

1. GENERAL INFORMATION

Product: Honda CBR929RR Motorcycle Service Repair Workshop Manual
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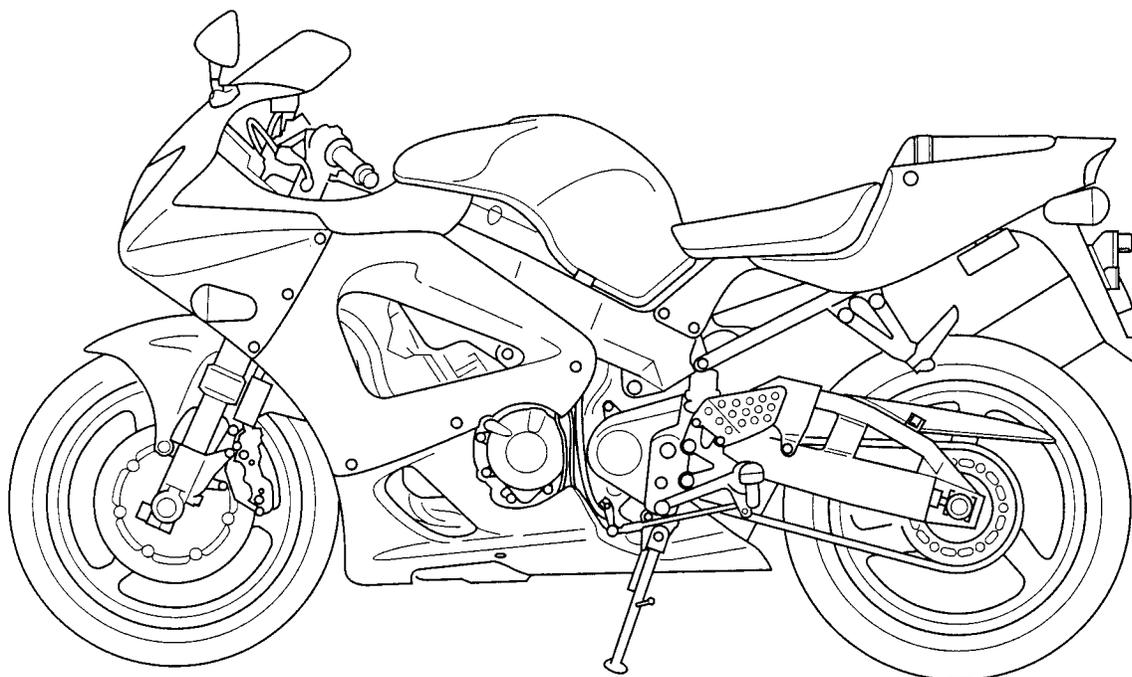
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1

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



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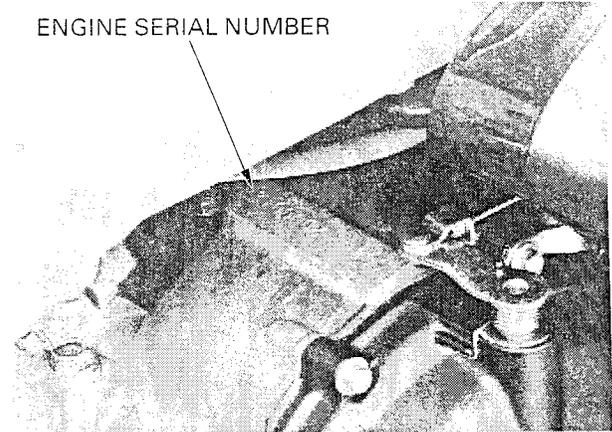
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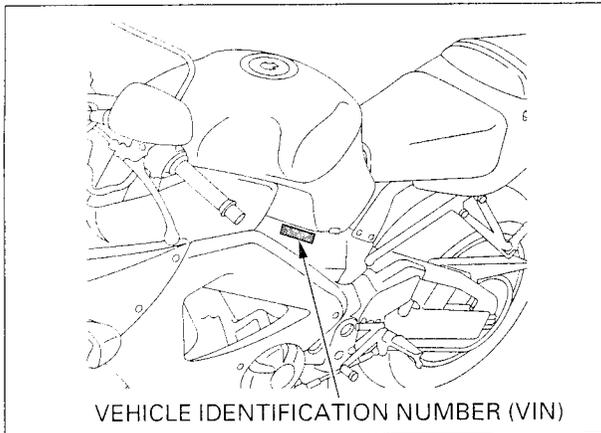
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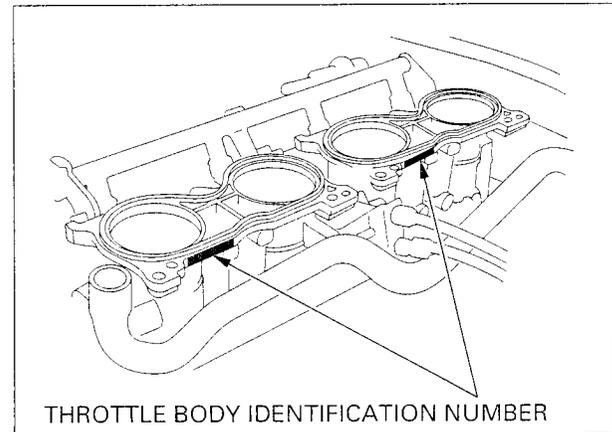
- (1) The frame serial number is stamped on the right side of the steering head.



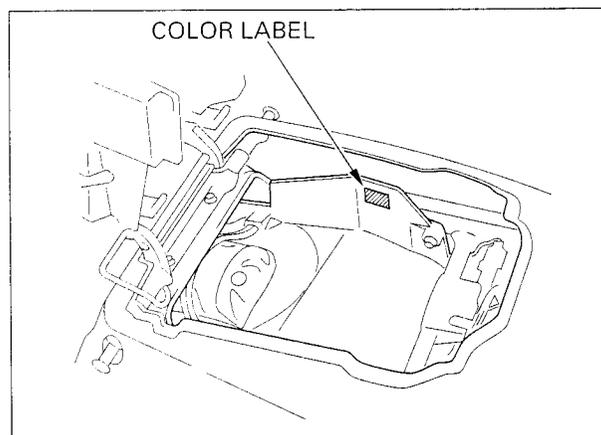
- (2) The engine serial number is stamped on the right side of the upper crankcase.



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



- (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.

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SPECIFICATIONS

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

GENERAL INFORMATION

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

Unit: mm (in)

LUBRICATION SYSTEM		STANDARD	SERVICE LIMIT
ITEM			
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/cm ² , 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)		SPECIFICATIONS
ITEM		
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/cm ² , 50 psi)
Fuel pump flow (at 12 V)		188 cm ³ (6.4 US oz, 6.6 Imp oz) minimum/10 seconds

GENERAL INFORMATION

COOLING SYSTEM		SPECIFICATIONS
ITEM		
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/cm ² , 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/cm ² , 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)

GENERAL INFORMATION

Unit: mm (in)

CLUTCH/GEARSHIFT LINKAGE

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)
		Claw thickness	5.93 – 6.00 (0.233 – 0.236)
	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)
	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)
	Piston pin O.D.		16.994 – 17.000 (0.6691 – 0.6693)
	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)
		Second	0.015 – 0.045 (0.0006 – 0.0018)
	Piston ring end gap	Top	0.28 – 0.38 (0.011 – 0.015)
		Second	0.40 – 0.55 (0.016 – 0.022)
	Oil (side rail)	0.2 – 0.7 (0.01 – 0.03)	
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)	
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)	

GENERAL INFORMATION

Unit: mm (in)

CRANKSHAFT/TRANSMISSION			STANDARD	SERVICE LIMIT
ITEM				
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)

GENERAL INFORMATION

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/cm ² , 36 psi)	—————
	Up to maximum weight capacity	250 kPa (2.50 kgf/cm ² , 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 cm ³ (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/cm ² , 42 psi)	—————
	Up to maximum weight capacity	290 kPa (2.90 kgf/cm ² , 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	—————

GENERAL INFORMATION

Unit: mm (in)

HYDRAULIC BRAKE		STANDARD	SERVICE LIMIT	
ITEM				
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		SPECIFICATIONS	
ITEM			
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		SPECIFICATIONS
ITEM		
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

Unit: mm (in)

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

LIGHTS/METERS/SWITCHES			SPECIFICATIONS
ITEM			
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)

GENERAL INFORMATION

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 surface (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)	

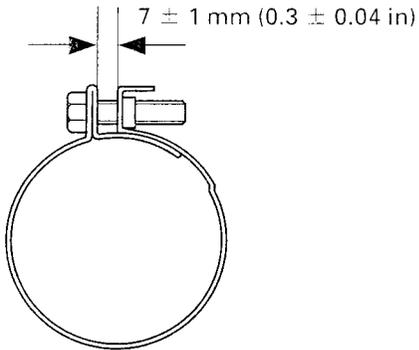
ENGINE (Cont'd)				
ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N-m (kgf-m, lbf-ft)	REMARKS
CYLINDER HEAD/VALVES:				
Cylinder head cover bolt	4	6	10 (1.0 , 7)	
PAIR reed valve cover flange bolt	4	6	12 (1.2 , 9)	NOTE 2
Breather plate flange bolt	3	6	12 (1.2 , 9)	NOTE 2
Camshaft holder flange bolt	10	6	12 (1.2 , 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

GENERAL INFORMATION

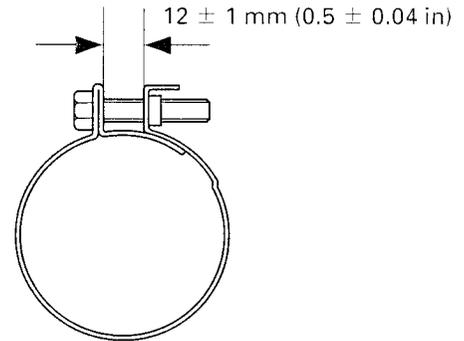
ENGINE (Cont'd)

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)	

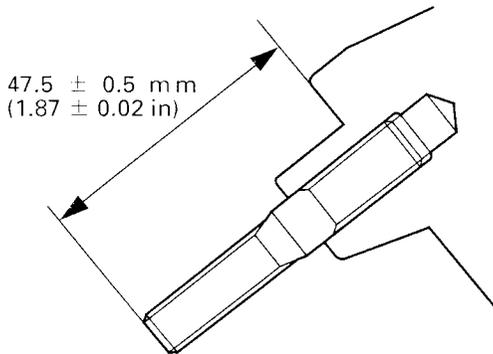
Insulator clamp (Throttle body side):

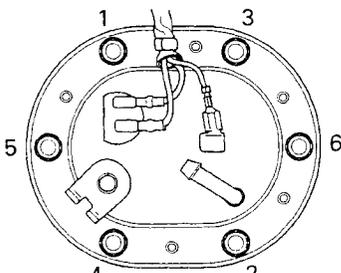


Insulator clamp (Cylinder head side):



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)	NOTE 7	
	Pillion seat mounting nut	2	6	10 (1.05 , 8)		
	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	
	Lower bracket mounting pinch bolt	1	8	26 (2.7 , 20)	NOTE 7	
	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)		

GENERAL INFORMATION

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

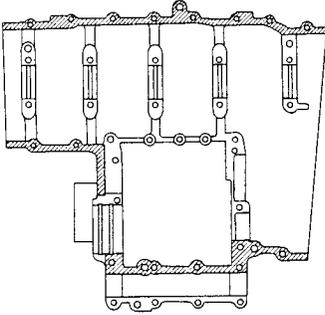
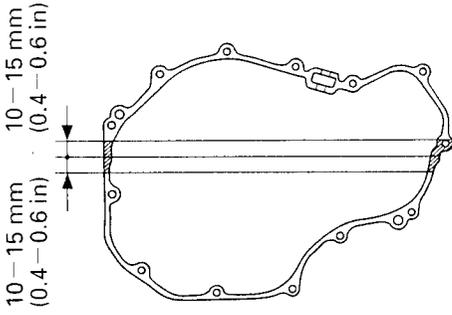
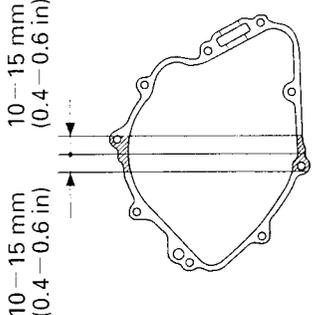
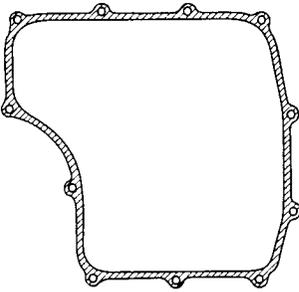
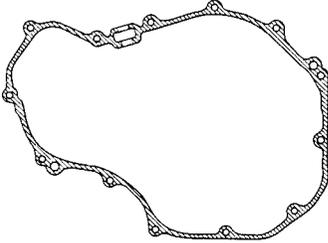
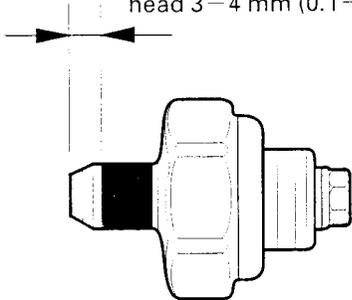
- NOTES: 1. Equivalent commercially available in U.S.A.
 2. Not available in U.S.A.
 3. Alternative tool.
 4. Newly provided tool.
 5. Newly designed tool.

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

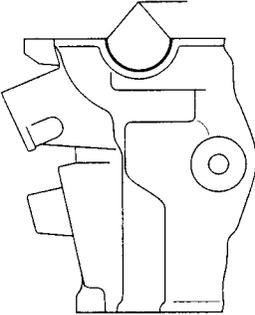
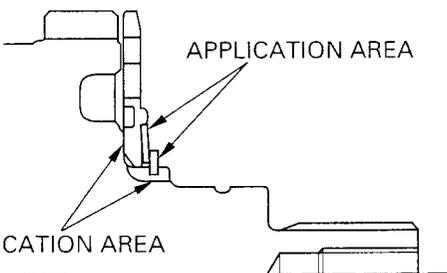
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DESCRIPTION	TOOL NUMBER	REMARKS	REF. SEC.
Tappet hole protector	07HMG-MR70002	NOTE 2	8
Valve guide driver	07HMD-ML00101		8
Valve guide driver, 4.508 mm	07HMH-ML00101	NOTE 3: 07HMH-ML0010A (U.S.A. only)	8
Drive chain tool set	07HMH-MR10103	NOTE 3: 07HMH-MR1010B (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		
	<p data-bbox="386 1587 776 1646">Do not apply sealant to the thread head 3-4 mm (0.1-0.2 in).</p> 		

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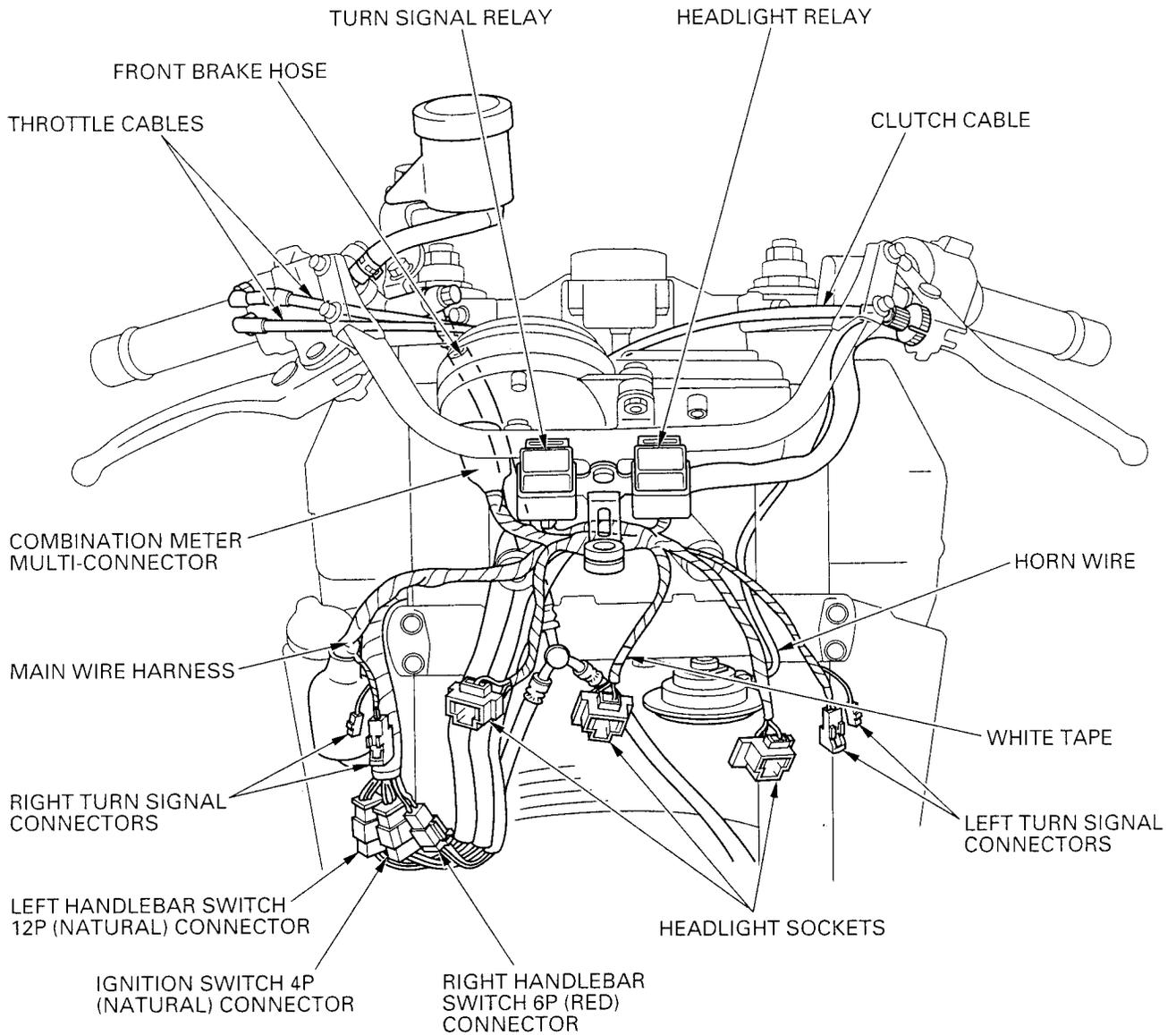
ENGINE (Cont'd) LOCATION	MATERIAL	REMARKS
<p>Cylinder head semi-circular cut-out</p> 	Sealant	
<p>Main journal bearing surface Piston pin sliding surface Connecting rod bearing surface Connecting rod small end inner surface Crankshaft thrust surface Camshaft lobes/journals and thrust surface Valve stem (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</p> 	Molybdenum disulfide oil (a mixture of 1/2 engine oil and 1/2 molybdenum disulfide grease)	
<p>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</p>	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

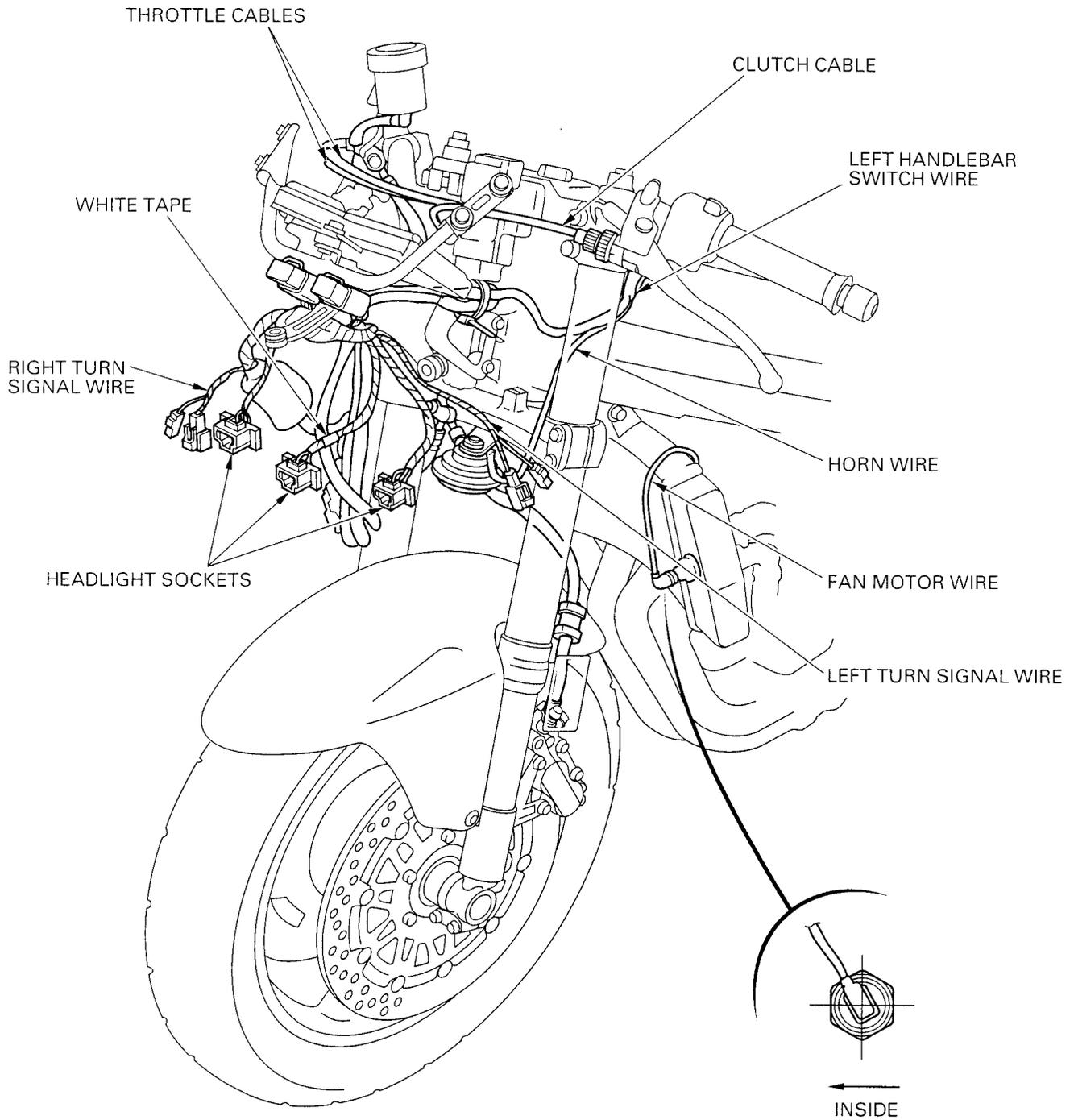
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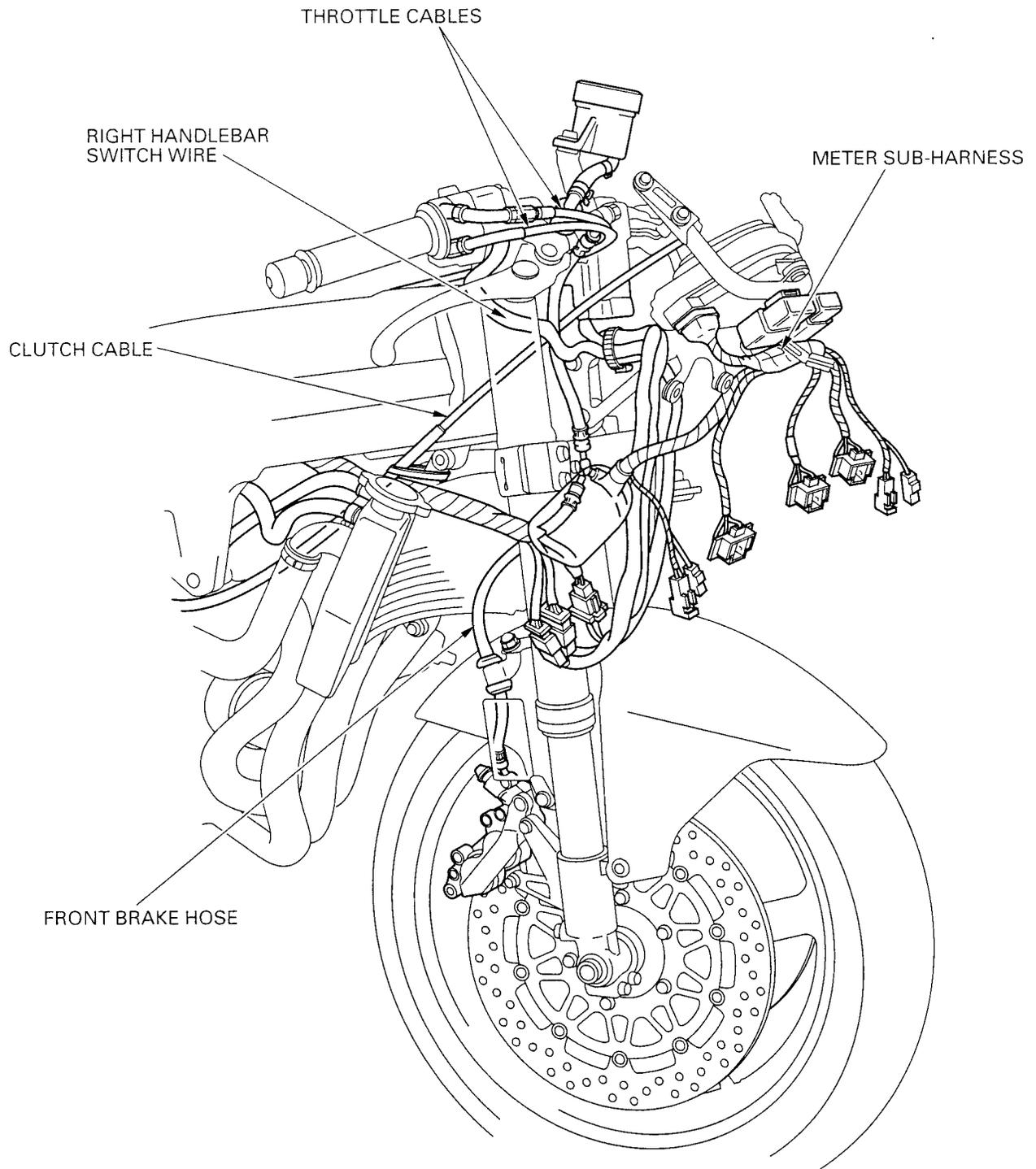
FRAME	LOCATION	MATERIAL	REMARKS
	Front wheel dust seal lips Rear wheel dust seal lips Footpeg sliding area Pillion footpeg sliding area Rear brake pedal pivot sliding area Gearshift pedal pivot sliding area Clutch lever pivot bolt sliding area Throttle pipe sliding area Pillion seat pivot sliding area 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

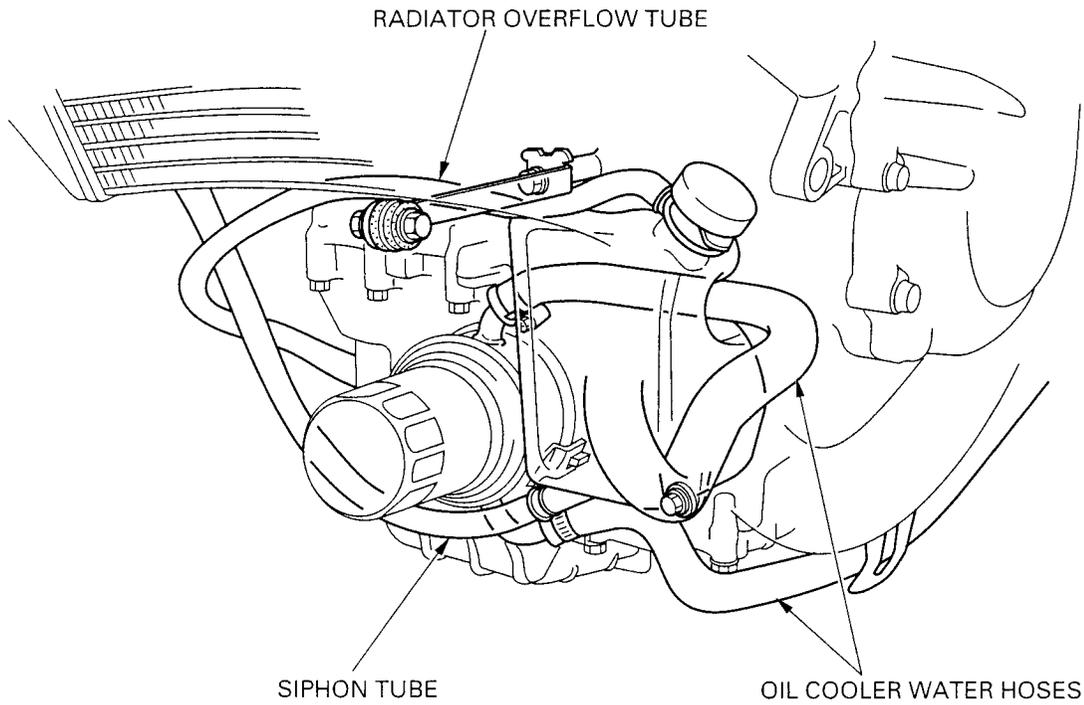
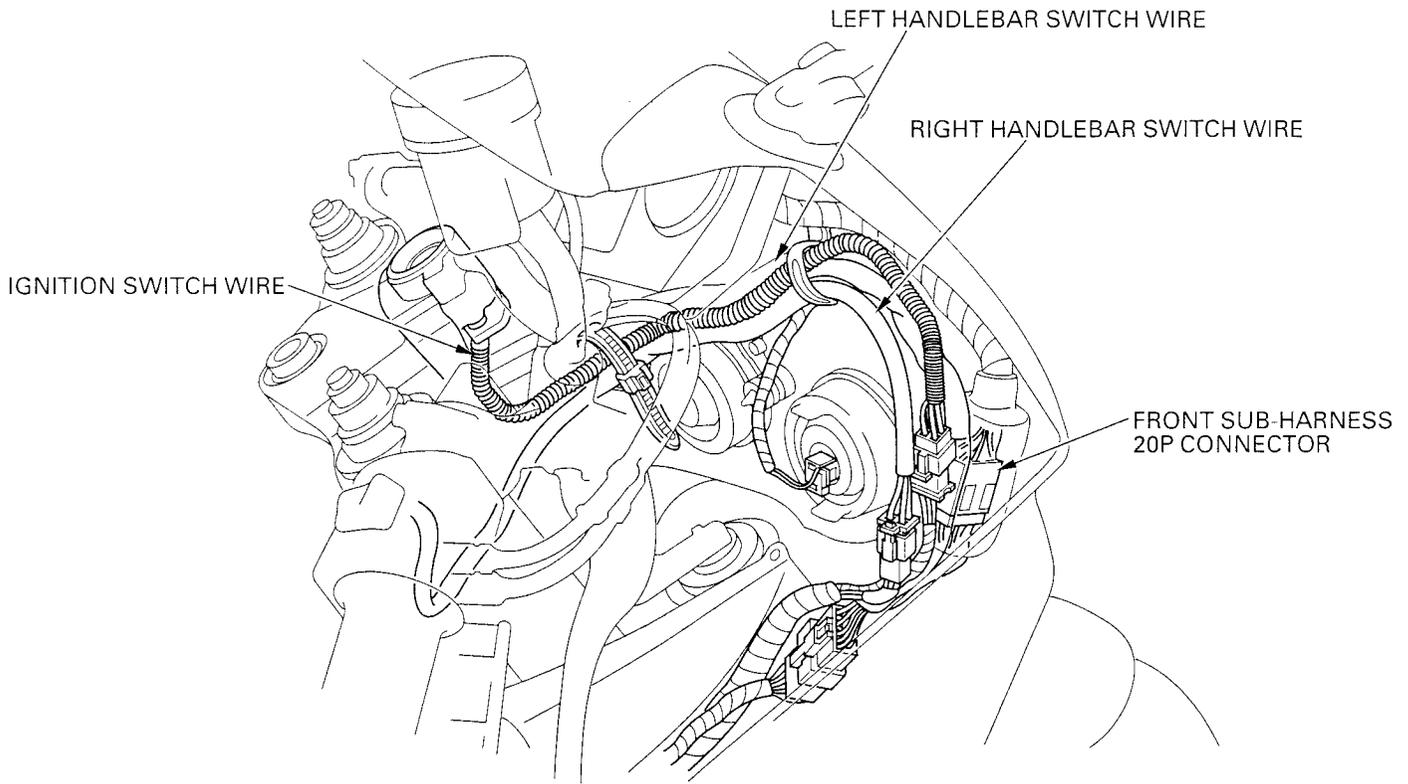


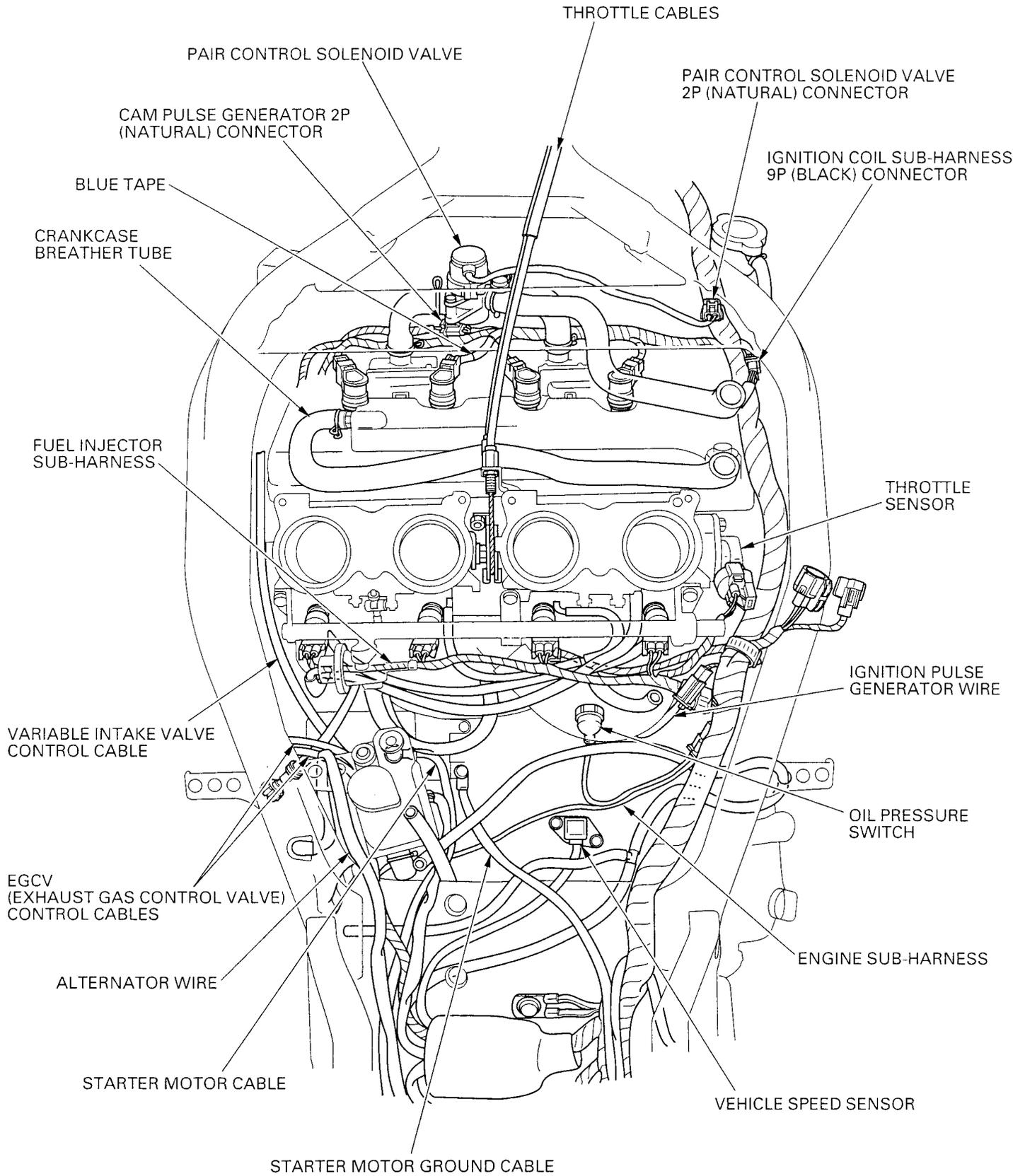
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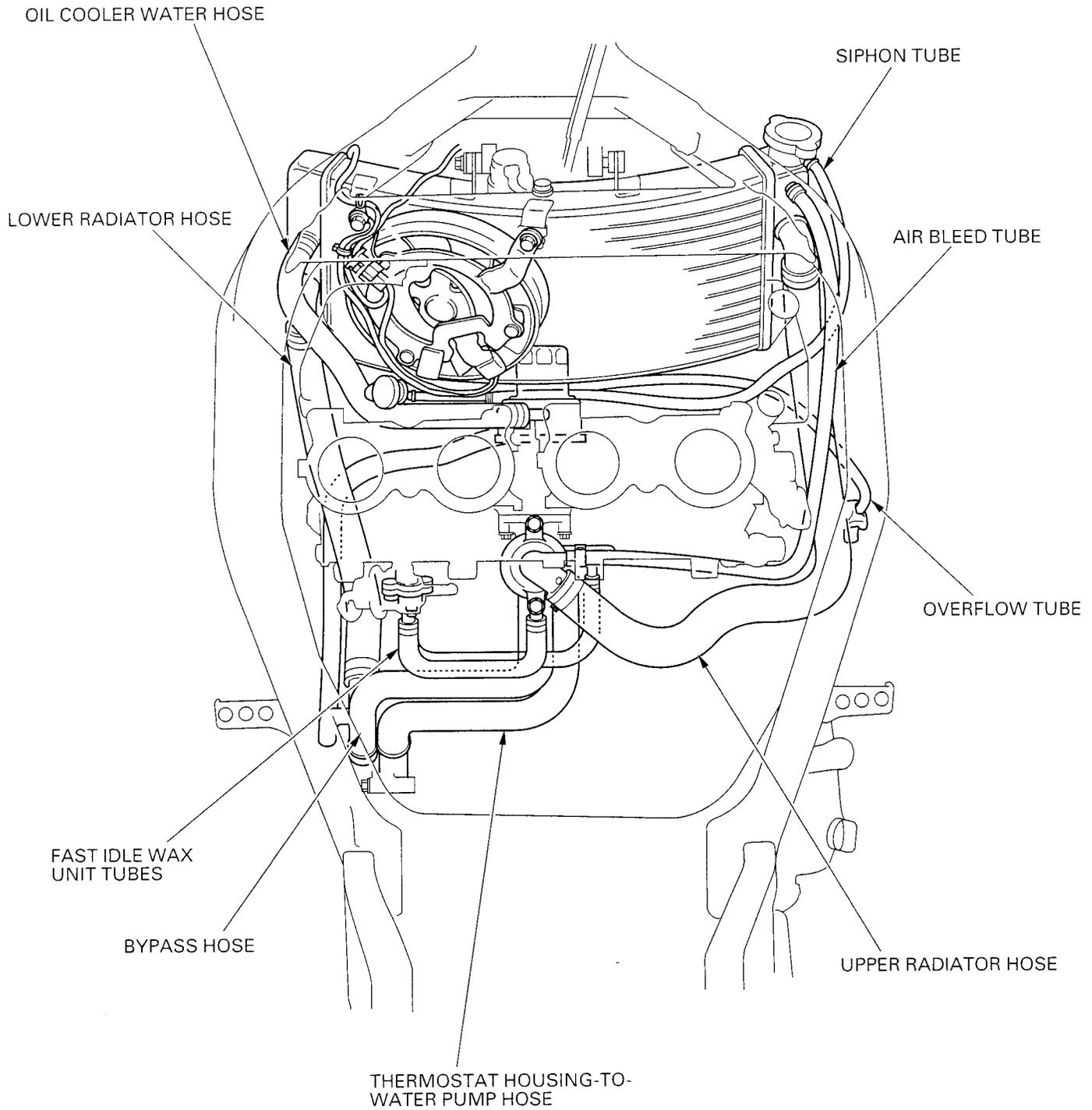


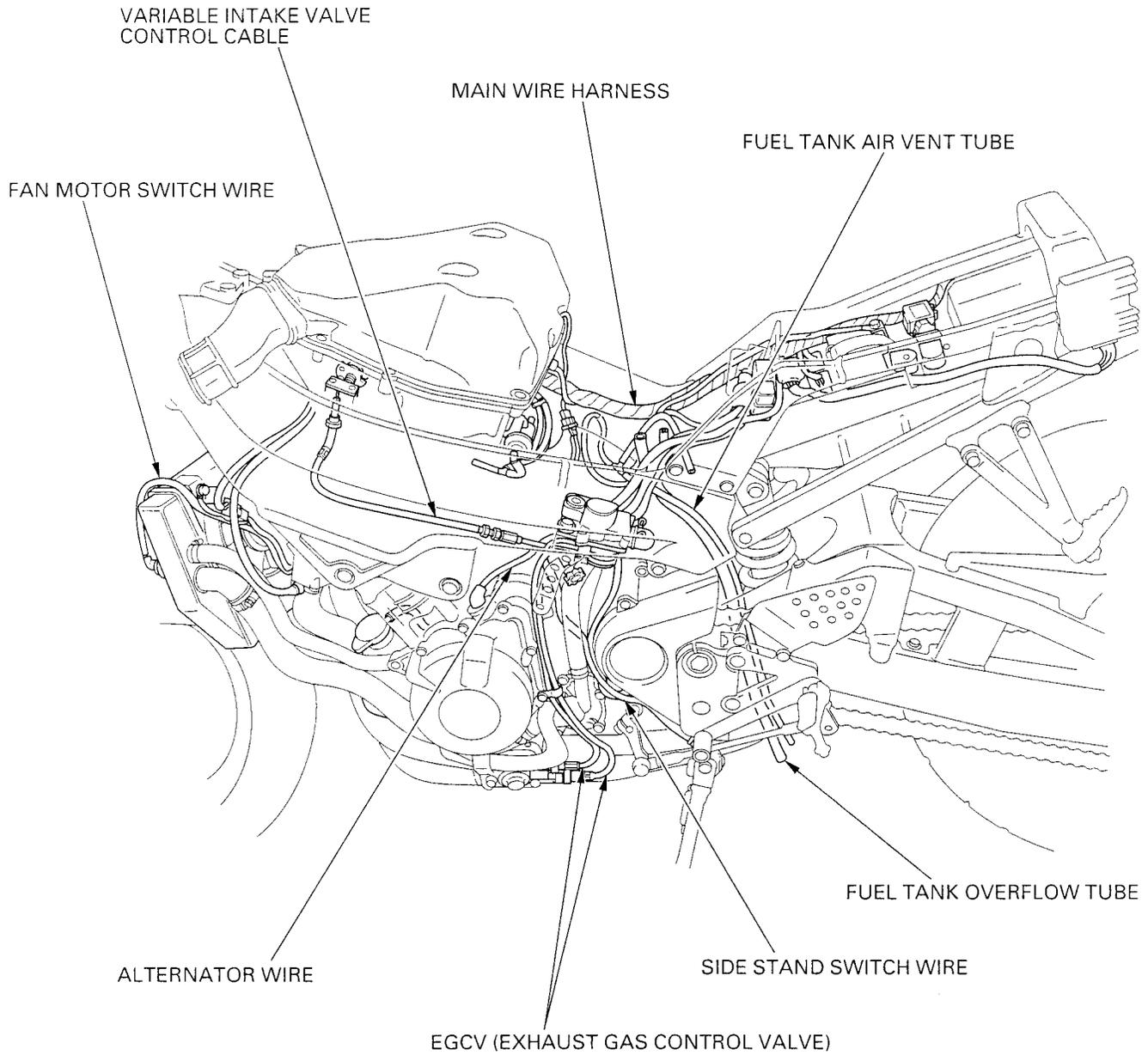
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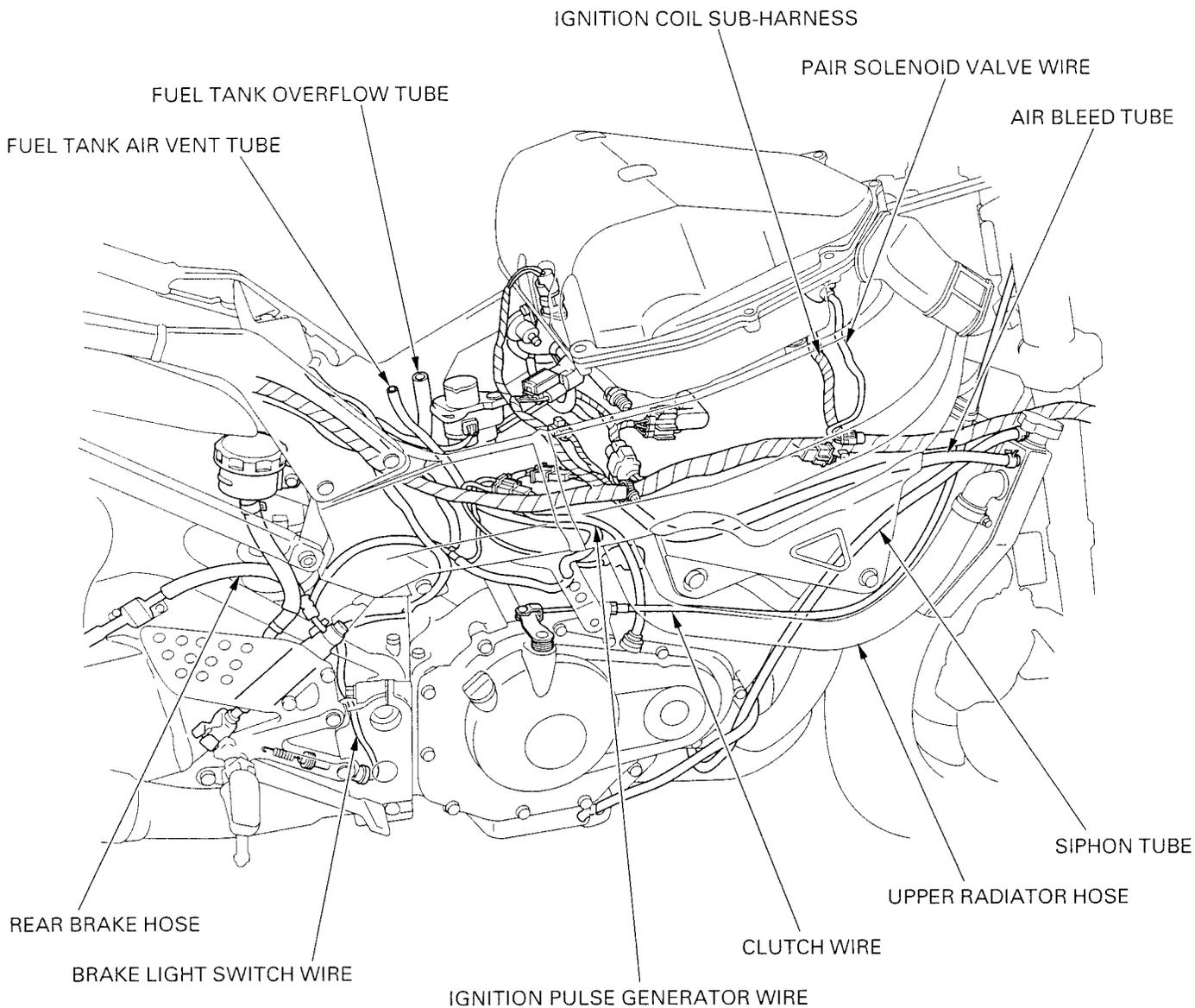
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