	4	8	39 (4.0 , 29)	
Exhaust pipe joint flange nut	8	7	12 (1.2 , 9)	
FUEL SYSTEM (Programmed Fuel Injection):				
Fuel filler cap bolt	3	4	2 (0.2 , 1.4)	
Fuel tube banjo bolt (fuel tank side)	1	12	22 (2.2 , 16)	
Fuel tube sealing nut (throttle body side)	1	12	22 (2.2 , 16)	
Fuel pump mounting nut	6	6	12 (1.2 , 9)	
(see tightening sequence below)				
				
Exhaust valve mounting bolt (front)	4	6	14 (1.4 , 10)	
(rear)	4	6	14 (1.4 , 10)	
Exhaust valve cover mounting bolt	4	6	12 (1.2 , 9)	
Exhaust valve pulley nut	1	7	12 (1.2 , 9)	
Exhaust valve pulley cover mounting bolt (lower)	1	6	12 (1.2 , 9)	
O_2 sensor	1	12	25 (2.6 , 19)	
COOLING SYSTEM:				
Cooling fan nut	1	5	3 (0.27 , 2.0)	
Fan motor nut	3	6	5 (0.5 , 3.6)	
ENGINE MOUNTING:				
Main footpeg bracket mounting socket bolt	4	8	39 (4.0 , 29)	
Main footpeg mounting bolt	2	10	44 (4.5 , 33)	NOTE 8
Bank sensor	2	8	12 (1.2 , 9)	
Lower bracket mounting nut	1	10	42 (4.3 , 31)	See page 7-11 NOTE 7
Lower bracket mounting pinch bolt	1	8	26 (2.7 , 20)	
Engine hanger nut (front)	2	10	39 (4.0 , 29)	See page 7-6
Engine hanger nut (middle)	1	12	54 (5.5 , 40)	
Engine hanger nut (rear)	1	12	54 (5.5 , 40)	
Rear engine hanger pinch bolt	1	8	26 (2.7 , 20)	
Side stand bracket bolt	2	10	44 (4.5 , 33)	NOTE 8
Side stand pivot bolt	1	10	10 (1.0 , 7)	
Side stand pivot lock nut	1	10	29 (3.0 , 22)	NOTE 7
CLUTCH/GEARSHIFT LINKAGE:				
Gearshift pedal link pinch bolt	1	6	10 (1.0 , 7)	

FRAME (Cont'd)

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kgf·m, lbf·ft)	REMARKS
FRONT WHEEL/SUSPENSION/STEERING:				
Handlebar pinch bolt	2	8	26 (2.7 , 20)	
Handlebar weight mounting screw	2	6	10 (1.0 , 7)	NOTE 8
Steering stem nut	1	24	103 (10.5 , 76)	See page 13-31
Top thread A	1	26	29 (3.0 , 22)	
Top thread B	1	26		
Fork top bridge pinch bolt	2	8	22 (2.2 , 16)	
Fork bottom bridge pinch bolt	4	8	26 (2.7 , 20)	
Front axle bolt	1	18	78 (8.0 , 58)	
Front axle holder pinch bolt	4	8	22 (2.2 , 16)	
Front brake disc mounting bolt	12	6	20 (2.0 , 14)	NOTE 8
Fork bolt	2	42	22 (2.2 , 16)	
Fork center bolt	2	10	34 (3.5 , 25)	
REAR WHEEL/SUSPENSION:				
Rear axle nut	1	22	113 (11.5 , 83)	NOTE 7
Rear brake disc mounting bolt	4	8	42 (4.3 , 31)	NOTE 8
Driven sprocket nut	5	10	64 (6.5 , 47)	NOTE 7
Rear shock absorber upper mounting nut	1	10	44 (4.5 , 33)	NOTE 7
Shock arm plate nut	3	10	44 (4.5 , 33)	NOTE 7
Shock link nut (frame side)	1	10	44 (4.5 , 33)	NOTE 7
Swingarm pivot nut	1	24	118 (12.0 , 87)	NOTE 7
Swingarm pivot pinch bolt	2	8	26 (2.7 , 20)	
Drive chain slider bolt	3	6	9 (0.9 , 6.5)	NOTE 8
HYDRAULIC BRAKE:				
Front brake master cylinder cup mounting nut	1	6	6 (0.6 , 4.3)	NOTE 7
Brake lever pivot bolt	1	6	10 (1.0 , 7)	
Brake lever pivot nut	1	6	6 (0.6 , 4.3)	
Front brake switch screw	1	4	1 (0.12 , 0.9)	
Front brake caliper mounting bolt	4	8	30 (3.1 , 22)	NOTE 8
Caliper body assembly torx bolt	8	8	23 (2.3 , 17)	NOTE 8
Pad pin	3	10	18 (1.8 , 13)	
Pad pin plug	1	10	2 (0.25 , 1.8)	
Brake caliper bleeder	3	8	6 (0.6 , 4.3)	
Rear brake hose clamp screw	4	5	4 (0.4 , 2.9)	NOTE 8
Rear master cylinder push rod nut	1	8	18 (1.8 , 13)	
Rear master cylinder hose joint screw	1	4	1 (0.15 , 1.1)	NOTE 2
Rear brake caliper pin bolt (main)	1	12	27 (2.8 , 20)	NOTE 2
Rear brake caliper pin bolt (sub)	1	8	22 (2.2 , 16)	NOTE 2
Brake hose oil bolt	5	10	34 (3.5 , 25)	
LIGHTS/METERS/SWITCHES:				
Ignition switch mounting one-way bolt	2	8	26 (2.7 , 20)	
Side stand switch mounting bolt	1	6	10 (1.0 , 7)	
Fan motor switch	1	16	18 (1.8 , 13)	NOTE 1

TOOLS

NOTES: 1.Equivalent commercially available in U.S.A.
2.Not available in U.S.A.
3.Alternative tool.
4.Newly provided tool.
5.Newly designed tool.

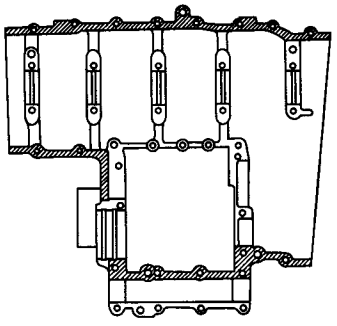
DESCRIPTION	TOOL NUMBER	REMARKS	REF. SEC.
Fuel pressure gauge	07406-0040002		5
Oil pressure gauge set	07506-3000000		4
Oil pressure gauge attachment	07510-MA70000		4
Clutch center holder	07724-0050002		9
Flywheel holder	07725-0040000	NOTE 1	10
Flywheel puller	07733-0020001		10
Attachment, 42 × 47 mm	07746-0010300		9, 13, 14
Attachment, 52 × 55 mm	07746-0010400		14
Attachment, 24 × 26 mm	07746-0010700		14
Attachment, 22 × 24 mm	07746-0010800		14
Attachment, 40 × 42 mm	07746-0010900	NOTE 5	14
Driver, 40 mm I.D.	07746-0030100		12
Attachment, 30 mm I.D.	07746-0030300		12
Pilot, 17 mm	07746-0040400		14
Pilot, 25 mm	07746-0040600		13, 14
Pilot, 35 mm	07746-0040800		9
Bearing remover shaft	07746-0050100		13, 14
Bearing remover head, 25 mm	07746-0050800		13, 14
Driver	07749-0010000		13, 14
Valve spring compressor	07757-0010000		8
Valve seat cutter		NOTE 1	8
Seat cutter, 24.5 mm (45° EX)	07780-0010100		
Seat cutter, 29 mm (45° IN)	07780-0010300		
Flat cutter, 25 mm (32° EX)	07780-0012000		
Flat cutter, 33 mm (32° IN)	07780-0012900		
Interior cutter, 26 mm (60° EX)	07780-0014500		
Interior cutter, 30 mm (60° IN)	07780-0014000		
Cutter holder, 4.5 mm	07781-0010600		
Snap ring pliers	07914-SA50001	NOTE 3: 07914-3230001	15
Steering stem socket	07916-3710101	NOTE 3: 07916-3710100	13
Ball race remover set	07946-KM90001	NOTE 3:	13
—Driver attachment, A	07946-KM90100	Can be used with the	
—Driver attachment, B	07946-KM90200	following combination	
—Driver shaft assembly	07946-KM90300	(U.S.A only):	
—Bearing remover, A	07946-KM90401	07VMF-MAT0100	
—Bearing remover, B	07946-KM90500	07VMF-MAT0200	
—Assembly base	07946-KM90600	07VMF-KZ30200	
		07VMF-MAT0300	
		07VMF-MAT0400	
		07947-KA50100	
		07965-MA60000	
		07946-ME90200	
Steering stem driver	07946-MB00000		13
Driver shaft	07946-MJ00100		14
Driver attachment handle	07949-3710001		14
Valve spring compressor attachment	07959-KM30101		8
Oil filter wrench	07HAA-PJ70100		3
Peak voltage adaptor	07HGJ-0020100	NOTE 3: Peak voltage tester (U.S.A. only)	5, 17, 19

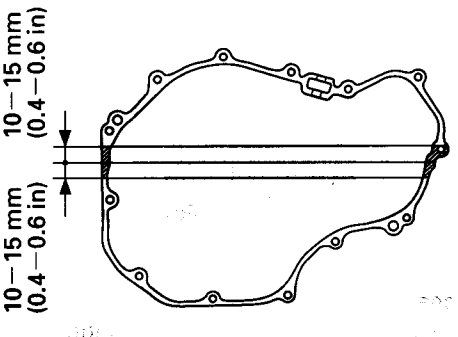
DESCRIPTION	TOOL NUMBER	REMARKS	REF. SEC.
Tappet hole protector	07HMG-MR70002	NOTE 2	8
Valve guide driver	07HMD-ML00101		8
Valve guide driver, 4.508 mm	07HMH-ML00101	NOTE 3: 07HMH-ML0010A (U.S.A. only)	8
Drive chain tool set	07HMH-MR10103	NOTE 3: 07HMH-MR1010B (U.S.A. only)	3
Needle bearing remover	07LMC-KV30100		14
Driver pilot, 32 × 50 mm	07MAD-PR90200		14
Compression gauge attachment	07RMJ-MY50100		8
Fork damper holder	07YMB-MCF0101		13
Oil seal driver	07YMD-MCF0100	NOTE 3: 07KMD-KZ30100 with 07NMD-KZ30101 (except U.S.A.) 07NMD-KZ3010A (U.S.A. only)	13
Driver attachment, 25 × 38.5 mm	07YMD-MCJ0100	NOTE 5	14
Installer shaft guide	07YMF-MCJ0100	NOTE 5	5
Installer shaft	07YMF-MCJ0200	NOTE 5	5
Installer shaft, 14 × 30 mm	07YMF-MCJ0300	NOTE 5	5
Remover, 14 × 16 mm	07YMF-MCJ0400	NOTE 5	5
ECU test harness	07YMZ-0010100	NOTE 4	5

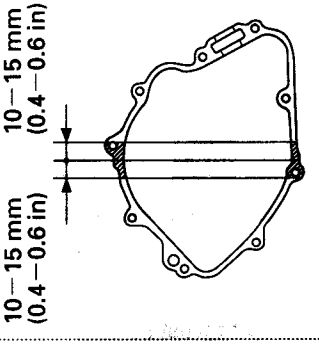
LUBRICATION & SEAL POINTS

ENGINE

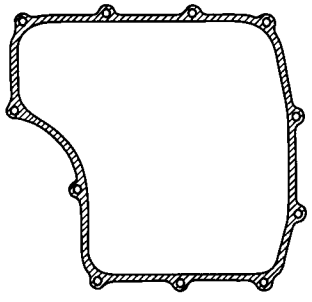
LOCATION	MATERIAL	REMARKS
Crankcase mating surface	Liquid sealant (Three Bond 1207B or equivalent)	



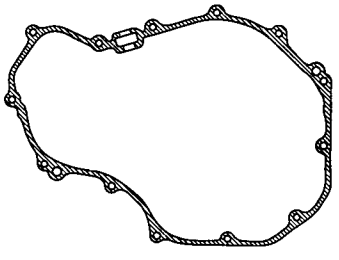




Oil pan mating surface

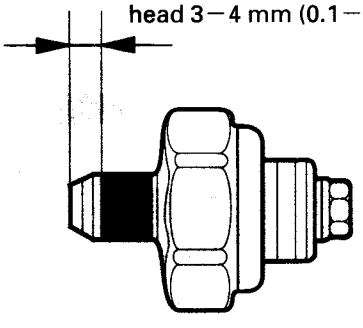


Right crankcase cover mating surface

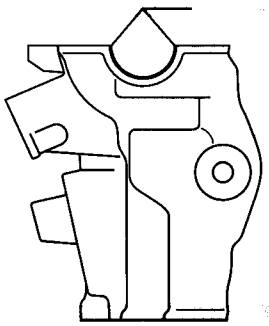
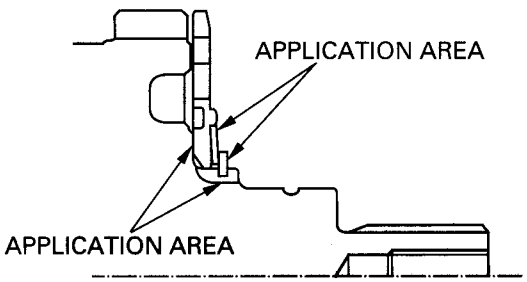


Oil pressure switch threads

Do not apply sealant to the thread head 3—4 mm (0.1—0.2 in).



ENGINE (Cont'd)

LOCATION	MATERIAL	REMARKS
Cylinder head semi-circular cut-out 	Sealant	
Main journal bearing surface Piston pin sliding surface Connecting rod bearing surface Connecting rod small end inner surface Crankshaft thrust surface Camshaft lobes/journals and thrust surface Valve stem (valve guide sliding surface) Valve lifter outer sliding surface Clutch outer/primary driven gear sliding surface Clutch outer guide sliding surface M3/4, C5, C6, shifter gear (shift fork grooves) Starter reduction gear shaft outer surface Primary sub-gear friction spring sliding surface 	Molybdenum disulfide oil (a mixture of 1/2 engine oil and 1/2 molybdenum disulfide grease)	
Piston ring sliding area Oil strainer packing Clutch disc surface Starter one-way clutch sliding surface Connecting rod nut threads Flywheel bolt threads and seating surface Main journal 9 mm bolt threads and seating surface (after removing anti-rust oil additive) Cylinder head special bolt (after removing anti-rust oil additive) Clutch center lock nut threads Oil filter cartridge threads and O-ring Camshaft holder bolt threads and seating surface Oil cooler center bolt threads Each gear teeth and rotating surface Each bearing Each O-ring Other rotating area and sliding surface	Engine oil	

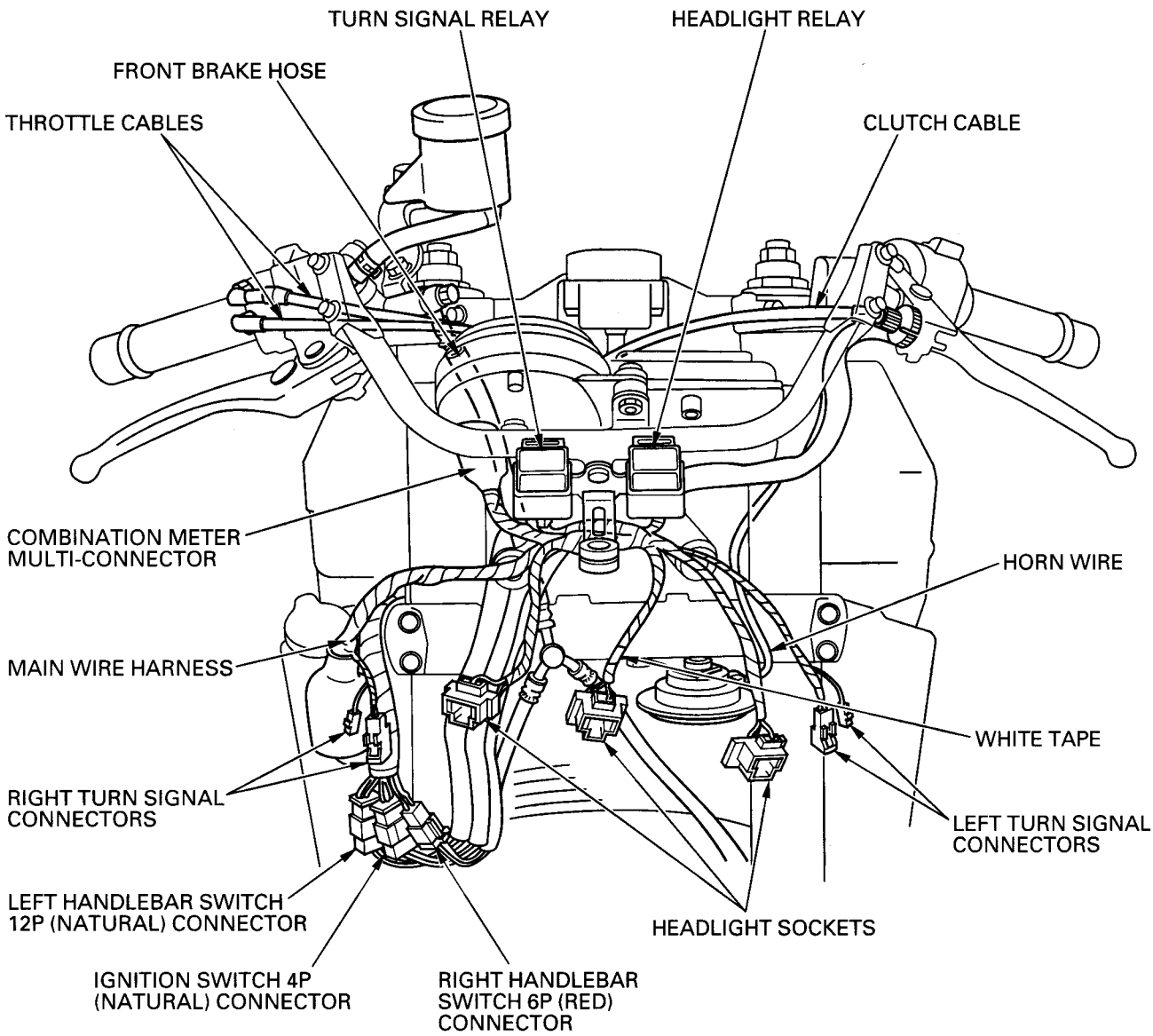
ENGINE (Cont'd)

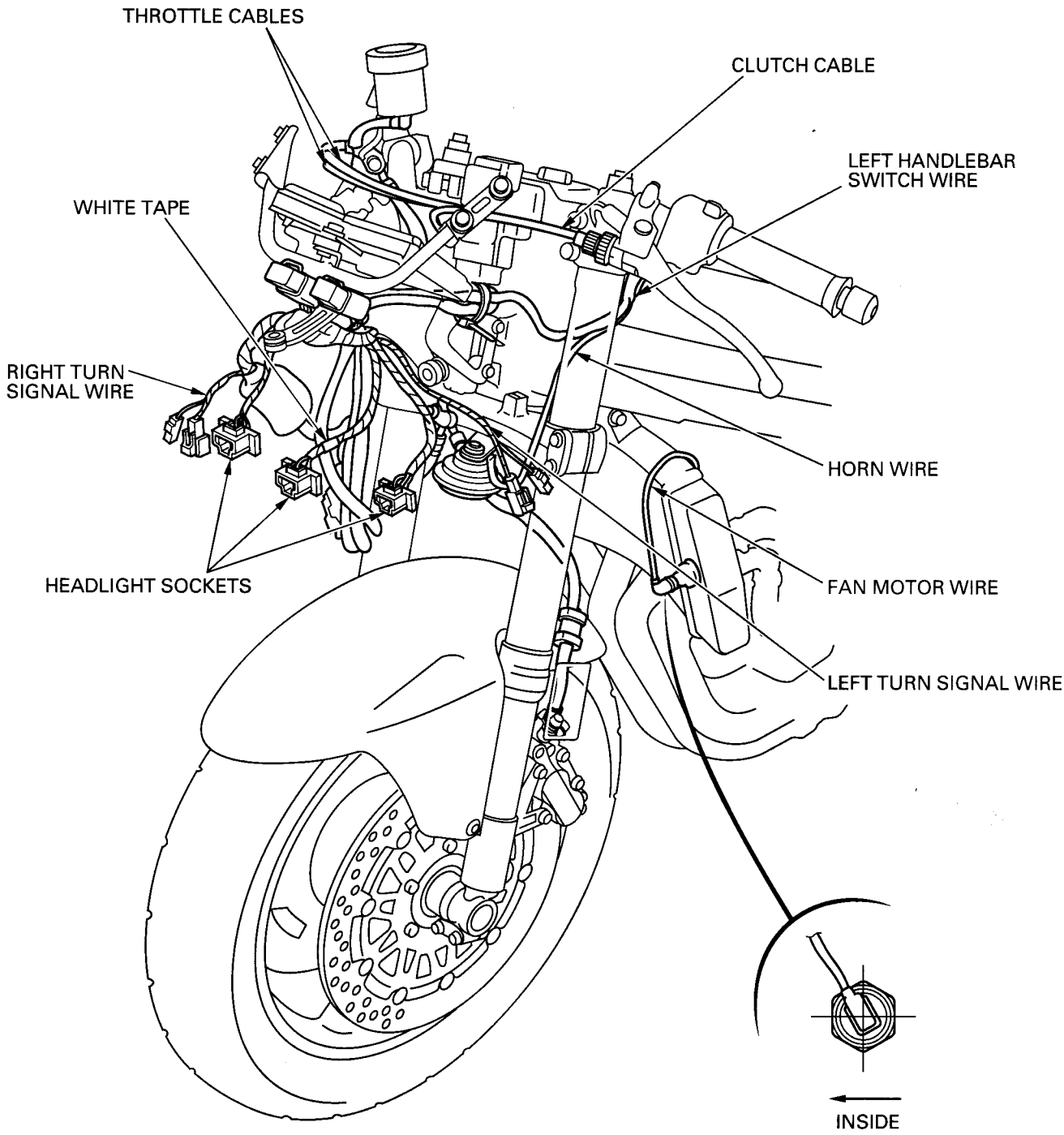
LOCATION	MATERIAL	REMARKS
Timing hole cap threads Oil seal lips	Multi-purpose grease	
Upper crankcase sealing bolt threads Lower crankcase sealing bolt threads Cam chain guide A mounting bolt threads Cam pulse generator rotor bolt threads Cylinder head sealing bolt threads Cylinder head cover breather joint threads Starter one-way clutch outer bolt threads Oil pump driven sprocket bolt threads Shift drum bearing set plate bolt threads Mainshaft bearing set plate bolt threads Cam sprocket bolt threads Cylinder head cover breather plate bolt threads Shift drum center bolt threads Cam chain tensioner pivot bolt threads Cam chain guide pivot bolt threads Gearshift return spring pin	Locking agent	Coating width: 6.5 ± 1 mm

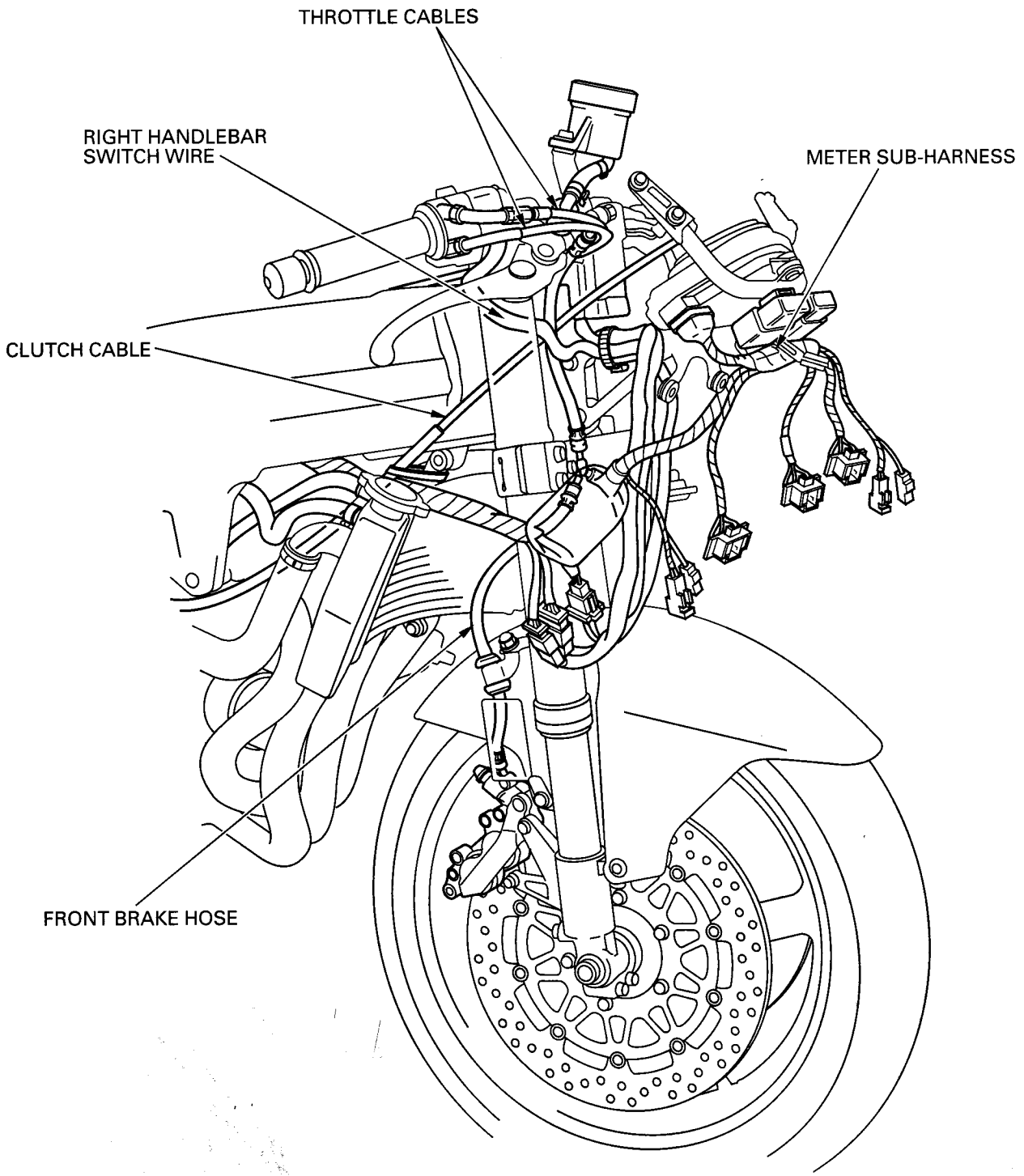
FRAME

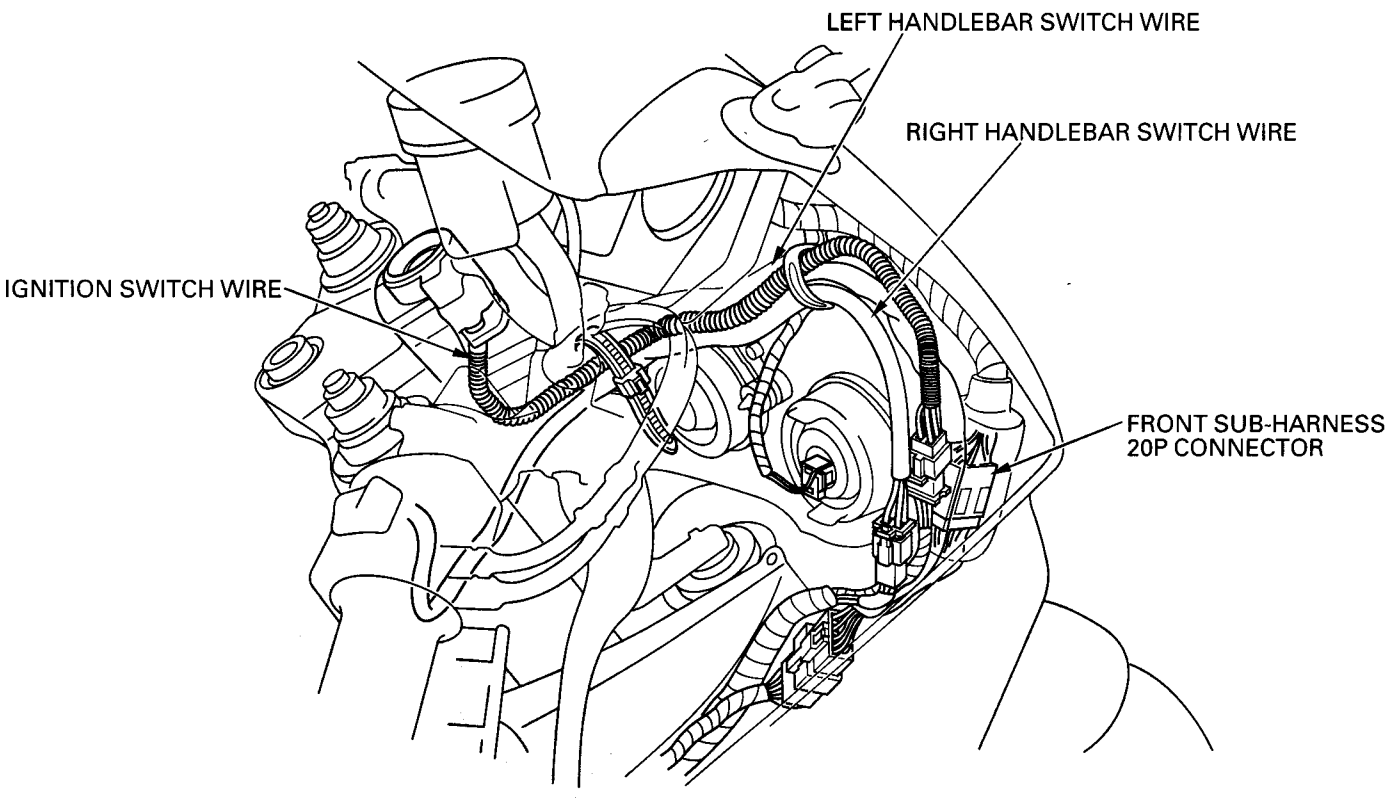
LOCATION	MATERIAL	REMARKS
Front wheel dust seal lips Rear wheel dust seal lips Footpeg sliding area Pillion footpeg sliding area Rear brake pedal pivot sliding area Gearshift pedal pivot sliding area Clutch lever pivot bolt sliding area Throttle pipe sliding area Pillion seat pivot sliding area Pillion seat catch hook Pillion seat spring sliding area Pillion seat spring cross plate contact area	Multi-purpose grease	
Steering head bearing sliding surface Steering head dust seal lips Swingarm pivot bearing Swingarm pivot dust seal lips Shock absorber needle bearing Shock absorber dust seal lips	Multi-purpose grease (Shell Alvania EP2 or equivalent)	
Side stand pivot surface Throttle pipe cable sliding surface	Molybdenum disulfide grease	
Shock absorber spring adjuster cam surface	Molybdenum paste	
Radiator fan motor switch threads	Liquid sealant	
Steering stem top thread Throttle cable casing inner Brake pipe joint threads	Engine oil	
Throttle cable A, B casing inner Clutch cable casing inner Variable intake valve cable inner Variable exhaust valve cable A, B casing inner	Cable lubricant	
Brake master cylinder cups Brake caliper piston seals	DOT 4 brake fluid	
Brake caliper dust seals Front brake lever pivot and piston tips Rear master cylinder boot inside and push rod tips Rear brake caliper slide pin surface	Silicon grease	
Rear brake caliper slide pin threads Rear master cylinder hose joint screw threads Driven sprocket stud bolt threads	Locking agent	
Handle grip rubber inside	Honda Bond A	
Fork cap O-ring Fork oil seal lips	Fork fluid	

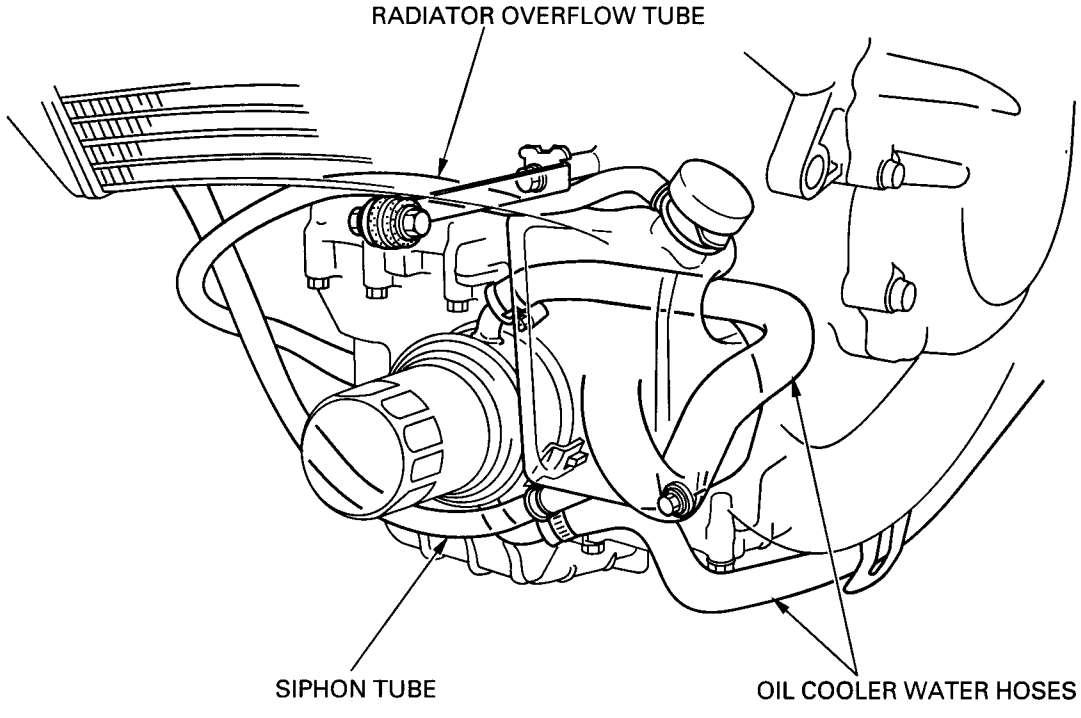
CABLE & HARNESS ROUTING

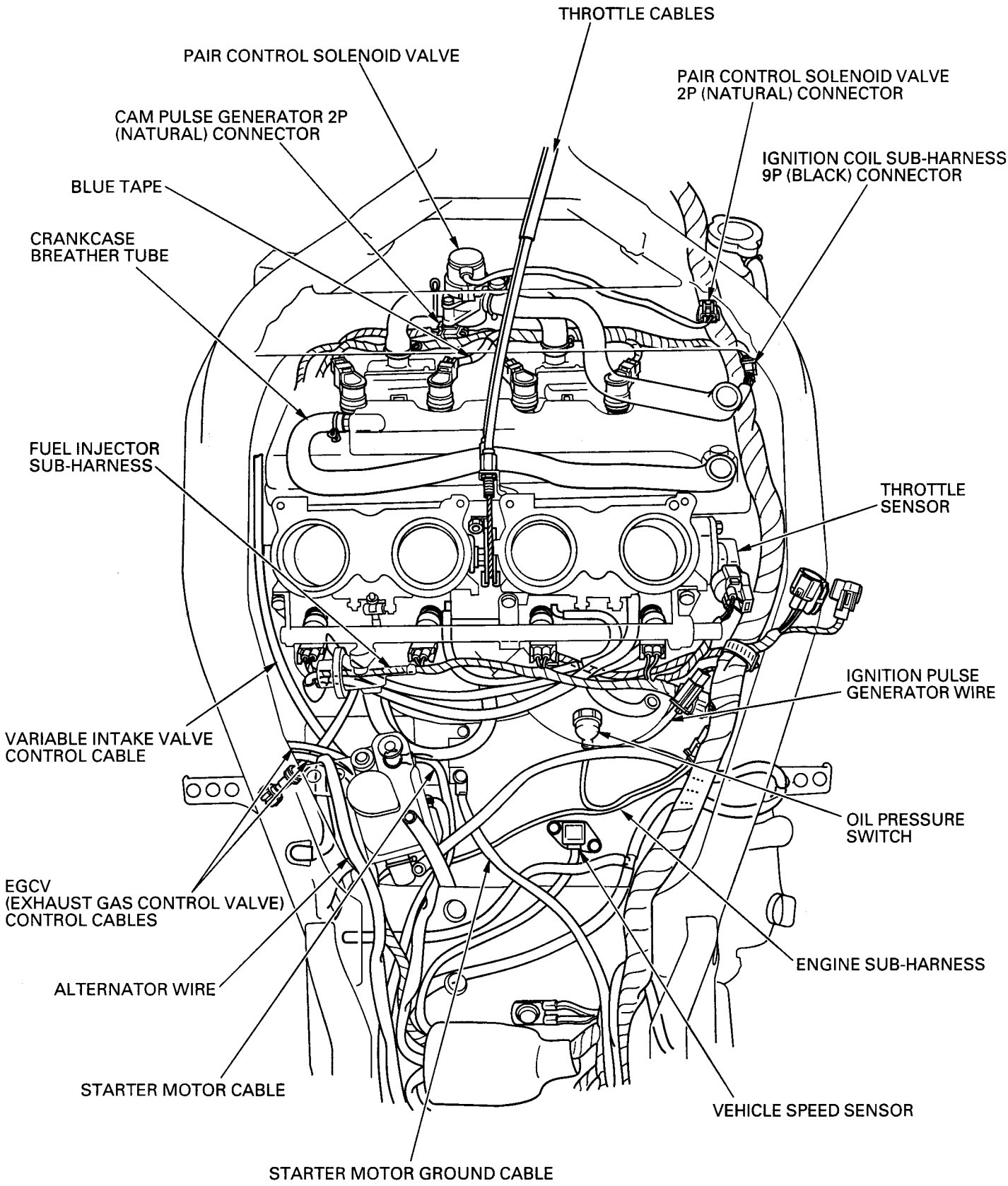


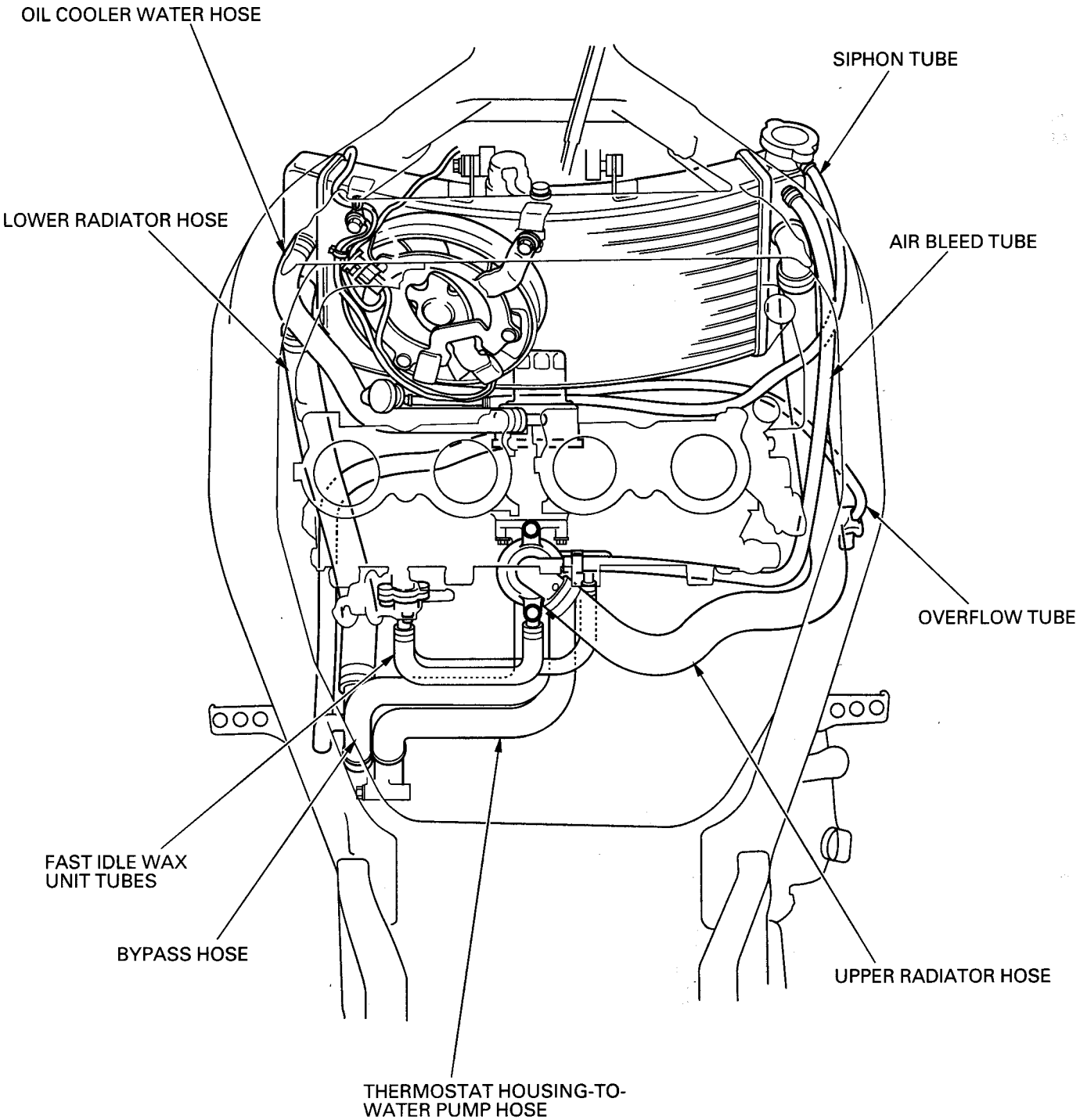

THROTTLE CABLES
CLUTCH CABLE
LEFT HANDLEBAR SWITCH WIRE
WHITE TAPE
RIGHT TURN SIGNAL WIRE
HORN WIRE
HEADLIGHT SOCKETS
FAN MOTOR WIRE
LEFT TURN SIGNAL WIRE
INSIDE

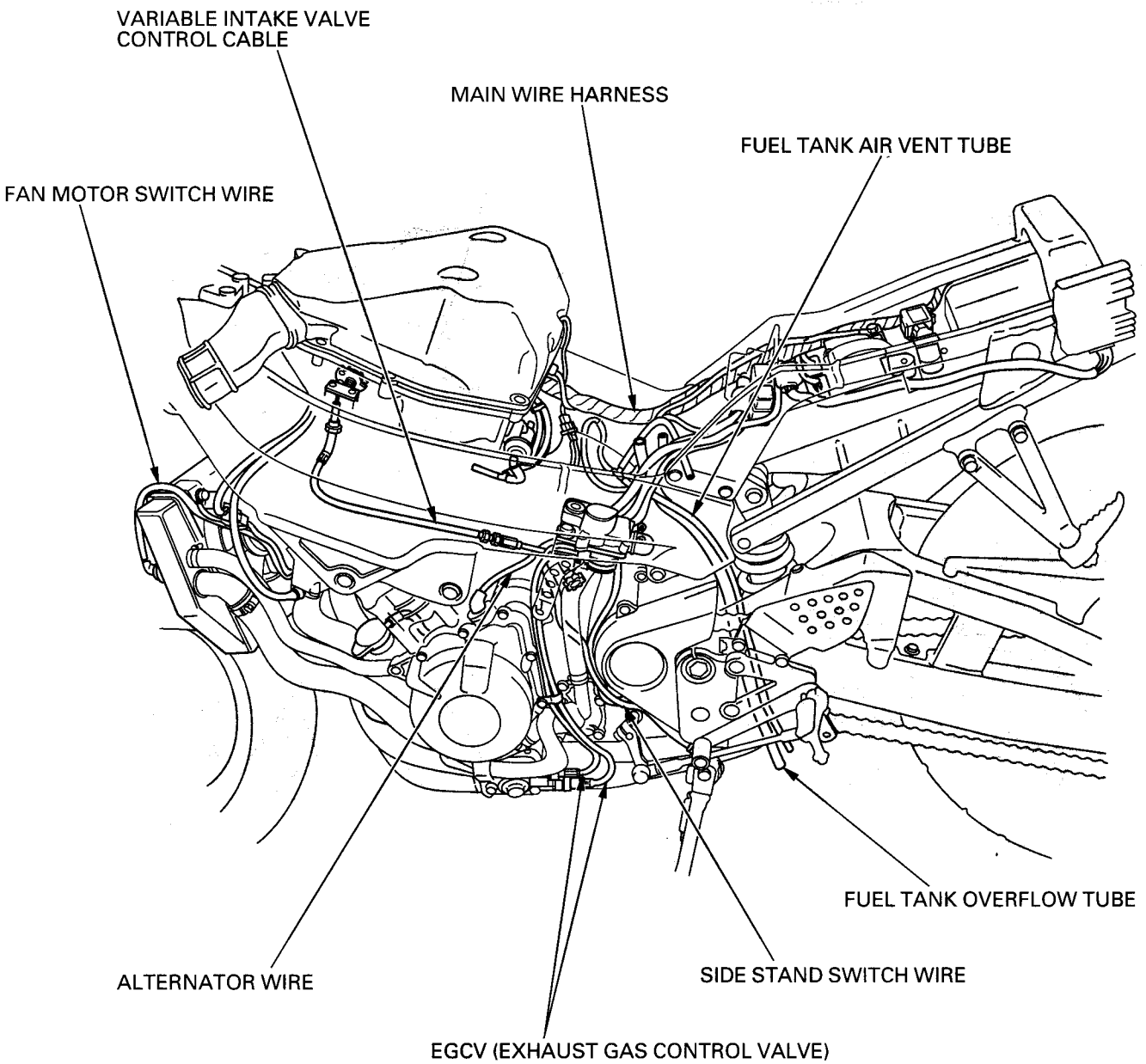

THROTTLE CABLES
RIGHT HANDLEBAR SWITCH WIRE
METER SUB-HARNESS
CLUTCH CABLE
FRONT BRAKE HOSE

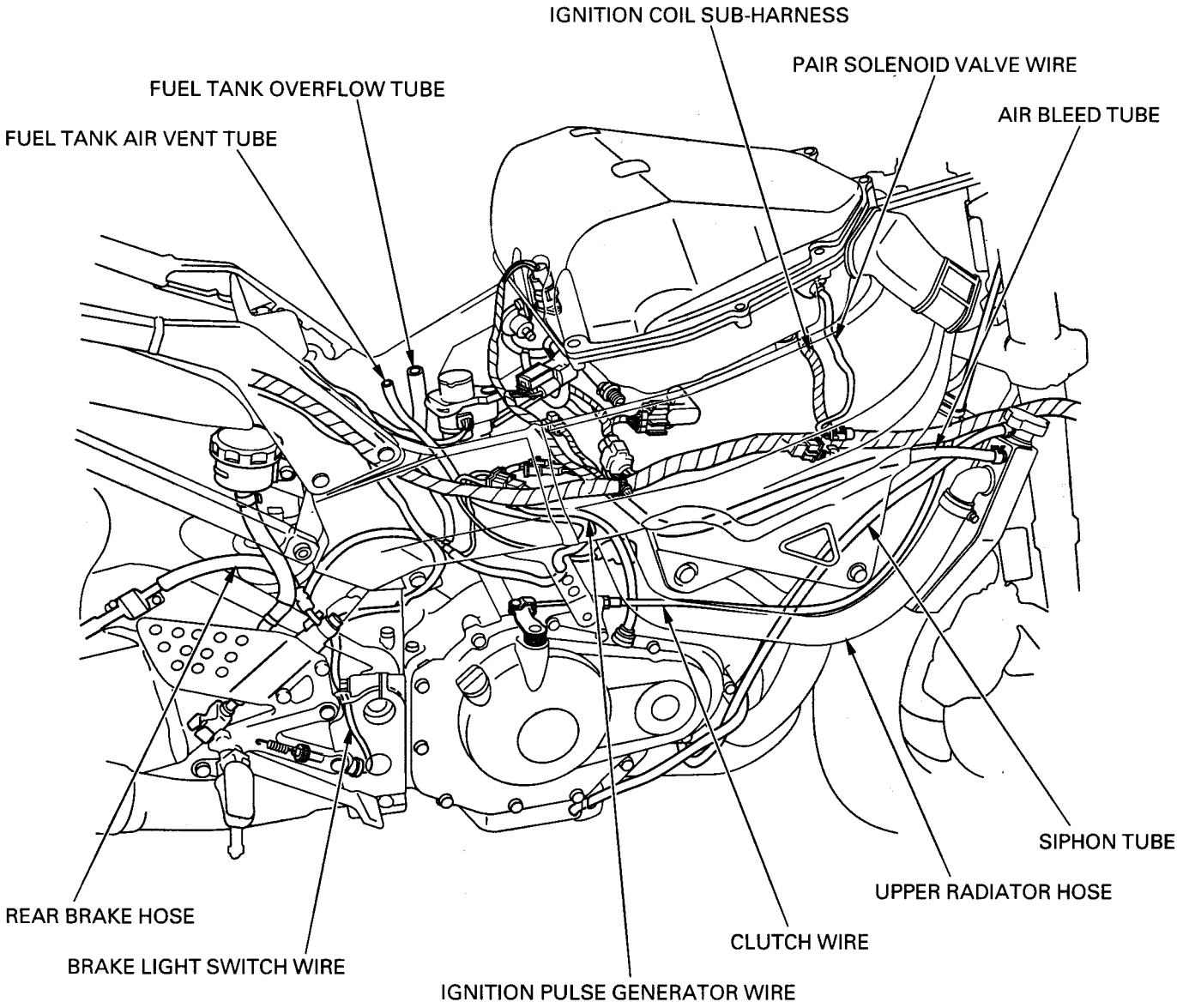

LEFT HANDLEBAR SWITCH WIRE
RIGHT HANDLEBAR SWITCH WIRE
IGNITION SWITCH WIRE
FRONT SUB-HARNESS
20P CONNECTOR

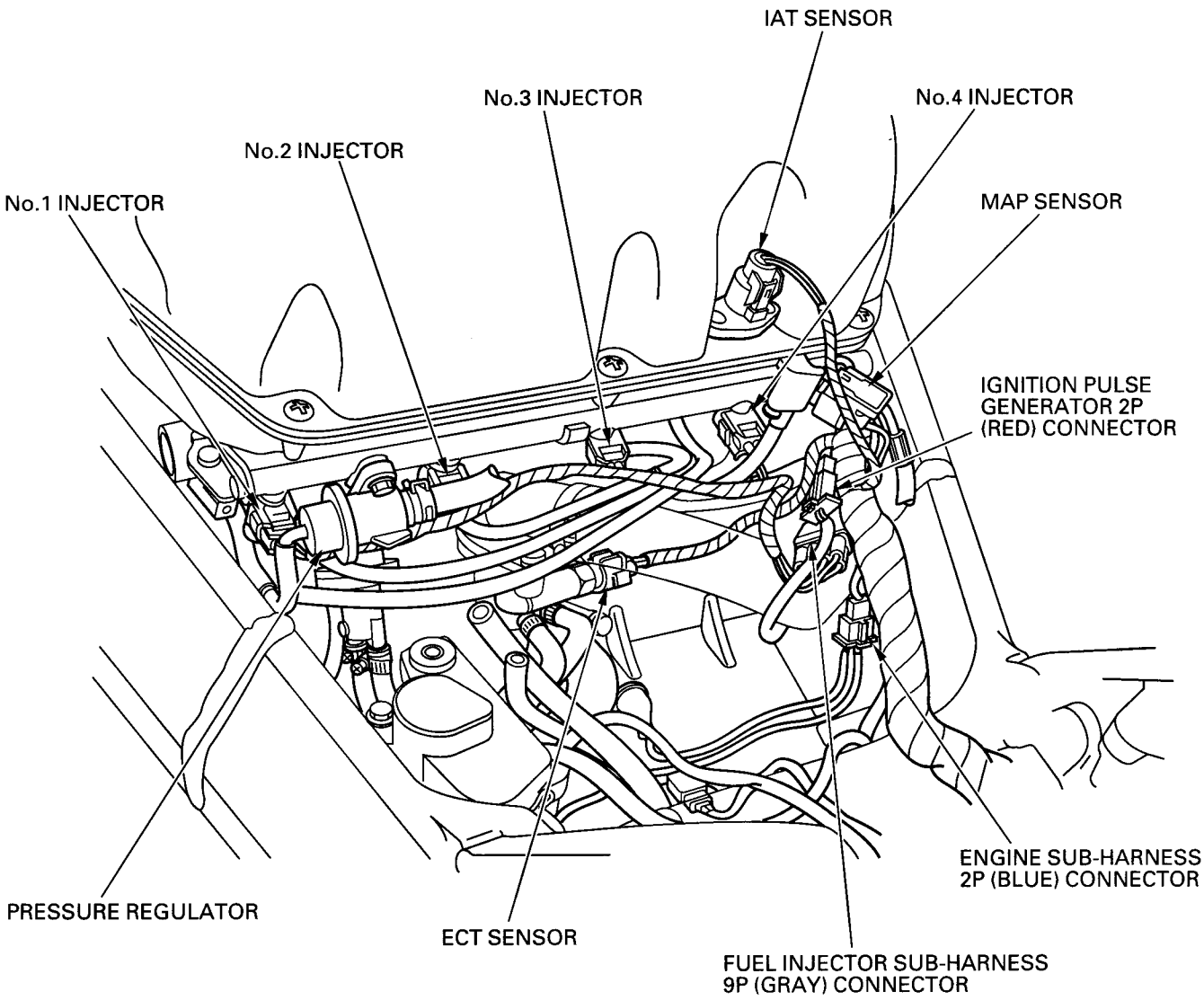

RADIATOR OVERFLOW TUBE
SIPHON TUBE
OIL COOLER WATER HOSES

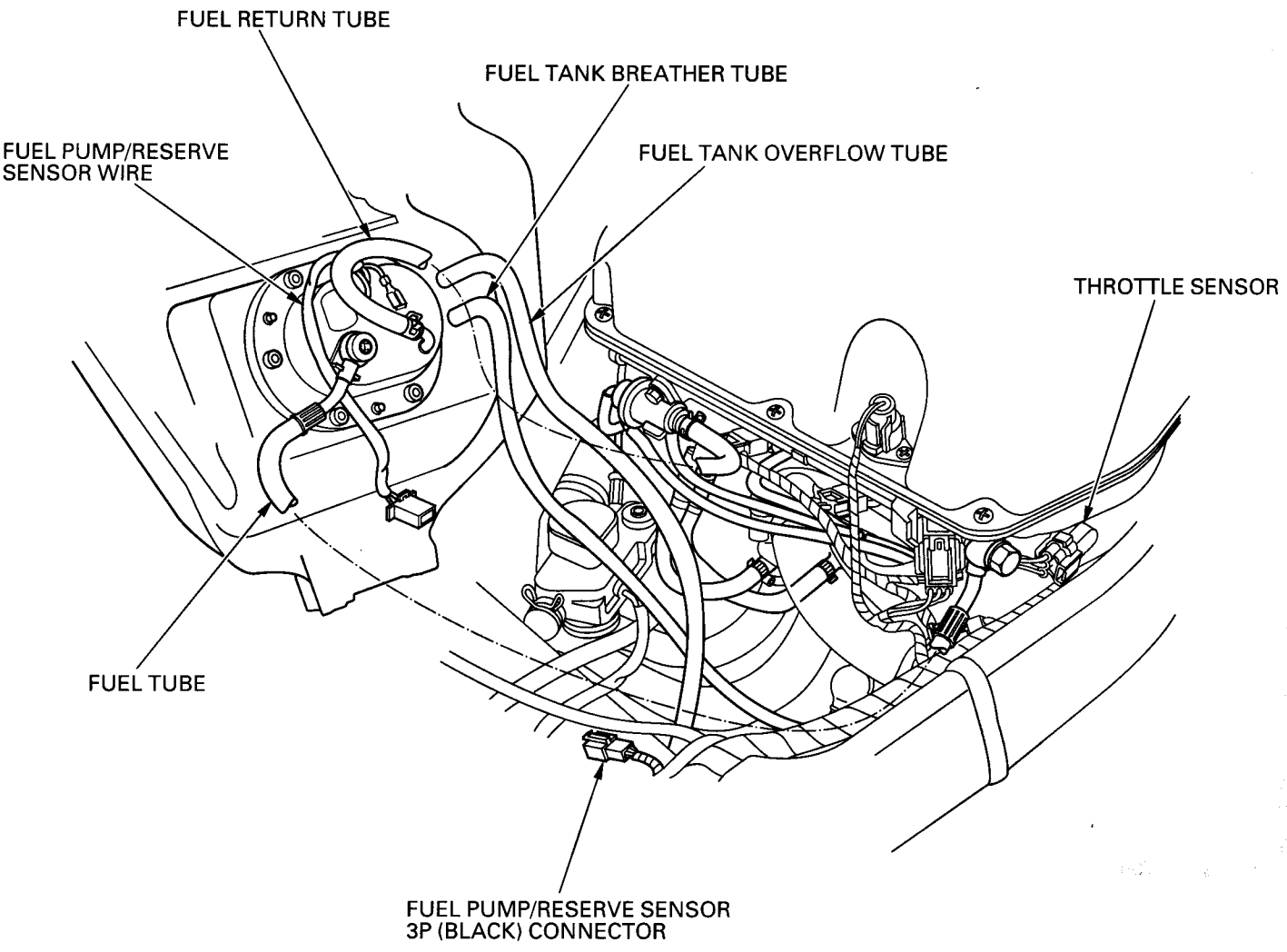

THROTTLE CABLES
PAIR CONTROL SOLENOID VALVE
PAIR CONTROL SOLENOID VALVE 2P (NATURAL) CONNECTOR
CAM PULSE GENERATOR 2P (NATURAL) CONNECTOR
IGNITION COIL SUB-HARNESS 9P (BLACK) CONNECTOR
BLUE TAPE
CRANKCASE BREATHER TUBE
FUEL INJECTOR SUB-HARNESS
THROTTLE SENSOR
IGNITION PULSE GENERATOR WIRE
VARIABLE INTAKE VALVE CONTROL CABLE
OIL PRESSURE SWITCH
EGCV (EXHAUST GAS CONTROL VALVE) CONTROL CABLES
ENGINE SUB-HARNESS
ALTERNATOR WIRE
STARTER MOTOR CABLE
VEHICLE SPEED SENSOR
STARTER MOTOR GROUND CABLE

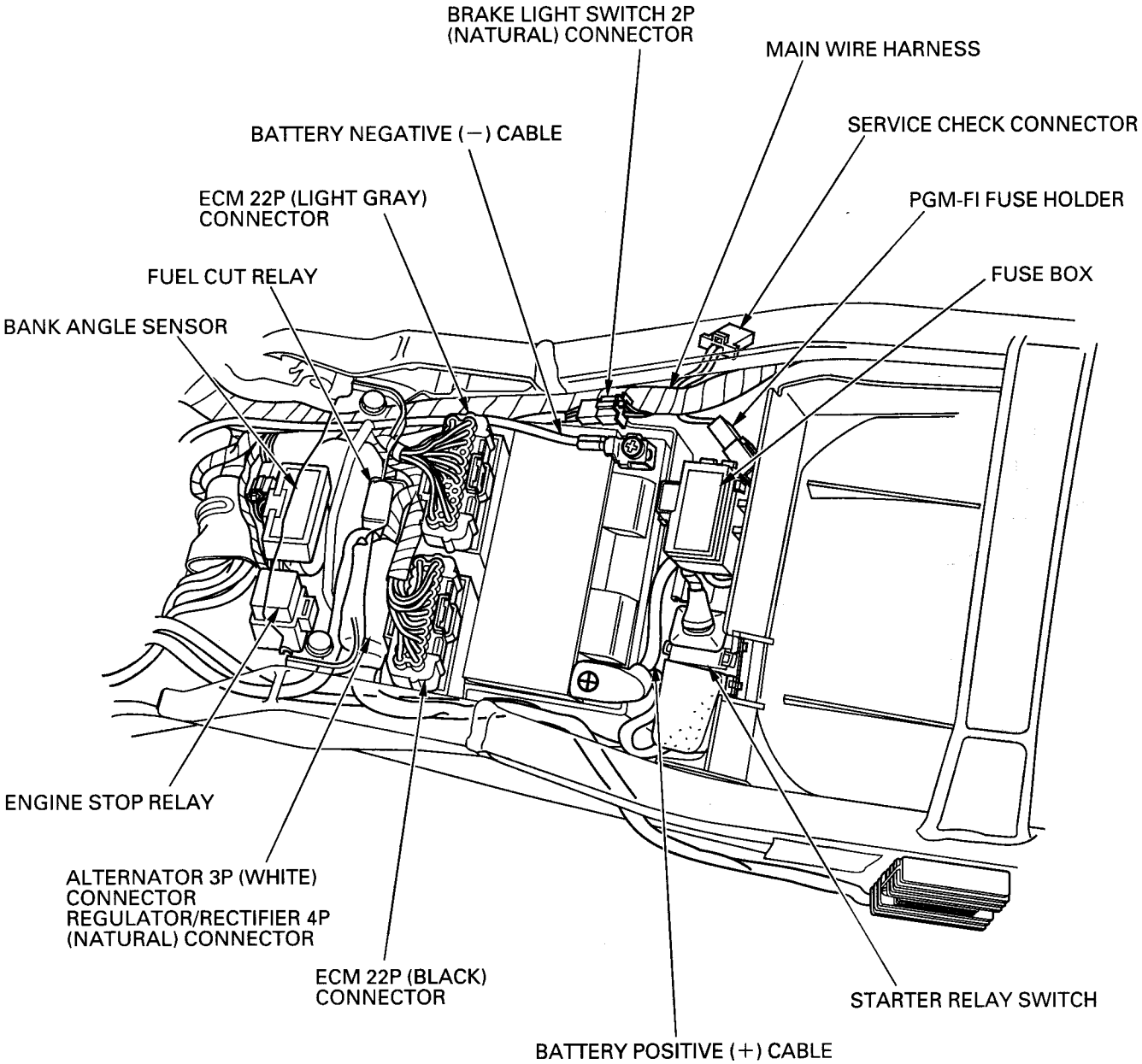

OIL COOLER WATER HOSE
SIPHON TUBE
LOWER RADIATOR HOSE
AIR BLEED TUBE
OVERFLOW TUBE
FAST IDLE WAX UNIT TUBES
BYPASS HOSE
UPPER RADIATOR HOSE
THERMOSTAT HOUSING-TO-WATER PUMP HOSE

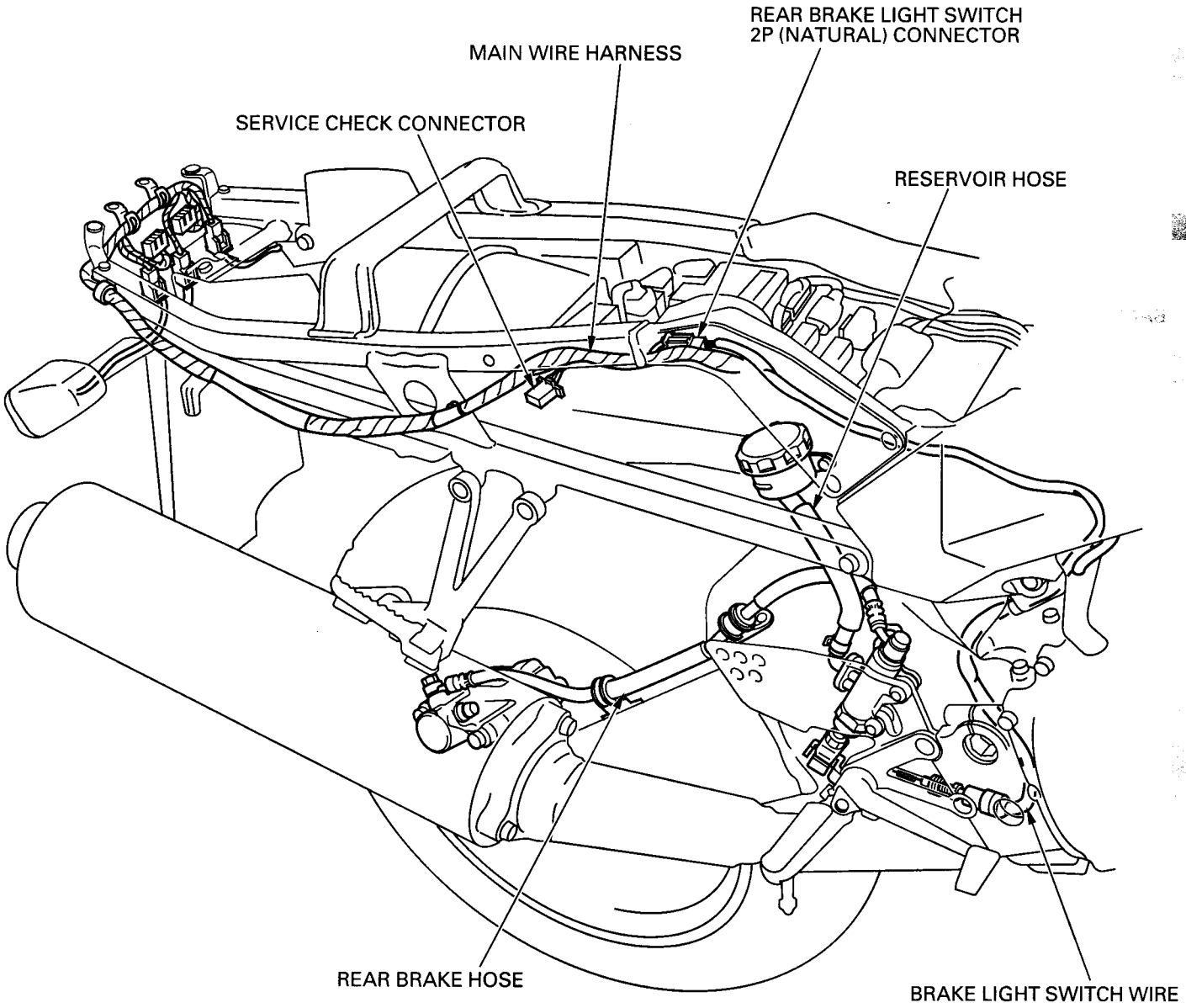

VARIABLE INTAKE VALVE CONTROL CABLE
MAIN WIRE HARNESS
FUEL TANK AIR VENT TUBE
FAN MOTOR SWITCH WIRE
FUEL TANK OVERFLOW TUBE
ALTERNATOR WIRE
SIDE STAND SWITCH WIRE
EGCV (EXHAUST GAS CONTROL VALVE)


IGNITION COIL SUB-HARNESS
PAIR SOLENOID VALVE WIRE
FUEL TANK OVERFLOW TUBE
AIR BLEED TUBE
FUEL TANK AIR VENT TUBE
SIPHON TUBE
UPPER RADIATOR HOSE
REAR BRAKE HOSE
CLUTCH WIRE
BRAKE LIGHT SWITCH WIRE
IGNITION PULSE GENERATOR WIRE

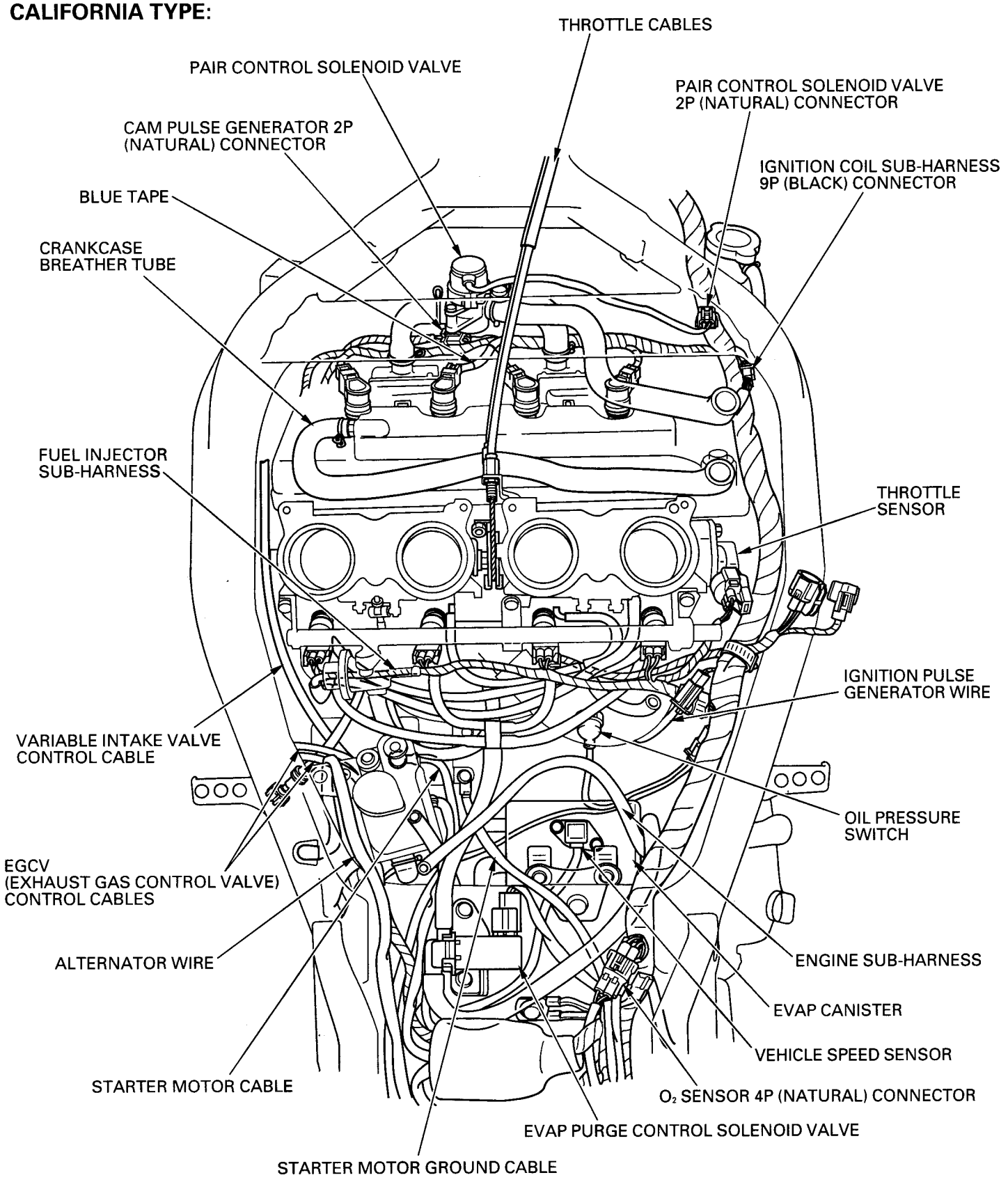

IAT SENSOR
No.3 INJECTOR
No.4 INJECTOR
No.2 INJECTOR
No.1 INJECTOR
MAP SENSOR
IGNITION PULSE GENERATOR 2P (RED) CONNECTOR
ENGINE SUB-HARNESS 2P (BLUE) CONNECTOR
PRESSURE REGULATOR
ECT SENSOR
FUEL INJECTOR SUB-HARNESS 9P (GRAY) CONNECTOR

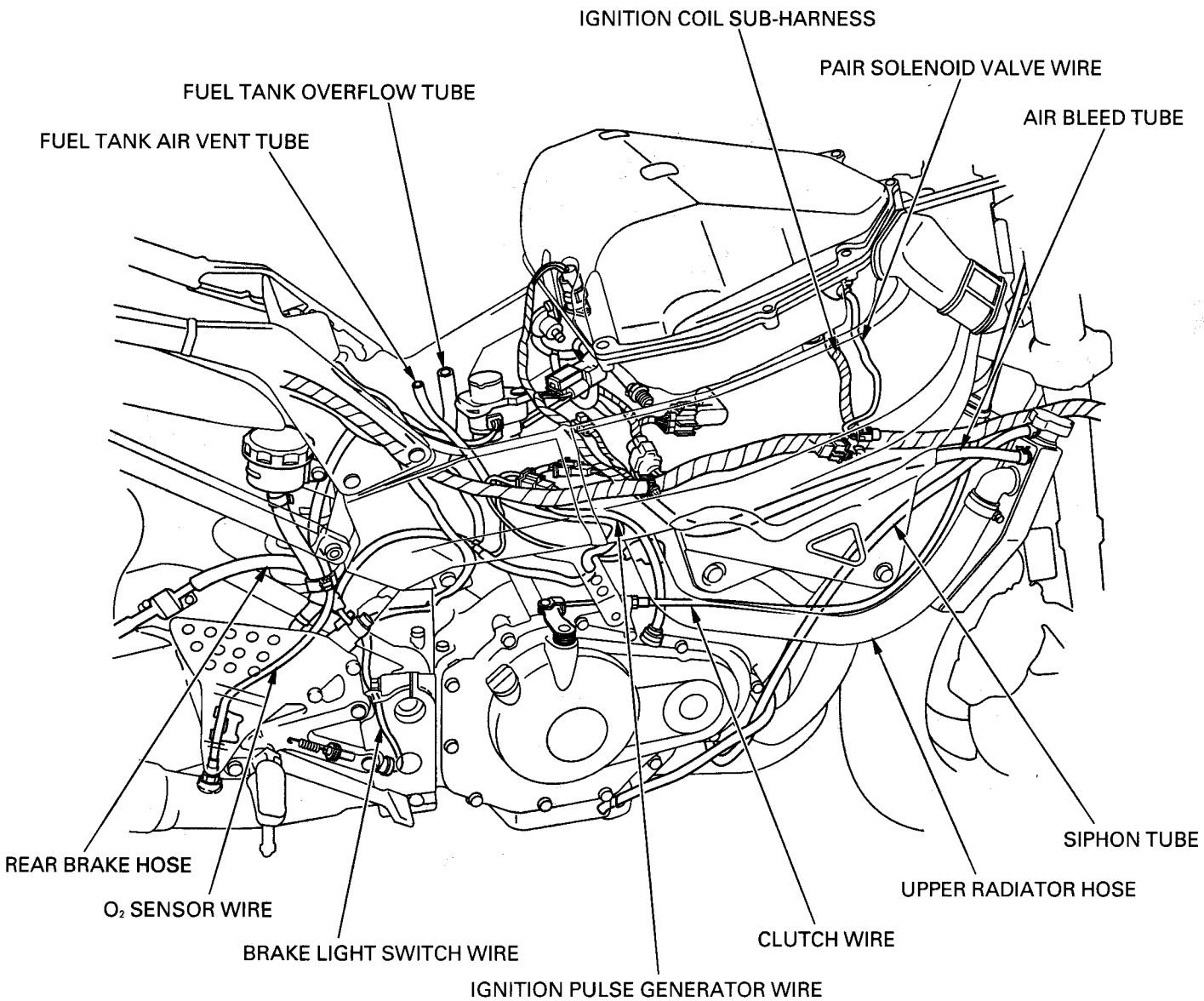

FUEL RETURN TUBE
FUEL TANK BREATHER TUBE
FUEL PUMP/RESERVE SENSOR WIRE
FUEL TANK OVERFLOW TUBE
THROTTLE SENSOR
FUEL TUBE
FUEL PUMP/RESERVE SENSOR 3P (BLACK) CONNECTOR

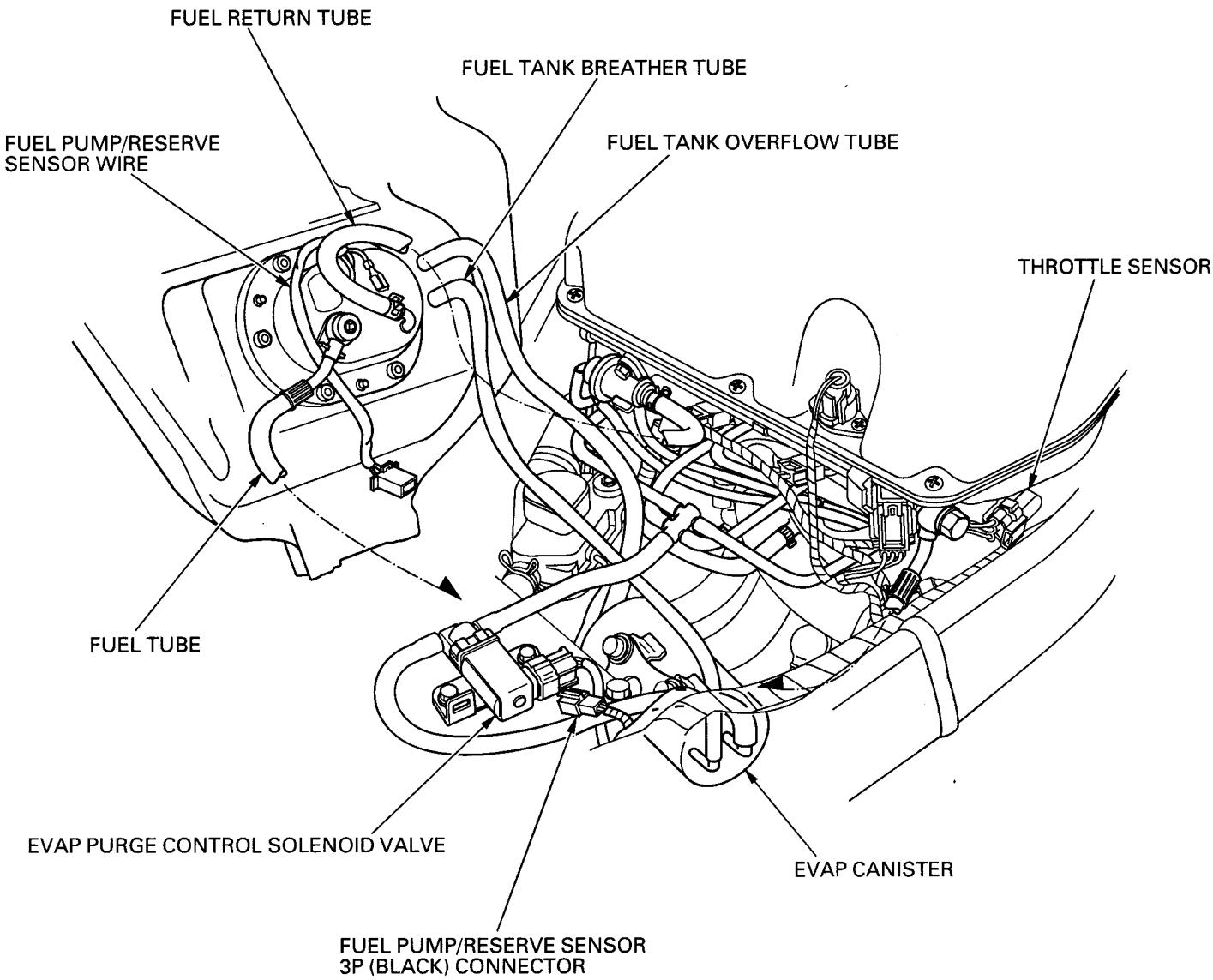

BRAKE LIGHT SWITCH 2P (NATURAL) CONNECTOR
MAIN WIRE HARNESS
BATTERY NEGATIVE (−) CABLE
SERVICE CHECK CONNECTOR
ECM 22P (LIGHT GRAY) CONNECTOR
PGM-FI FUSE HOLDER
FUEL CUT RELAY
FUSE BOX
BANK ANGLE SENSOR
ENGINE STOP RELAY
ALTERNATOR 3P (WHITE) CONNECTOR
REGULATOR/RECTIFIER 4P (NATURAL) CONNECTOR
ECM 22P (BLACK) CONNECTOR
STARTER RELAY SWITCH
BATTERY POSITIVE (+) CABLE

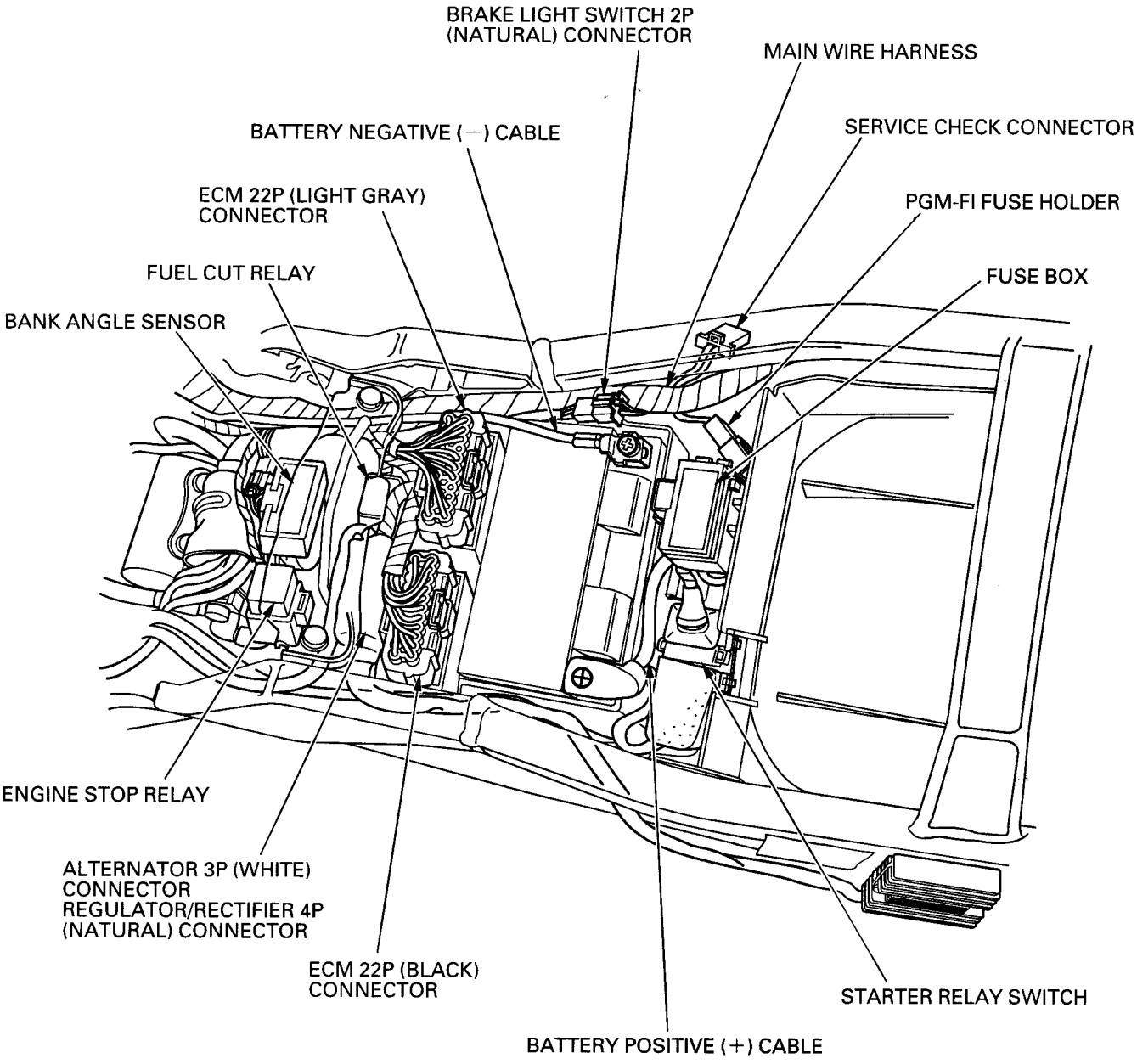

REAR BRAKE LIGHT SWITCH
2P (NATURAL) CONNECTOR
MAIN WIRE HARNESS
SERVICE CHECK CONNECTOR
RESERVOIR HOSE
REAR BRAKE HOSE
BRAKE LIGHT SWITCH WIRE

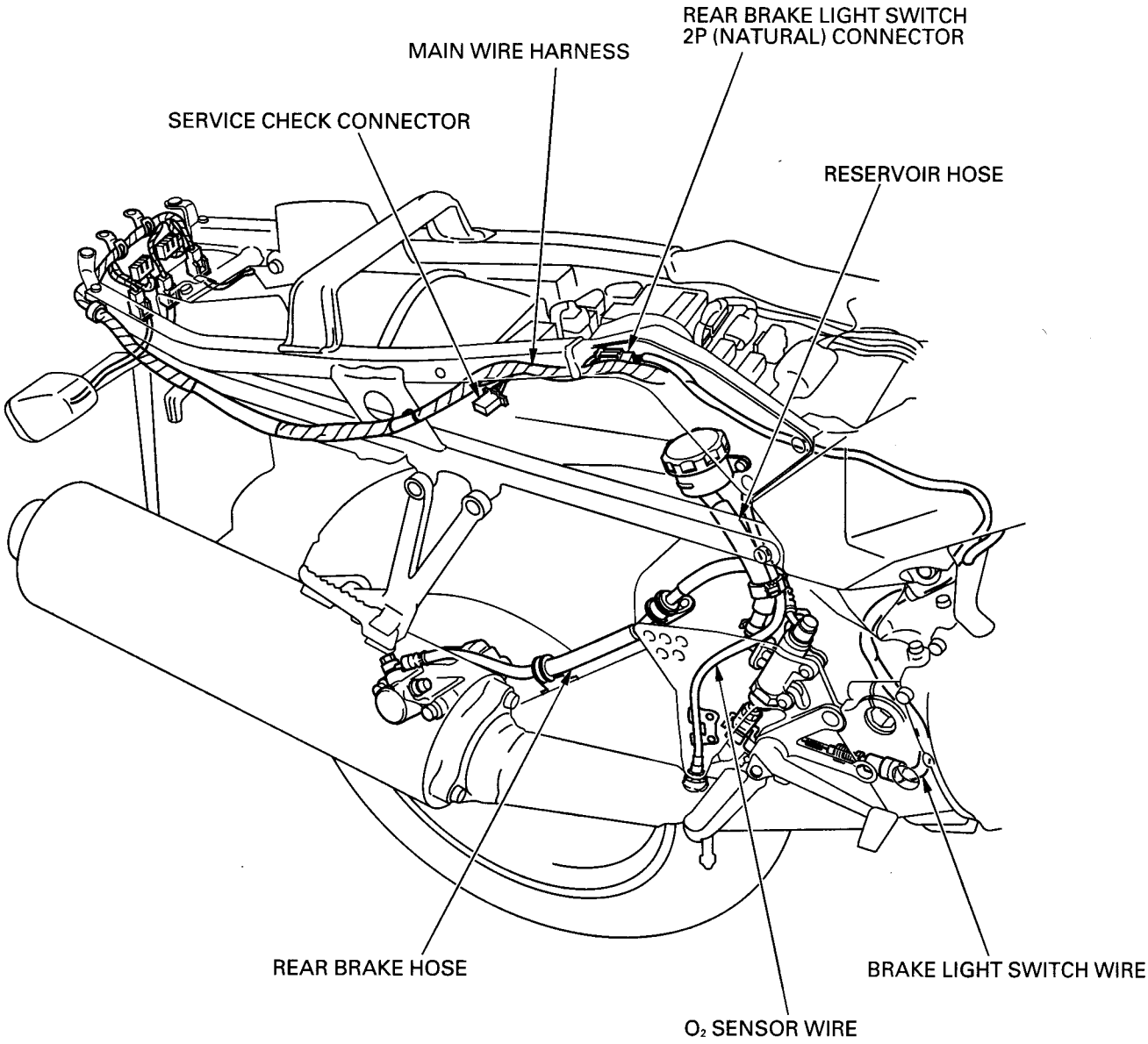
CALIFORNIA TYPE:




IGNITION COIL SUB-HARNESS
PAIR SOLENOID VALVE WIRE
FUEL TANK OVERFLOW TUBE
AIR BLEED TUBE
FUEL TANK AIR VENT TUBE
SIPHON TUBE
REAR BRAKE HOSE
UPPER RADIATOR HOSE
O_2 SENSOR WIRE
CLUTCH WIRE
BRAKE LIGHT SWITCH WIRE
IGNITION PULSE GENERATOR WIRE


FUEL RETURN TUBE
FUEL TANK BREATHER TUBE
FUEL PUMP/RESERVE SENSOR WIRE
FUEL TANK OVERFLOW TUBE
THROTTLE SENSOR
FUEL TUBE
EVAP PURGE CONTROL SOLENOID VALVE
EVAP CANISTER
FUEL PUMP/RESERVE SENSOR 3P (BLACK) CONNECTOR


BRAKE LIGHT SWITCH 2P (NATURAL) CONNECTOR
MAIN WIRE HARNESS
BATTERY NEGATIVE (−) CABLE
SERVICE CHECK CONNECTOR
ECM 22P (LIGHT GRAY) CONNECTOR
PGM-FI FUSE HOLDER
FUEL CUT RELAY
FUSE BOX
BANK ANGLE SENSOR
ENGINE STOP RELAY
ALTERNATOR 3P (WHITE) CONNECTOR
REGULATOR/RECTIFIER 4P (NATURAL) CONNECTOR
ECM 22P (BLACK) CONNECTOR
STARTER RELAY SWITCH
BATTERY POSITIVE (+) CABLE


REAR BRAKE LIGHT SWITCH
2P (NATURAL) CONNECTOR
MAIN WIRE HARNESS
SERVICE CHECK CONNECTOR
RESERVOIR HOSE
REAR BRAKE HOSE
BRAKE LIGHT SWITCH WIRE
O2 SENSOR WIRE

EMISSION CONTROL SYSTEMS

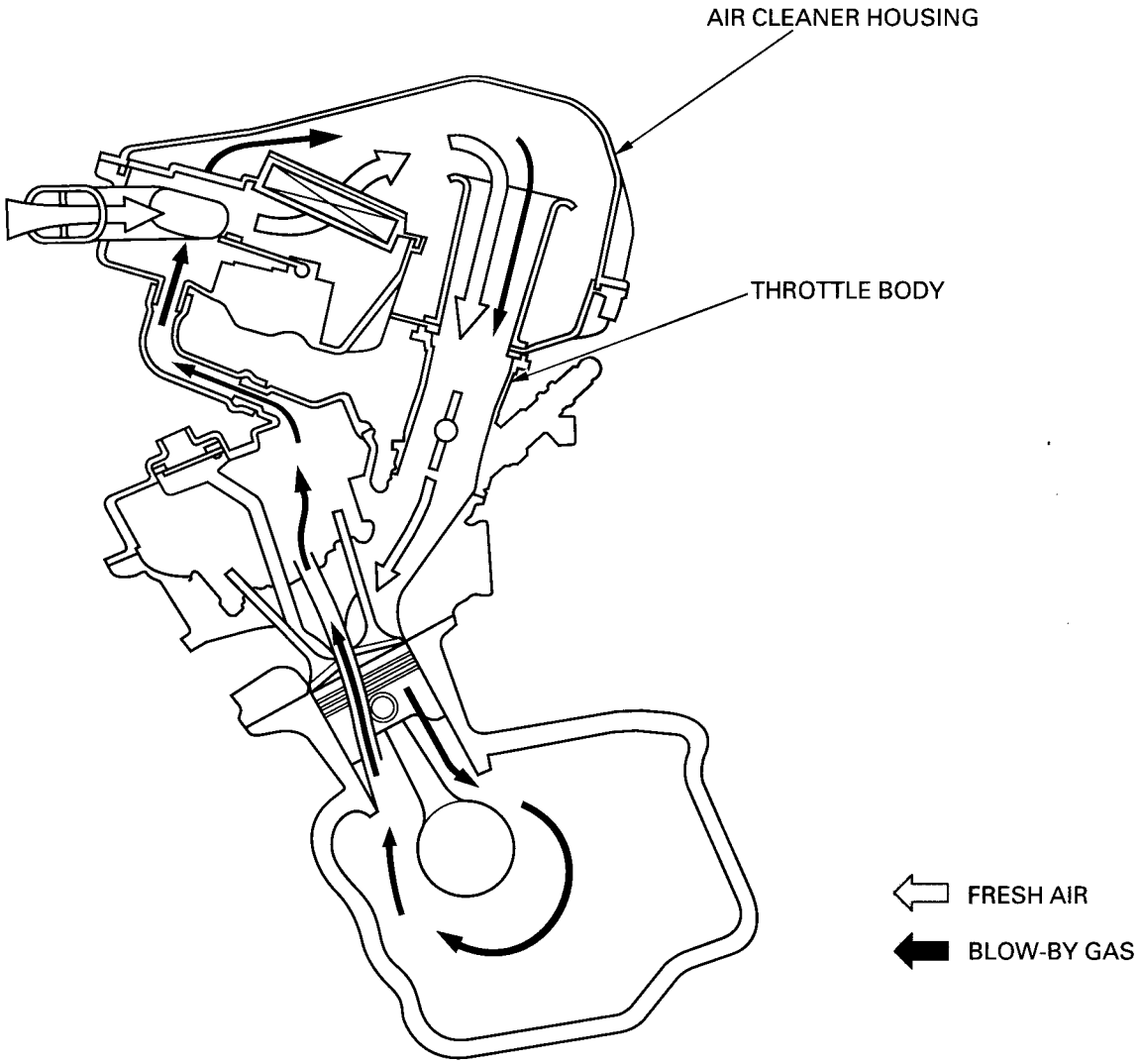
The U.S. Environmental Protection Agency, California Air Resources Board (CARB) and Transport Canada require manufacturers to certify that their motorcycles comply with applicable exhaust emissions standards during their useful life, when operated and maintained according to the instructions provided, and that motorcycles built after January 1, 1983 comply with applicable noise emission standards for one year or 6,000 km (3,730 miles) after the time of sale to the ultimate purchaser, when operated and maintained according to the instructions provided. Compliance with the terms of the Distributor's Limited Warranty for Honda Motorcycles Emission Control System is necessary in order to keep the emissions system warranty in effect.

SOURCE OF EMISSIONS

The combustion process produces carbon monoxide and hydrocarbons. Control of hydrocarbons 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 lean injection settings as well as other systems, to reduce carbon monoxide and hydrocarbons.

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 throttle body.



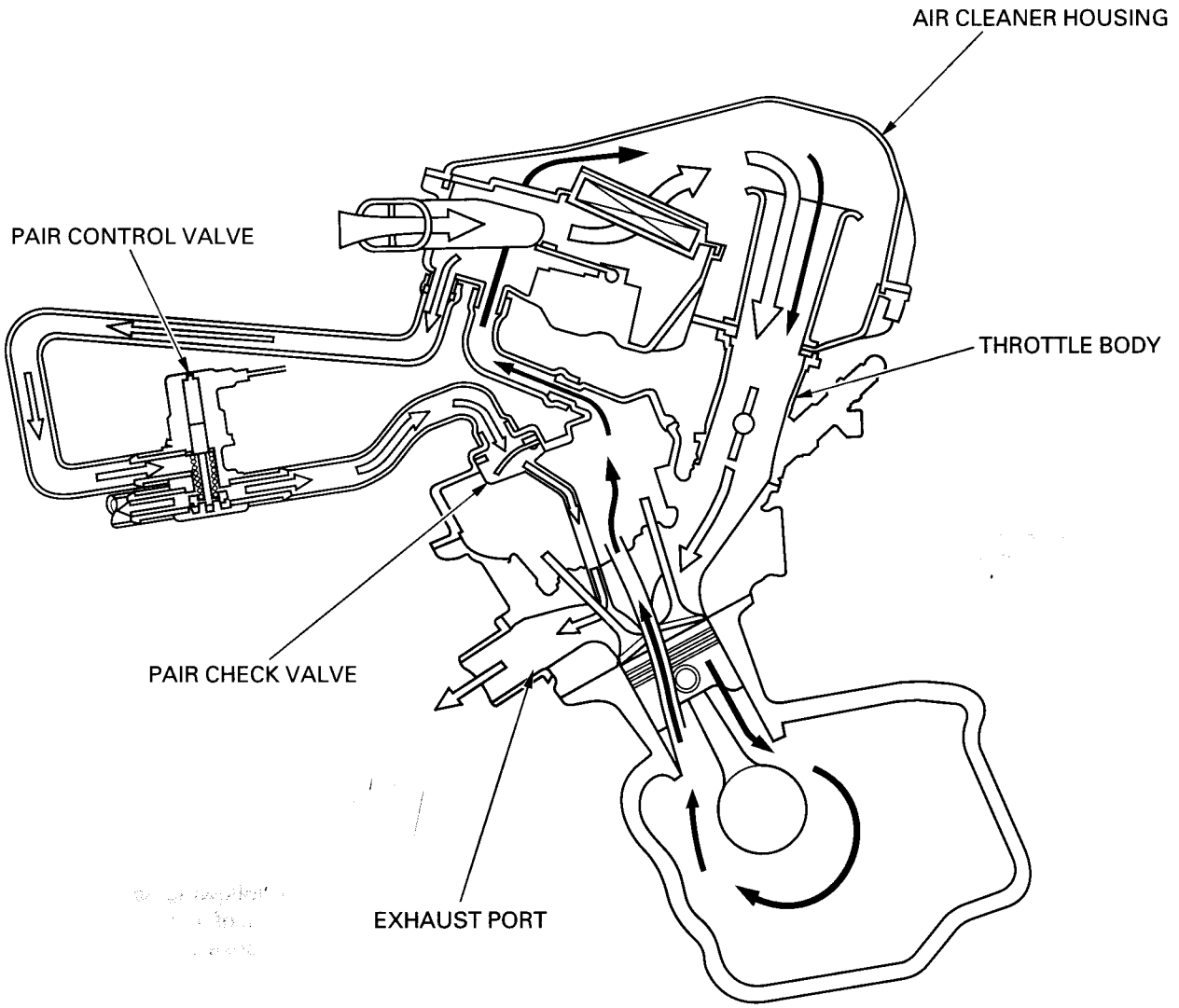
EXHAUST EMISSION CONTROL SYSTEM (SECONDARY AIR SUPPLY SYSTEM)

The exhaust emission control system is composed of a lean fuel injection setting, 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.

The exhaust emission control system consists of a secondary air supply system which introduces filtered air into the exhaust gases in the exhaust port. Fresh air is drawn into the exhaust port by the function of the PAIR (Pulse Secondary Air Injection) control valve.
This charge of fresh air promotes burning of the unburned exhaust gases and changes a considerable amount of hydrocarbons and carbon monoxide into relatively harmless carbon dioxide and water vapor.

The reed valve prevents reverse air flow through the system. The PAIR control valve is operated by the solenoid valve. The solenoid valve is controlled by the PGM-FI unit, and the fresh air passage is opened/closed according the running condition (ECT/IAT/TP/MAP sensor and engine revolution).

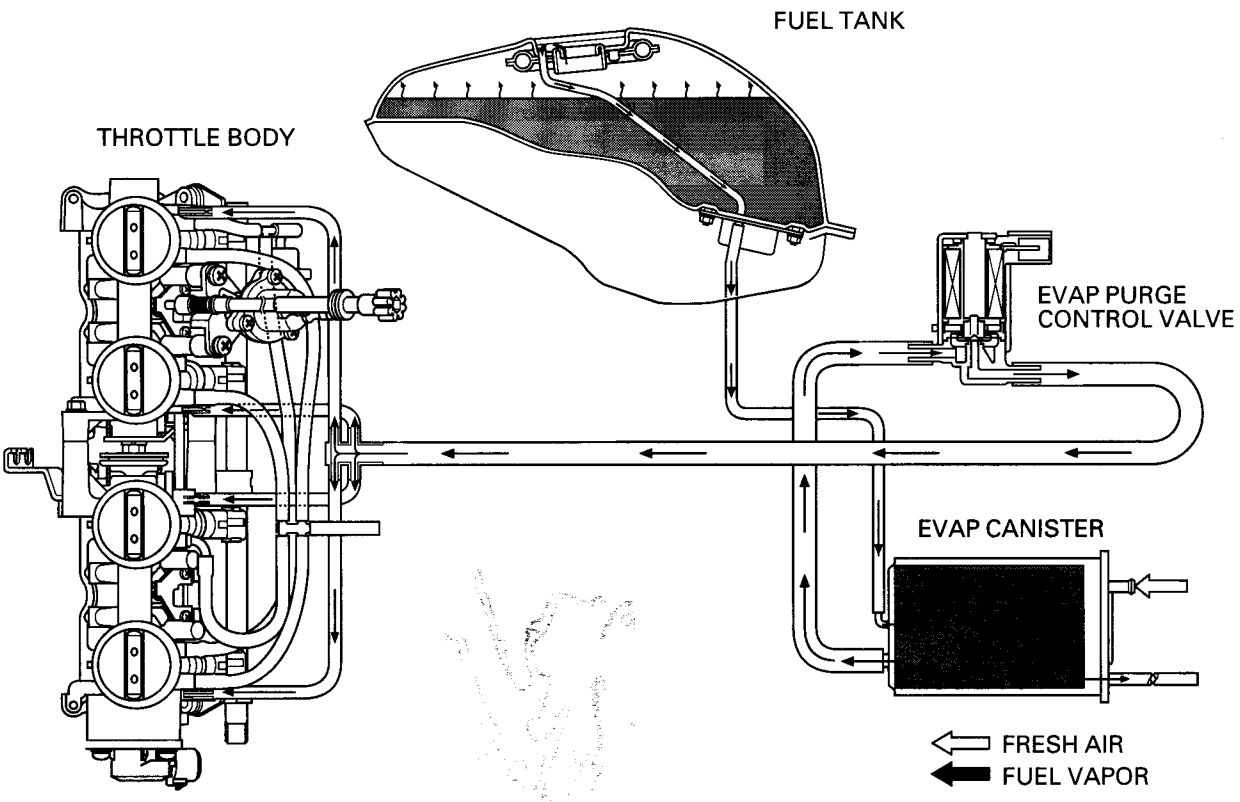
No adjustments to the secondary air supply system should be made, although periodic inspection of the components is recommended.



California type:
The california type also equipped two three-way warm-up catalytic converters, a three-way catalytic converter, and a heated oxygen sensor.
The three-way catalytic converters are in the exhaust system. Through chemical reactions, they convert HC, CO, and NOx in the engine's exhaust to carbon dioxide (CO_2), dinitrogen (N_2), and water vapor.
No adjustment to these systems should be made although periodic inspection of the components is recommended.

EVAPORATIVE EMISSION CONTROL SYSTEM (CALIFORNIA TYPE ONLY)

This model complies with California Air Resources Board evaporative emission requirements.
Fuel vapor from the fuel tank is routed into the evaporative emission (EVAP) canister where it is absorbed and stored while the engine is stopped. When the engine is running and the evaporative emission (EVAP) purge control solenoid valve is open, fuel vapor in the EVAP canister is drawn into the engine through the throttle body.



NOISE EMISSION CONTROL SYSTEM

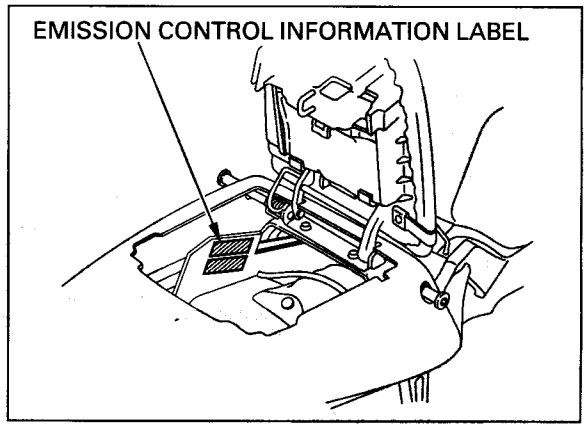
TAMPERING WITH THE NOISE CONTROL SYSTEM IS PROHIBITED: Local law prohibits the following acts or the causing thereof: (1) The removal or rendering inoperative by any person, other than for purposes of maintenance, repair or replacement, of any device or element of design incorporated into any new vehicle 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 ACTS LISTED BELOW:

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 than those specified by the manufacturer.

EMISSION CONTROL INFORMATION LABELS (U. S. A. ONLY)

An Emission Control Information Label is located on the storage compartment as shown.
The seat must be removed to read it.
It gives base tune-up specifications.



VACUUM HOSE ROUTING DIAGRAM LABEL (CALIFORNIA TYPE ONLY)

The Vacuum Hose Routing Diagram Label is on the air cleaner housing cover as shown.
The fuel tank must be opened to read it. Refer to page 3-4 for fuel tank opening.