



HOW TO USE THIS MANUAL

Follow the Maintenance Schedule recommendations to ensure that the vehicle is in peak operating condition and the emission levels are within the standards set by the U.S. Environmental Protection Agency. Performing the first scheduled maintenance is very important. It compensates for the initial wear that occurs during the break-in period.

Sections 1 through 3 apply to the whole motorcycle, while sections 4 through 21 describe parts of the motorcycle, grouped according to location.

Find the section you want on this page, then turn to the table of contents on page 1 of that section.

Most sections start with an assembly or system illustration, service information and troubleshooting for the section. The subsequent pages give detailed procedures.

If you are not familiar with this motorcycle, read the TECHNICAL FEATURES in section 22.

If you don't know the source of the trouble, go to section 23, TROUBLESHOOTING.

Service information for 1981 and later models is in the Addendums beginning with Section 24.

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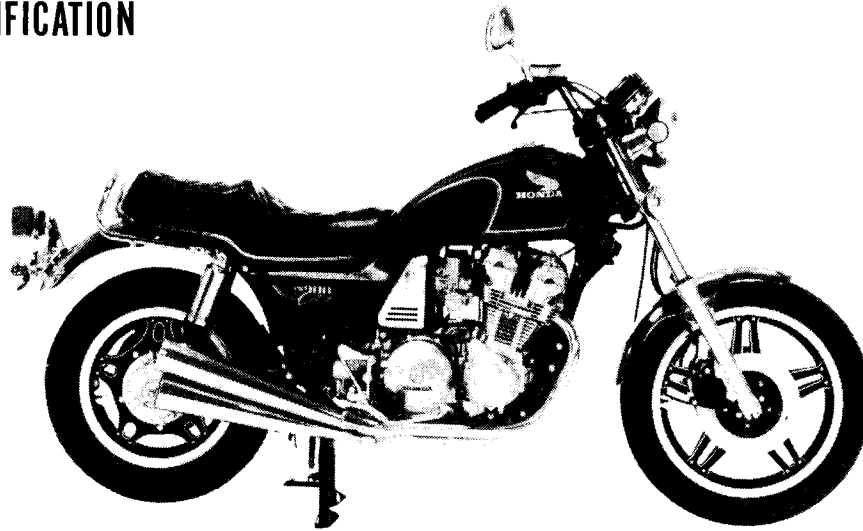
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SERVICE PUBLICATIONS OFFICE

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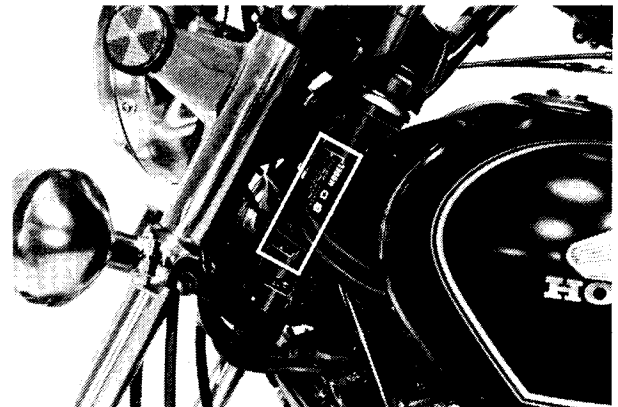
MODEL IDENTIFICATION



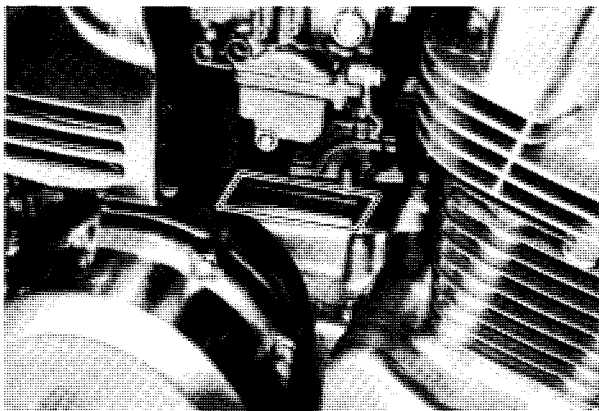
BEGINNING WITH F No. SC04-2000046
F No. SC04-2001669 [CANADA model]



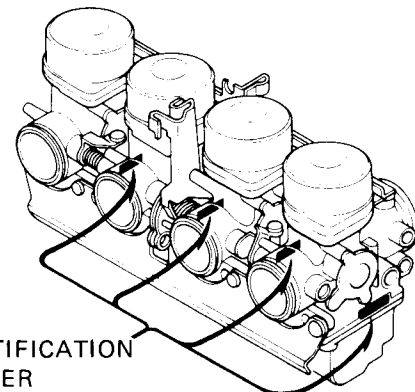
The frame serial number is stamped on the steering head right side.



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



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



IDENTIFICATION
NUMBER

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



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GENERAL SAFETY

WARNING

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

WARNING

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

WARNING

The battery electrolyte contains sulfuric acid. Protect your eyes, skin and clothing. In case of contact, flush thoroughly with water and call a doctor if your eyes were exposed.

WARNING

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

SERVICE RULES

1. Use genuine HONDA or HONDA-recommended parts and lubricants or their equivalent. Parts that do not meet HONDA's design specifications may damage the motorcycle.
2. Use the special tools designed for this product.
3. Use only metric tools when servicing this motorcycle. Metric bolts, nuts, and screws are not interchangeable with English fasteners. The use of incorrect tools and fasteners may damage the motorcycle.
4. Install new gaskets, O-rings, cotter pins, lock plates, etc. when reassembling.
5. When tightening bolts or nuts, begin with larger-diameter or inner bolts first, and tighten to the specified torque diagonally, 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.

**SPECIFICATIONS**

★ When a genuine Honda fairing is installed.

ITEM			
DIMENSIONS	Overall length	2,310 mm (90.9 in)	
	Overall width	915 mm (36.0 in)	
	Overall height	1,170 mm (46.1 in)	
	Wheelbase	1,580 mm (62.2 in)	
	Seat height	780 mm (30.7 in)	
	Foot peg height	330 mm (13.0 in)	
	Ground clearance	150 mm (5.9 in)	
	Dry weight	259 kg (571 lb)	
Curb weight	277 kg (611 lb)		
FRAME	Type	Double cradle	
	Front suspension, travel	Telescopic fork 160 mm (6.3 in)	
	Rear suspension, travel	Swing arm/Shock absorber, 101 mm (4.0 in)	
	Gross vehicle weight rating	485 kg (1,070 lb)	
	Vehicle capacity load	208 kg (460 lb)	
	Front tire size	110/90-19-62H Universal pattern	
	Rear tire size	130/90-16-67H Universal pattern	
	Cold tire pressures	Up to 90 kg (200 lbs) load	Front 2.25 kg/cm ² (32 psi) ★ 2.8 (40 psi) Rear 2.25 kg/cm ² (32 psi)
		Up to vehicle capacity load	Front 2.25 kg/cm ² (32 psi) ★ 2.8 (40 psi) Rear 2.8 kg/cm ² (40 psi)
	Front brake, lining swept area	Double disc brake 1200 cm ² (186.0 sq in)	
Rear brake, lining swept area	Single disc brake 653 cm ² (101.2 sq in)		
Fuel capacity	16.5 liters (4.4 US gal, 3.6 Imp gal)		
Fuel reserve capacity	4.5 liters (1.2 US gal, 1.0 Imp gal)		
Caster angle	29°		
Trail	124 mm (4.9 in)		
Front fork oil capacity	280 ± 2.5 cc (9.5 ± 0.008 ozs)		
ENGINE	Type	Air cooled 4-stroke	
	Cylinder arrangement	Vertical in-line four	
	Bore and stroke	64.5 x 69.0 mm (2.54 x 2.72 in)	
	Displacement	902 cm ³ (55.0 cu in)	
	Compression ratio	8.8 : 1	
	Valve train	Chain driven DOHC 4 Valves per cylinder	
	Maximum horsepower	84 BHP/8,500 rpm	
	Maximum torque	7.8 kg-m (56.4 ft-lb)/7,000 rpm	
	Oil capacity	4.5 liters (4.8 US qt, 4.0 Imp qt) after disassembly	
		3.5 liters (3.7 US qt, 3.0 Imp qt) after draining	
	Lubrication system	Wet sump	
	Air filtration	Paper	
	Cylinder compression	12.0 ± 2.0 kg/cm ² (170 ± 28 psi)	
	Intake valve	Opens	10° (BTDC) at 1 mm lift, 63° (BTDC) at 0 lift
		Closes	35° (ABDC) at 1 mm lift, 98° (ABDC) at 0 lift
	Exhaust valve	Opens	40° (BBDC) at 1 mm lift, 70° (BBDC) at 0 lift
		Closes	5° (ATDC) at 1 mm lift, 93° (ATDC) at 0 lift
Valve clearance (Cold)	IN:	} 0.06–0.13 mm (0.002–0.005 in)	
	EX:		
Engine weight	106 kg (234 lb)		
Idle speed	1,000 ± 100 rpm		



[] CANADA model

ITEM					
CARBURETION	Carburetor type	VB, 32 mm (1.26 in) venturi bore			
	Identification number	VB43A [VB43B]			
DRIVE TRAIN	Pilot screw initial setting	See page 4-17			
	Float level	15.5 mm (0.61 in)			
	Clutch	Wet, multi-plate			
	Transmission	5-speed constant-mesh with dual range subtransmission			
	Primary reduction	1.000 (28/28)/2.041 (49/24)			
	Final reduction	3.091 (34/11)			
	Secondary reduction (subtransmission)				
	I (High range)	0.638 (30/47)			
	II (Low range)	0.721 (31/43)			
	Third reduction	1.200 (18/15)			
	Gear ratio I	2.375 (38/16)			
	Gear ratio II	1.789 (34/19)			
	Gear ratio III	1.391 (32/23)			
	Gear ratio IV	1.160 (29/25)			
Gear ratio V	0.964 (27/28)				
Gear shift pattern	Left foot operated return system, 1-N-2-3-4-5				
Subtransmission gear oil capacity	0.60 liters (0.61 US qt, 0.53 Imp qt)				
Final drive gear oil capacity	0.15 liters (0.16 US qt, 0.13 Imp qt)				
ELECTRICAL	Ignition	Transistorized			
	Ignition timing "F-I" mark	10° BTDC at idle			
	Full advance	38.5° BTDC at 3,200 rpm			
	Starting system	Starting motor			
	Generator	Three phase A.C. generator 266 W/5,000 rpm			
	Battery capacity	12 V-14 AH			
	Spark plug				
	() : Canada model				
		For cold climate below 5°C (41°F)		Standard	
		NGK	ND	NGK	ND
	D8EA [DR8ES-L]	X24ES-U [X24ESR-U]	D9EA [DR8ES]	X27ES-U [X27ESR-U]	
Spark plug gap	0.6-0.7 mm (0.024-0.028 in)				
Firing order	1-2-4-3				
Fuse/Main fuse	10 A/30 A				
LIGHTS	Headlight (high/low beam)	60/55 W H4 BULB (Phillips12342/99 or equivalent)			
	Tail/stoplight	8/27 W	3/32 cp	SAE NO. 1157	
	Front turn signal/running light	23/8 W	32/3 cp	SAE NO. 1034	
	Rear turn signal	23 W	32 cp	SAE NO. 1073	
	Speedometer light	3.4 W	2 cp	SAE NO. 57	
	Tachometer light	3.4 W	2 cp	SAE NO. 57	
	Neutral indicator	3.4 W	2 cp	SAE NO. 57	
	Turn signal indicator	3.4 W	2 cp	SAE NO. 57	
	High beam indicator	3.4 W	2 cp	SAE NO. 57	
	Rear suspension air pressure warning light	3.4 W	2 cp	SAE NO. 57	



TORQUE VALUES

• ENGINE

Item	Q'ty	Thread Dia (mm)	Torque kg-m (ft-lb)	Remarks
Cylinder head cover	8	6	0.8- 1.2 (6- 9)	Apply molybdenum di-sulfide grease to threads and underside of nuts
Cam holder	24	6	1.2- 1.6 (9-12)	
Cylinder head	12	10	3.6- 4.0 (26-29)	
Cam sprocket	4	7	2.2- 2.6 (16-19)	
Spark plug	4		1.2- 1.9 (9-14)	Apply molybdenum di-sulfide grease to threads and underside of nuts
Crankcase		8	2.1- 2.5 (15-18)	
A.C. generator	1	12	8.0-10.0 (58-72)	
Primary shaft	1	12	8.0-10.0 (58-72)	
Main shaft	1	16	3.8- 4.2 (28-30)	
Connecting rod nut	8		3.2 (23)	
Oil Filter center bolt	1		2.8- 3.2 (20-23)	Apply liquid sealant
Oil pressure switch	1		1.5- 2.0 (11-14)	
Neutral switch	1		1.6- 2.0 (12-14)	
Oil drain plug	1	14	3.5- 4.0 (25-29)	
Oil pipe	2	10	2.1- 2.5 (15-18)	
Spark advancer	1	8	3.3- 3.7 (24-27)	Apply LOCTITE® 271 to the threads
Starting clutch	3	8	2.6- 3.0 (19-22)	
Subtransmission	9	8	3.0- 3.4 (22-25)	
Oil level check bolt	1	12	2.0- 2.5 (14-18)	NEW
Oil drain bolt	1	8	1.6- 2.0 (12-14)	NEW

• CHASSIS

Item	Q'ty	Thread Dia (mm)	Torque kg-m (ft-lb)	Remarks
Steering stem nut	1	24	8.0-12.0 (58-87)	Apply oil to threads and tighten to 2.0 (14) when installing a genuine Honda fairing.
Steering top thread	1	26	1.4- 1.6 (10-12)	
Handlebar holder	4	8	1.8- 2.5 (13-18)	
Front fork top bridge	2	7	0.9- 1.3 (7- 9)	
Front fork bolt	2	31	1.5- 3.0 (11-22)	
Steering stem	2	10	4.5- 5.5 (33-40)	
Front axle holder	4	10	3.0- 4.0 (22-29)	
Front axle nut	1	12	5.5- 6.5 (40-47)	
Front fork socket bolt	2	8	1.5- 2.5 (11-18)	
Front fork drain bolt	2	6	0.6- 0.9 (4.3-7)	
Front fork hose joint (R)	1	10	1.5- 2.0 (11-14)	
Front fork hose joint (L)	1	8	0.4- 0.7 (2.9-5.1)	



Item	Q'ty	Thread Dia (mm)	Torque kg-m (ft-lb)	Remarks
Front fork hose connector	1	8	0.4- 0.7 (2.9-5.1)	UBS
Front fork air valve	1	8	0.4- 0.7 (2.9-5.1)	
Front/rear brake disc	5	8	2.7- 3.3 (20-24)	
Brake caliper carrier	2	10	3.0- 4.0 (22-29)	
Rear axle nut	1	18	8.0-10.0 (58-72)	
Rear axle holding bolt	1	8	2.4- 2.9 (17-21)	
Rear brake pedal holder	2	10	3.5- 4.5 (25-33)	
Rear brake pedal	1	8	1.8- 2.5 (13-18)	
Rear brake torque link	1	8	1.9- 2.3 (14-17)	
Rear shock absorber	3	10	3.0- 4.0 (22-29)	
Rear shock absorber pin bolt	1	14	4.0- 5.0 (29-36)	
Engine hanger bolt	5	10	3.5- 4.5 (25-33)	
Rear shock absorber rod lock nut	2	11	3.5- 6.0 (25-43)	
Rear shock absorber air valve (3-way joint)	1	8	0.4- 0.7 (2.9-5.1)	
Rear shock absorber hose connector (3-way joint)	2	8	0.8- 1.2 (5.8-9)	
Rear shock absorber hose joint	2	8	0.4- 0.7 (2.9-5.1)	
Rear shock absorber hose joint (3-way)	2	10	1.5- 2.0 (11-14)	
Rear shock absorber air sensor	1	10	0.8- 1.2 (5.8-9)	
3-Way joint	1	14	1.9- 2.3 (14-17)	
Swing arm pivot bolt				
(Right)	1	35	5.0- 7.0 (36-51)	
(Left)	1	35	1.6- 2.0 (12-14)	
Swing arm pivot nut	1	35	5.0- 7.0 (36-51)	
Final gear case	3	10	3.5- 4.5 (25-33)	
Final gear case cover	2	10	3.5- 4.5 (25-33)	
	6	8	2.3- 2.8 (17-20)	
Final gear case drain bolt	1	6	1.0- 1.4 (7-10)	
Filler cap bolt	1	30	1.0- 1.4 (7-10)	
Pinion nut	1	16	4.0- 5.0 (29-36)	



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

• STANDARD TORQUE VALUES

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



TOOLS

• SPECIAL TOOLS

Tool Name	Tool No.	Q'ty	Ref. page
Vacuum gauge set	07404-0020000	1	3-10
Oil pressure gauge	07506-3000000	1	2- 5
Oil pressure gauge attachment	07510-4220100	1	2- 4
Primary gear holder	07924-4250000	1	8- 5, 8- 6
Rotor puller	07933-4250000	1	18- 6
Bearing race remover	07953-4250001	1	15-24
Carburetor adjusting wrench	07908-4220100	1	3-11
Carburetor pilot screw wrench	07908-4220201	1	3-17
Snap ring pliers	07914-3230001	1	17- 8, 17-15
Steering stem socket	07916-3710100	1	14-25
6 mm hollow set wrench	07917-3230000	1	14-16, 14-19
Bearing race remover	07946-3710500	1	14-24
Steering stem driver	07946-3710600	1	14-23
Bearing driver attachment	07946-3710700	1	14-24
Piston base	07958-3000000	2	7- 8
Valve lifter holder	07964-4220001	1	3- 7
Valve guide reamer 5.5 mm	07984-2000000	1	6-14, 6-15
Piston ring compressor	07954-4220000	2	7- 8
Valve lifter bore protector	07999-4220000	1	6-11
Socket bit 10 mm	07917-3710000	1	8- 6
Clutch adjusting wrench	07908-3230000	1	3-18
Valve seat cutter 24.5 mm	07780-0010100	1	} 6-16
Valve seat cutter 27.5 mm	07780-0010200	1	
Valve seat flat cutter 28 mm	07780-0012100	1	
Valve seat flat cutter 30 mm	07780-0012200	1	
Valve seat interior cutter 30 mm	07780-0014000	1	
Valve seat cutter holder 5.5 mm	07781-0010100	1	
Retainer wrench A	07910-4610100	1	10- 9
Retainer wrench B	07910-4610200	1	10-10, 10-11, 10-14
Damper compressor	07964-4610000	1	10- 4, 10- 6
Preload inspection tool	07998-4610000	1	10-13
Subtransmission base	07965-4610000	1	10- 9
Bearing driver	07946-6340000	1	14-24
Clutch center holder	07923-3710000	1	8- 3, 8- 8
Bearing remover set	07936-8890100	1	15-14
P.V.T. adjust wrench	07908-4690001	1	15-16
Final retainer wrench	07910-3710000	1	16- 4, 16- 6, 16-12
Oil seal driver attachment	07946-6920100	1	16- 7, 16-10
Retainer wrench B	07910-4630100	1	16- 9, 16-11

**10 GENERAL INFORMATION**

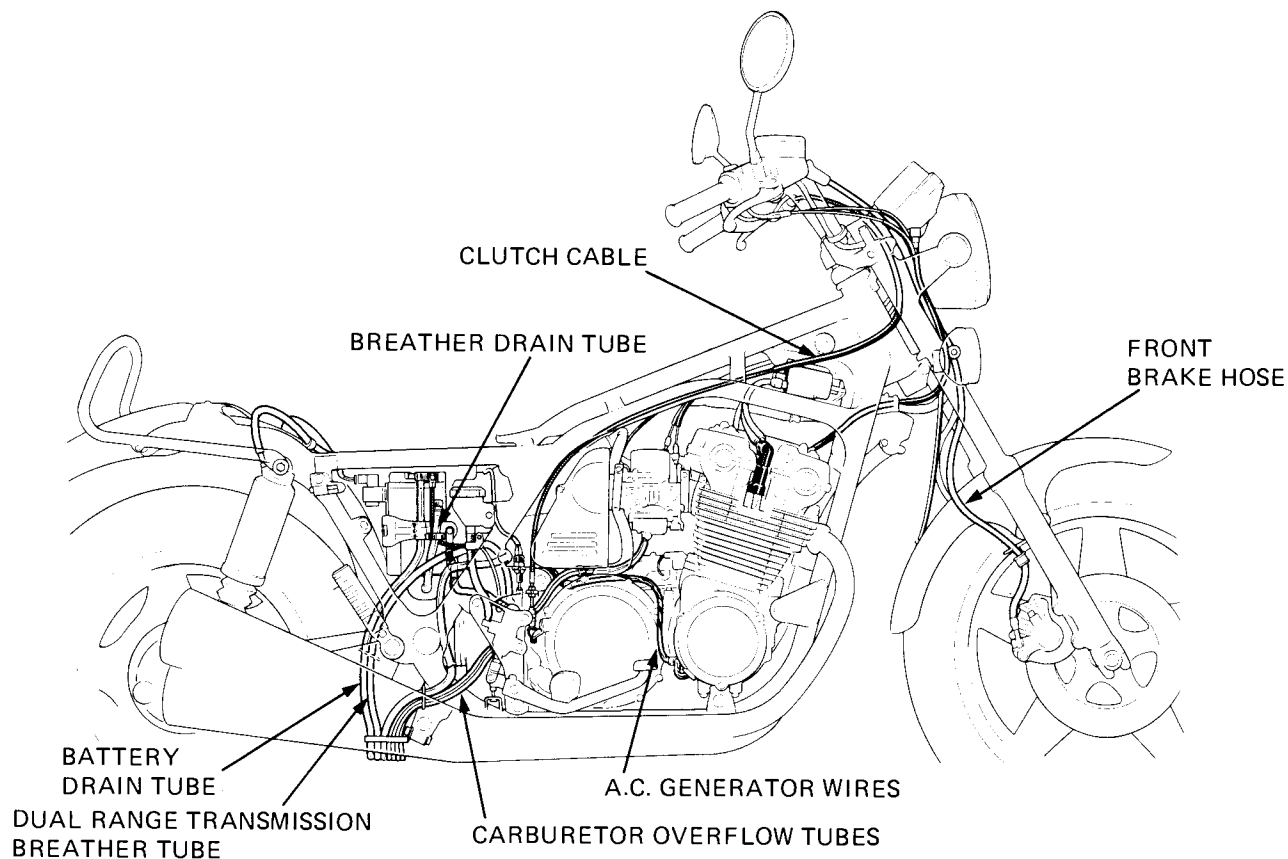
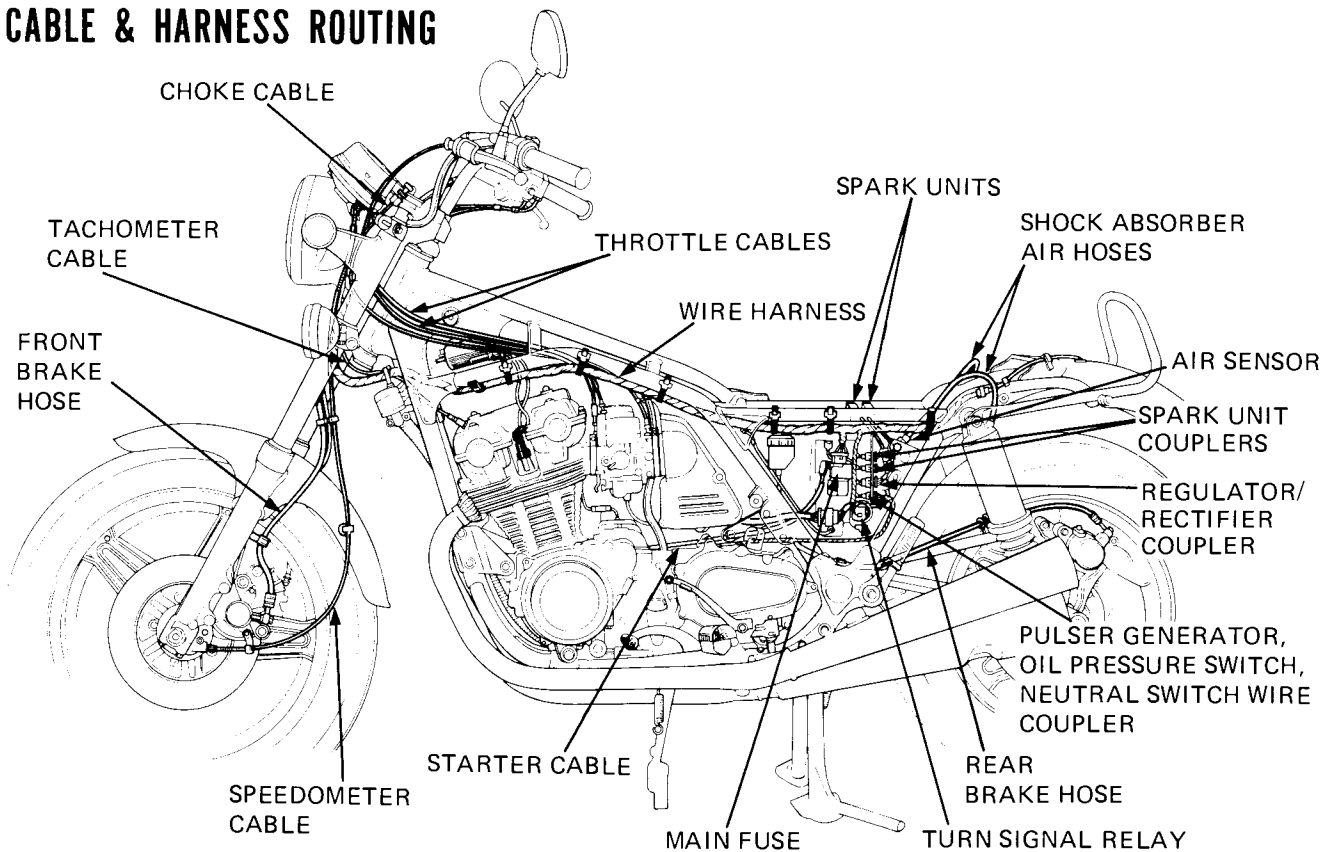
Tool Name	Tool No.	Q'ty	Ref. Page
Dis/assembly tool A	07965-3710100	1	16- 5
Preload inspection tool	07924-3710000	1	16- 3, 16-11, 16-14
Oil seal remover	07948-4630100	1	16- 6
Final assembly/disassembly base A	07965-4630100	1	16- 3, 16- 9
Disassembly tool B	07965-4630300	1	16- 5
Gear center guide	07965-4630500	1	16- 5
Oil seal guide	07973-4630100	1	16-10
O-ring guide	07973-4630200	1	16-10
Pinion gear dis/assembly tool	07931-4630200	1	16-12

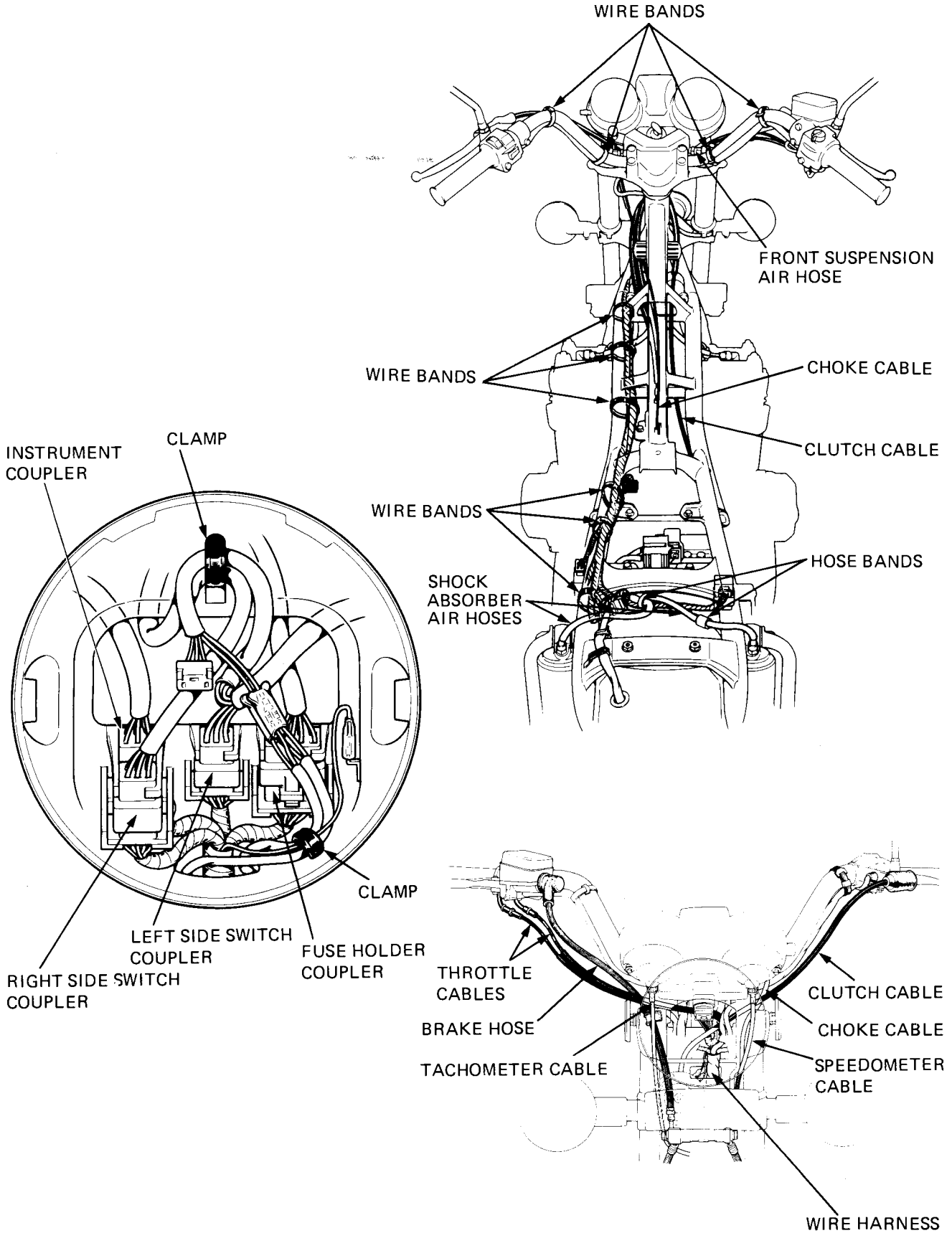
• COMMON TOOLS

Tool Name	Part No.	Q'ty	Alternate Tool	Part No.	Ref. Page
Float level gauge	07401-0010000	1			4- 8
Retainer wrench A	07710-0010100	1	Bearing retainer wrench	07910-2830000	5- 3
Retainer wrench B	07710-0010200	1	Bearing retainer wrench	07920- 3230101 3600000	14-11, 14-13
Retainer wrench body	07710-0010401	1			14-11, 14-13, 15- 3
Lock nut wrench 20 x 24 mm	07716-0020100	1			8- 3, 8- 8
Extension bar	07716-0020500	1			8- 3, 8- 8
Valve guide remover 5.5 mm	07742-0010100	1	Valve guide driver	07942-3290100	6-15
Valve guide driver B	07742-0020200	1	Valve guide driver	07942-3290200	6-15
Bearing driver outer 37 x 40 mm	07746-0010200	1	Bearing driver	07946-4300200	10-11, 15-14
Bearing driver outer 42 x 47 mm	07746-0010300	1	Bearing driver	07945-3330100	10-12, 14-13, 15- 6
Bearing driver outer 52 x 55 mm	07746-0010400	1	Bearing driver	07946- 9370100 3290000	2-11, 15- 6
Bearing driver handle outer A	07749-0010000	1	Driver handle attachment	07949-6110000	10-12, 14-13, 15- 6 16- 6, 16- 7, 16-10
Bearing driver handle outer B	07746-0020100	1	Bearing driver	07945-3230201	13-12, 13-13
Bearing driver handle outer C	07746-0030100	1			
Bearing driver inner 25 mm	07746-0030200	1	Bearing driver	07945-3710200	10-12, 12- 8
Valve spring compressor	07757-0010000	1	Valve spring compressor	07957-3290001	6-11
Drive pilot 15 mm	07746-0040300	1			14-13
Drive pilot 20 mm	07746-0040400	1			15- 6, 16- 6
Front fork oil seal Driver body	07747-0010100	1			
Attachment (E)	07747-0010600	1	Fork seal driver	07947-3710100	14-19



CABLE & HARNESS ROUTING







MAINTENANCE SCHEDULE

Perform the PRE-RIDE INSPECTION in the Owner's Manual at each scheduled maintenance period.

I : INSPECT AND CLEAN, ADJUST, LUBRICATE, OR REPLACE IF NECESSARY.

C: CLEAN

R: REPLACE

A: ADJUST

L: LUBRICATE

	ITEM	FREQUENCY	WHICHEVER COMES FIRST ↓	ODOMETER READING (NOTE 3)								Refer to
				EVERY	600 mi (1,000 km)	4,000 mi (6,400 km)	8,000 mi (12,800 km)	12,000 mi (19,200 km)	16,000 mi (25,600 km)	20,000 mi (32,000 km)	24,000 mi (38,400 km)	
EMISSION RELATED ITEMS	* FUEL LINES				I	I	I	I	I	I	I	Page 3- 3
	* THROTTLE OPERATION			I	I	I	I	I	I	I	I	Page 3- 3
	* CARBURETOR-CHOKE				I	I	I	I	I	I	I	Page 3- 4
	AIR CLEANER	NOTE 1		C	R	C	R	C	R	C	R	Page 3- 4
	CRANKCASE BREATHER	NOTE 2		C	C	C	C	C	C	C	C	Page 3- 5
	SPARK PLUGS			R	R	R	R	R	R	R	R	Page 3- 5
	* VALVE CLEARANCE			I	I	I	I	I	I	I	I	Page 3- 6
	ENGINE OIL	YEAR		R	R	R	R	R	R	R	R	Page 2- 3
	ENGINE OIL FILTER	YEAR		R	R	R	R	R	R	R	R	Page 2- 3
	* CAM CHAIN TENSION			A	A	A	A	A	A	A	A	Page 3-10
	* CARBURETOR-SYNCHRONIZE			I	I	I	I	I	I	I	I	Page 3-10
* CARBURETOR- IDLE SPEED			I	I	I	I	I	I	I	I	Page 3-11	
NON-EMISSION RELATED ITEMS	* DRIVE SHAFT JOINT						L		L		L	Page 2-12
	* FINAL DRIVE LUBRICANT					I		I		R		Page 2-9,12
	BATTERY	MONTH		I	I	I	I	I	I	I	I	Page 3-14
	BRAKE FLUID	MONTH I 2 YEARS* R		I	I	I	*R	I	I	*R	I	Page 3-14
	BRAKE PAD WEAR				I	I	I	I	I	I	I	Page 3-15
	BRAKE SYSTEM			I	I	I	I	I	I	I	I	Page 3-15
	* BRAKE LIGHT SWITCH			I	I	I	I	I	I	I	I	Page 3-16
	* HEADLIGHT AIM			I	I	I	I	I	I	I	I	Page 3-16
	CLUTCH			I	I	I	I	I	I	I	I	Page 3-17
	SIDE STAND				I	I	I	I	I	I	I	Page 3-18
	* SUSPENSION			I	I	I	I	I	I	I	I	Page 3-19
* NUTS, BOLTS, FASTENERS			I	I	I	I	I	I	I	I	Page 3-20	
** WHEELS			I	I	I	I	I	I	I	I	Page 3-20	
** STEERING HEAD BEARING			I	I	I	I	I	I	I	I	Page 3-21	

* SHOULD BE SERVICED BY AN AUTHORIZED HONDA DEALER, UNLESS THE OWNER HAS PROPER TOOLS AND SERVICE DATA AND IS MECHANICALLY QUALIFIED.

** IN THE INTEREST OF SAFETY, WE RECOMMEND THESE ITEMS BE SERVICED **ONLY** BY AN AUTHORIZED HONDA DEALER.

NOTES: 1. SERVICE MORE FREQUENTLY WHEN RIDING IN DUSTY AREAS.

2. SERVICE MORE FREQUENTLY WHEN RIDING IN RAIN OR AT FULL THROTTLE. (U.S.A. ONLY)

3. FOR HIGHER ODOMETER READINGS, REPEAT AT THE FREQUENCY INTERVAL ESTABLISHED HERE.



EMISSION CONTROL SYSTEM

The CB900C is equipped with two Emission Control Systems.

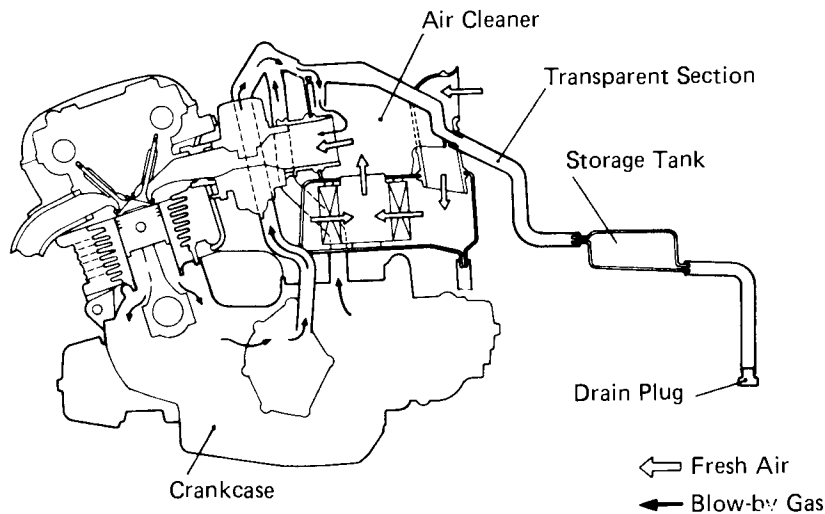
EXHAUST EMISSION CONTROL SYSTEM

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

The exhaust emission control system is separate from the crankcase emission control system.

CRANKCASE EMISSION CONTROL SYSTEM

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



EMISSION CONTROL INFORMATION LABEL

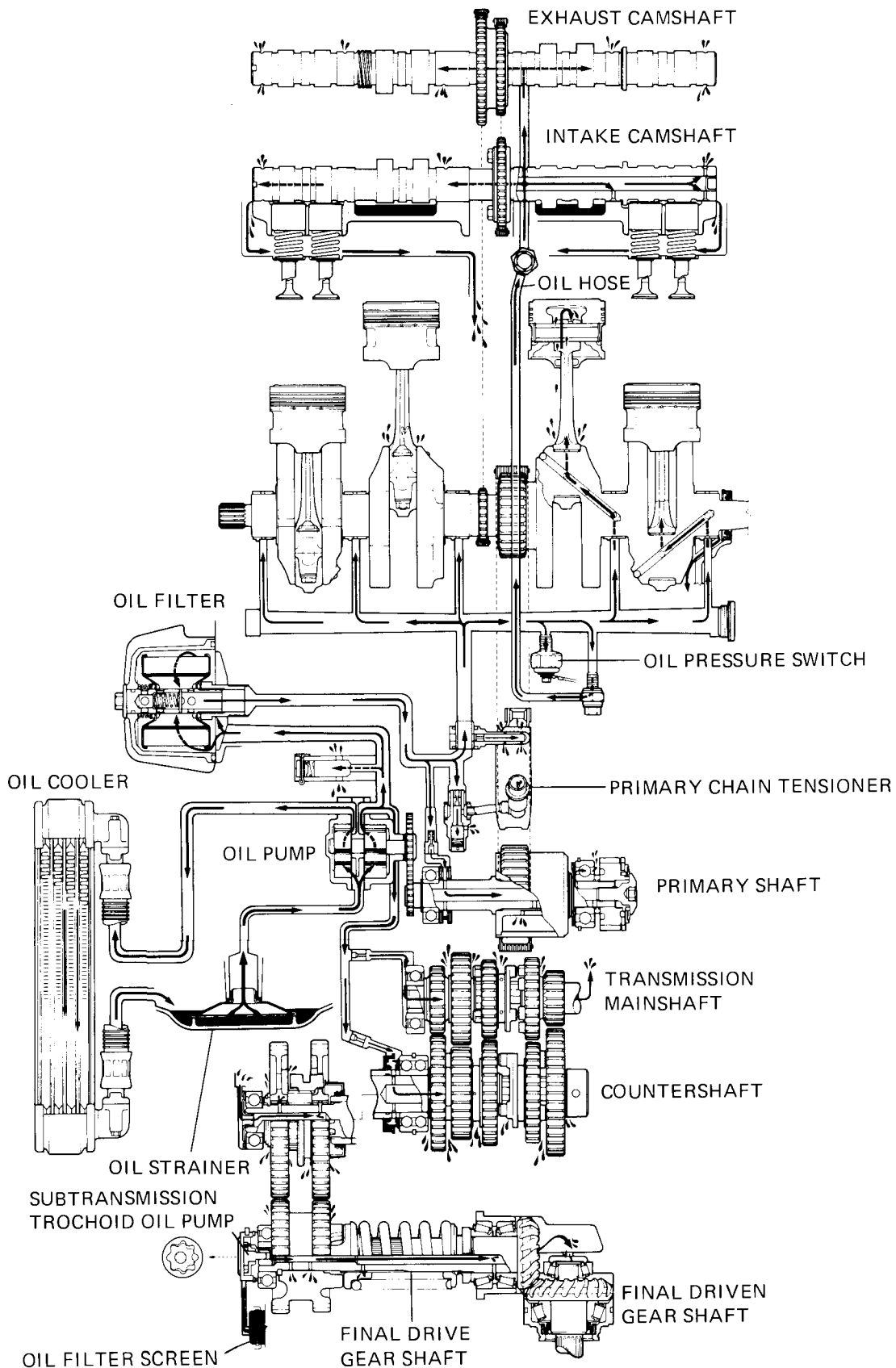
An Emission Control information Label is located on the frame as shown. It contains basic tune-up specifications.



Vehicle Emission Control Information label.



ENGINE LUBRICATION
DIAGRAM





SERVICE INFORMATION	2- 1	OIL PUMP	2- 5
TROUBLESHOOTING	2- 2	SUBTRANSMISSION OIL	2- 9
<ENGINE LUBRICATION>		SUBTRANSMISSION OIL PUMP	2-10
ENGINE OIL LEVEL	2- 3	<CHASSIS LUBRICATION>	
ENGINE OIL & FILTER CHANGE	2- 3	FINAL DRIVE OIL	2-12
OIL STRAINER CLEANING	2- 4	DRIVE SHAFT COUPLING	2-12
OIL PRESSURE CHECK	2- 4	CONTROL CABLE LUBRICATION	2-12
OIL COOLER INSPECTION	2- 5	LUBRICATION POINTS	2-13

SERVICE INFORMATION

GENERAL INSTRUCTIONS

Oil pressure relief valve: See Section 13 (CRANKSHAFT/PRIMARY SHAFT).

SPECIFICATIONS

Engine oil

Oil capacity	3.5 lit (3.7 US qt, 3.0 Imp qt) at change 4.5 lit (4.7 US qt, 3.9 Imp qt) at disassembly	
Oil recommendation	<p>Use HONDA 4-STROKE OIL or equivalent. API SERVICE CLASSIFICATION: SE VISCOSITY: SAE 10W-40</p> <p>Other viscosities shown in the chart may be used when the average temperature in your riding area is within the indicated range.</p>	<p>OIL VISCOSITIES</p>
Oil pump delivery	Engine 41 lit (43 US qt, 36 Imp qt)/min. at 7,000 rpm Cooler 18 lit (19 US qt, 16 Imp qt)/min. at 7,000 rpm	
Oil pressure (at oil pressure switch)	5.5 kg/cm ² (78 psi) at 7,000 rpm (80°C/176°F)	

Oil pump service data

	Standard	Service limit
Rotor tip clearance (Engine/Cooler)	0.15 mm (0.059 in)	0.20 mm (0.008 in)
Pump body clearance (Engine/Cooler)	0.15-0.22 mm (0.059-0.087 in)	0.35 mm (0.014 in)
Pump end clearance (Engine/Cooler)	0.02-0.07 mm (0.008-0.028 in)	0.10 mm (0.004 in)

Subtransmission

Oil capacity	600 cc (20.4 oz)	
Recommended oil	Hypoid gear oil	SAE #80

Final drive gear

Oil capacity	150 cc (5.1 oz)		
Recommended oil	Hypoid gear oil	Above 5°C/41°F	SAE #90
		Below 5°C/41°F	SAE #80



TOOLS

Special

Oil Pressure Gauge	07506-3000000
Oil Pressure Gauge Attachment	07510-4220100

Common

Driver handle A	07749-0010000	or 07949-6110000
Bearing driver outer 52 x 55 mm	07746-0010400	or 07946-9370100

TORQUE VALUES

Engine oil drain plug	3.5-4.0 kg-m (25-29 ft-lb)
Engine oil filter bolt	2.8-3.2 kg-m (20-23 ft-lb)
Oil pressure switch	1.5-2.0 kg-m (11-14 ft-lb) Apply Loctite ®
Subtransmission oil drain bolt	1.6-2.0 kg-m (12-14 ft-lb)
Subtransmission oil level check bolt	3.5-4.5 kg-m (25-33 ft-lb)
Subtransmission cover	3.0-3.4 kg-m (22-25 ft-lb)

TROUBLESHOOTING

Oil level too low

1. External oil leaks
2. Worn piston rings
3. Worn valve guide or seal

Oil contamination

1. Oil or filter not changed often enough
2. Head gasket faulty
3. Worn piston rings

High oil pressure

1. Pressure relief valve stuck open
2. Plugged oil filter, gallery, or metering or orifice
3. Incorrect oil being used

No oil pressure

1. Oil level low
2. Oil pump drive gear broken
3. Oil pump faulty
4. Internal oil leakage

Low oil pressure

1. Oil level low
2. Pressure relief valve stuck open
3. Plugged oil pick-up screen
4. Oil pump worn
5. External oil leaks



<ENGINE LUBRICATION>

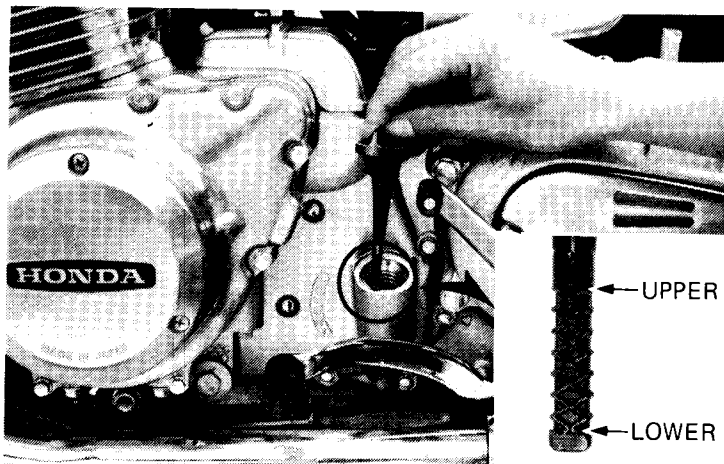
ENGINE OIL LEVEL

Run the engine and allow to idle for 2-3 minutes.

Stop the engine and support the motorcycle on the center stand. Check the oil level with the filler cap dipstick after a few minutes. Do not screw in the cap when making this check.

If the level is below the lower level mark on the dipstick, fill to the upper level mark.

Check the oil pressure warning light. This light should go off when the engine starts. If it does not, check the oil pump function and/or oil circuit.



ENGINE OIL & FILTER CHANGE

NOTE

Change engine oil with the engine warm and the motorcycle on its center stand to assure complete and rapid draining.

Warm the engine to normal operating temperature.

Stop the engine.

Place the motorcycle on its center stand.

Remove the oil filler cap, drain plug and oil filter bolt and drain the oil.

Make sure that the sealing washer on the drain plug and the O-rings on the oil filter bolt and oil filter cover are in good condition.

After completely draining, replace the oil filter and install the oil filter bolt and drain plug.

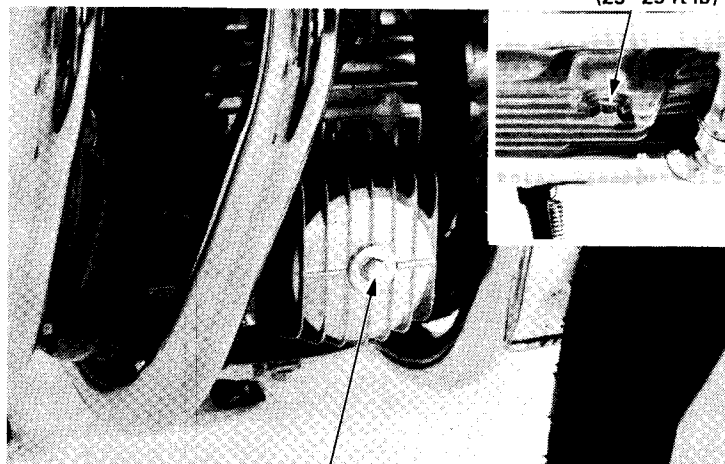
Fill the crankcase with 3.5 lit (3.7 US qt, 3.0 Imp qt) of the recommended oil.

Install the oil filler cap.

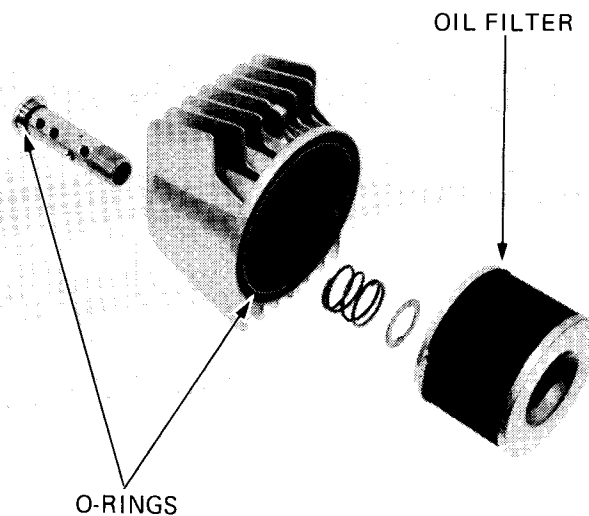
Start the engine and let it idle for 2-3 minutes. Stop the engine.

Add the recommended oil to the upper level. Make sure that there are no oil leaks.

DRAIN PLUG
3.5-4.0 kg-m
(25-29 ft-lb)



OIL FILTER BOLT
2.8-3.3 kg-m (20-23 ft-lb)



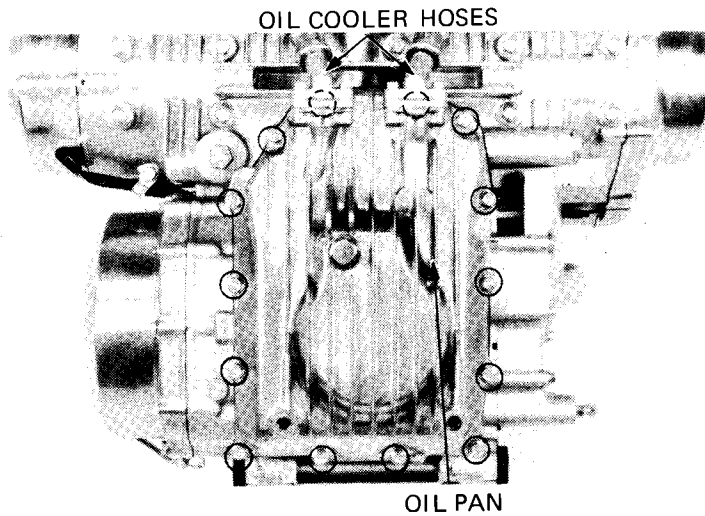


OIL STRAINER CLEANING

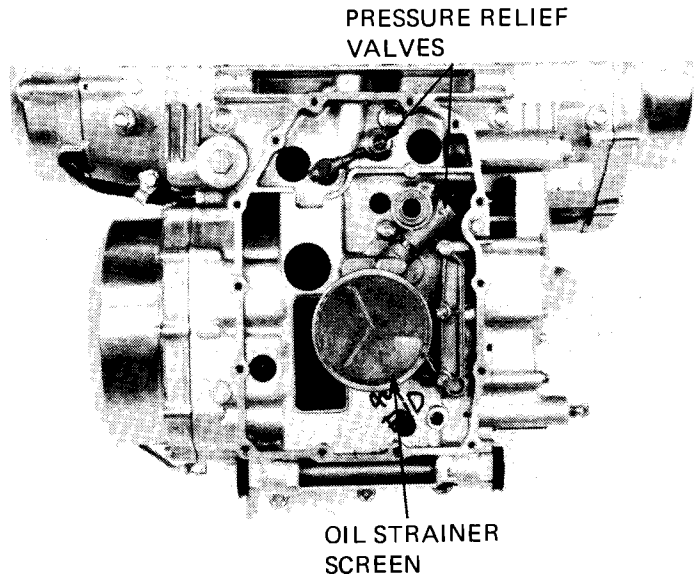
NOTE

The oil strainer can be removed with the engine mounted in the frame.

- Remove the oil filler cap, drain plug and oil filter bolt.
- Remove the exhaust pipes.
- Disconnect the oil cooler hoses.
- Remove the oil pan bolts and oil pan.



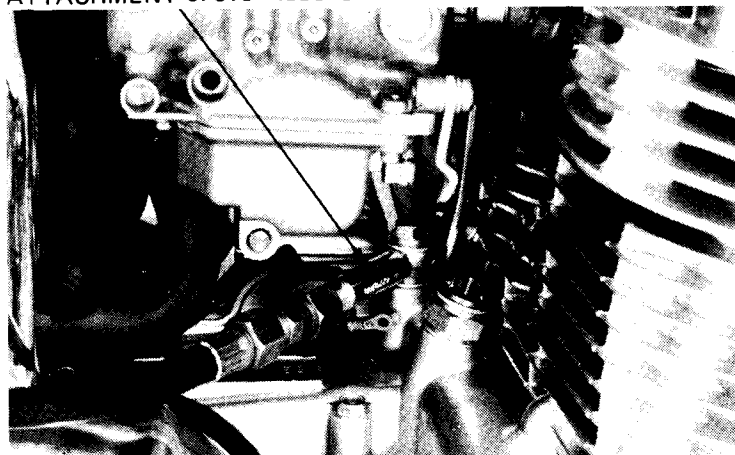
- Remove and clean the oil strainer.
- Check the operation of the pressure relief valves.
- Install the oil strainer and oil pan.
- Connect the oil hoses and install the exhaust pipes.
- Fill the crankcase with recommended oil (Page 2-3).



OIL PRESSURE CHECK

- Warm the engine up to normal operating temperature (approximately 80°C/176°F).
- Stop the engine.
- Remove the oil pressure switch.
- Connect an oil pressure gauge to the pressure switch hole.
- Check the oil level.

OIL PRESSURE GAUGE
ATTACHMENT 07510-4220100





Start the engine.
Check the oil pressure at 7,000 rpm.

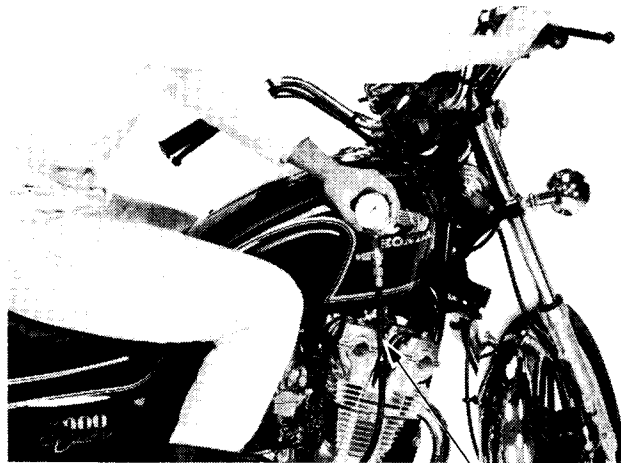
OIL PRESSURE:

5.5 kg/cm² (78 psi) at 7,000 rpm
(80°C/176°F)

Stop the engine.
Apply Loctite ® to the pressure switch threads and install.

TORQUE: 1.5–2.0 kg-m (11–14 ft-lb)

Connect the oil pressure switch.
Start the engine.
Check that the oil pressure warning light goes out. If the oil pressure warning light stays on, stop the engine immediately and determine the cause.
Refer to page 21-2 for warning switch.



OIL PRESSURE GAUGE
07506-3000000
(Not available in U.S.A.)

OIL COOLER INSPECTION

Check for damage to the oil cooler core.
Clean the core if necessary.



OIL COOLER

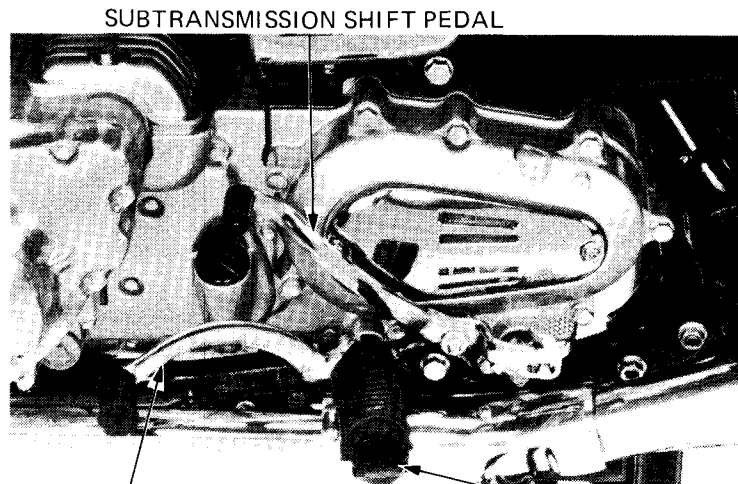
OIL PUMP

REMOVAL

NOTE

The oil pump can be removed with the engine mounted in the frame.

- Drain the engine oil
- Remove the left foot peg.
- Remove the subtransmission shift pedal.
- Remove the gearshift pedals.
- Remove the oil pump cover.

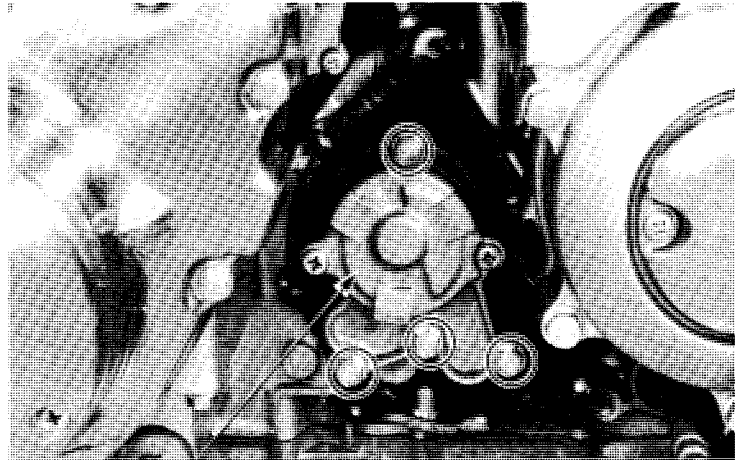


GEARSHIFT PEDAL

LEFT FOOT PEG



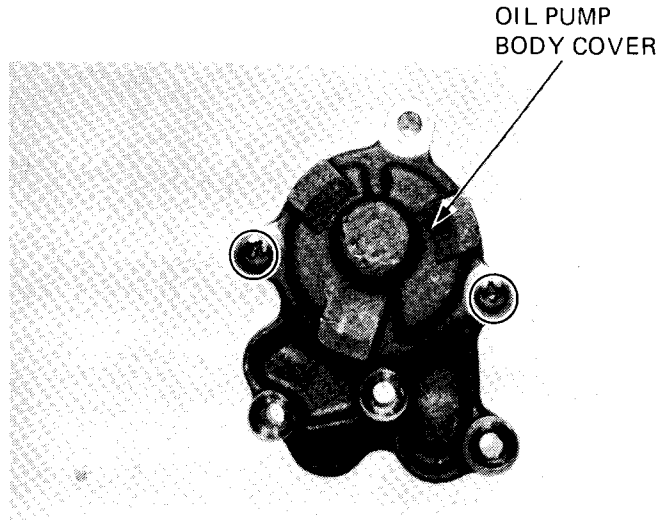
Remove the oil pump.



OIL PUMP

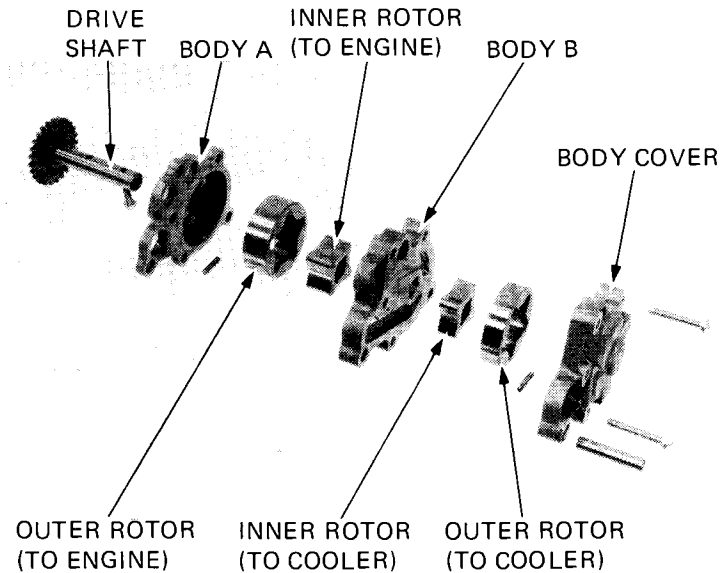
DISASSEMBLY

Remove the oil pump body cover.



OIL PUMP
BODY COVER

Remove the inner and outer rotors.
Remove the drive pin and drive shaft.



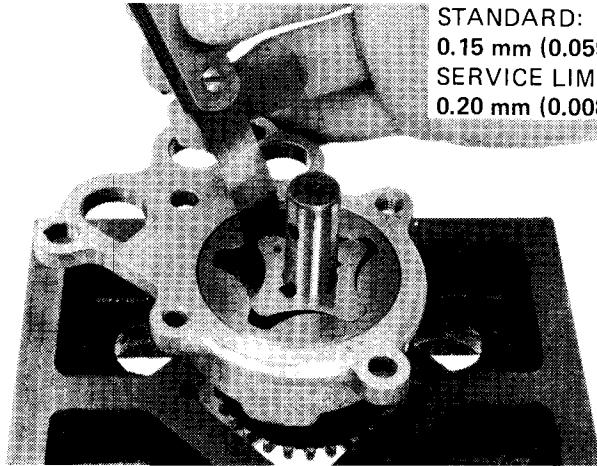


INSPECTION

Measure the rotor tip clearance.

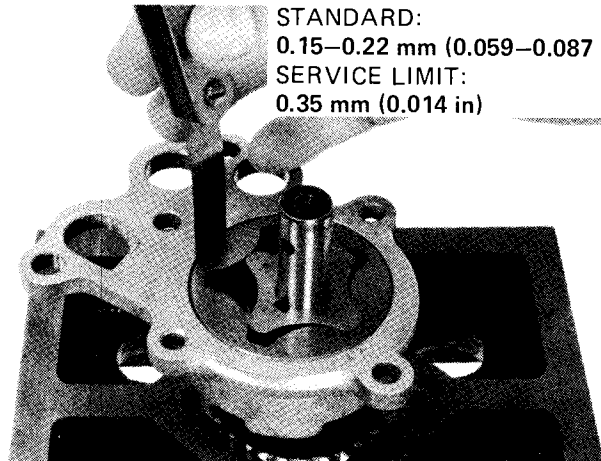
NOTE

Specifications are the same for the engine and cooler pumps.



STANDARD:
0.15 mm (0.059 in)
SERVICE LIMIT:
0.20 mm (0.008 in)

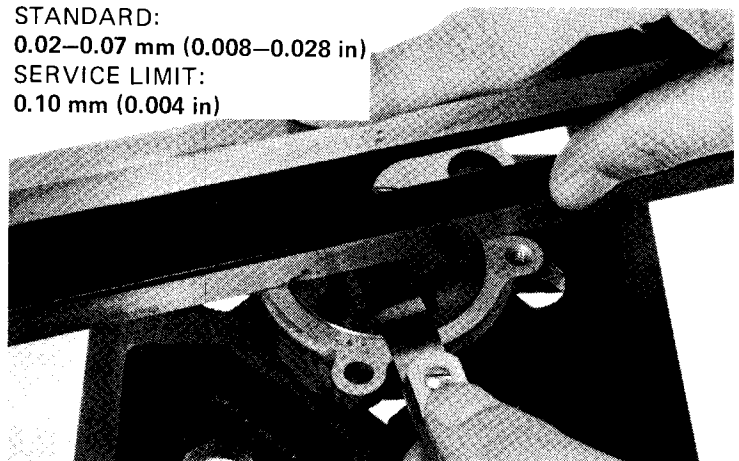
Measure the pump body clearance.



STANDARD:
0.15–0.22 mm (0.059–0.087 in)
SERVICE LIMIT:
0.35 mm (0.014 in)

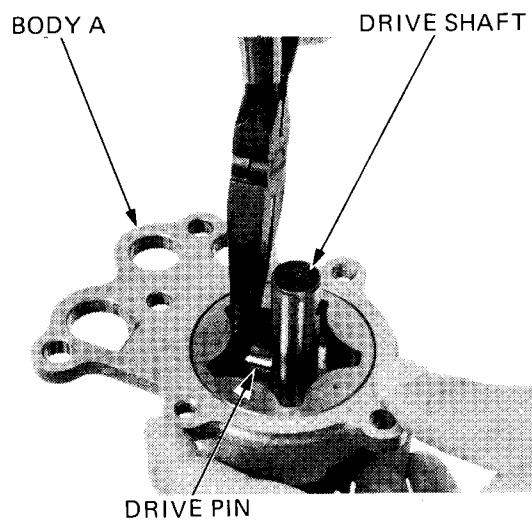
Measure the pump end clearance.

STANDARD:
0.02–0.07 mm (0.008–0.028 in)
SERVICE LIMIT:
0.10 mm (0.004 in)




ASSEMBLY

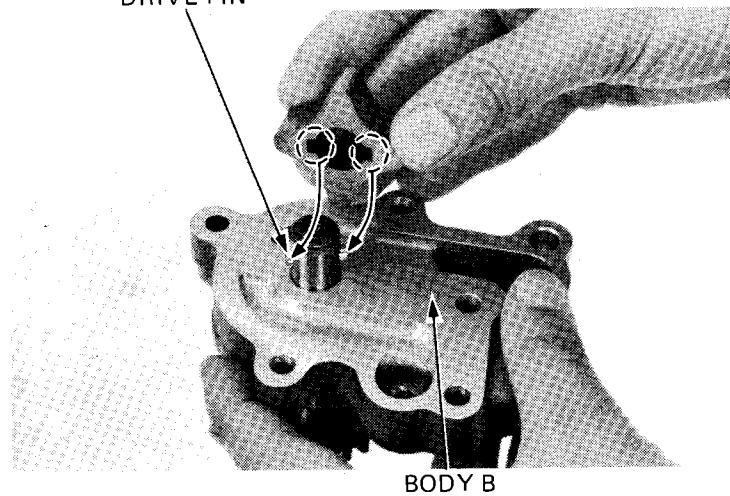
Install the engine outer rotor into body A.
 Insert the drive shaft.
 Insert the drive pin into the drive shaft.



Align the slots in the inner rotor with the drive pin.

INNER ROTOR

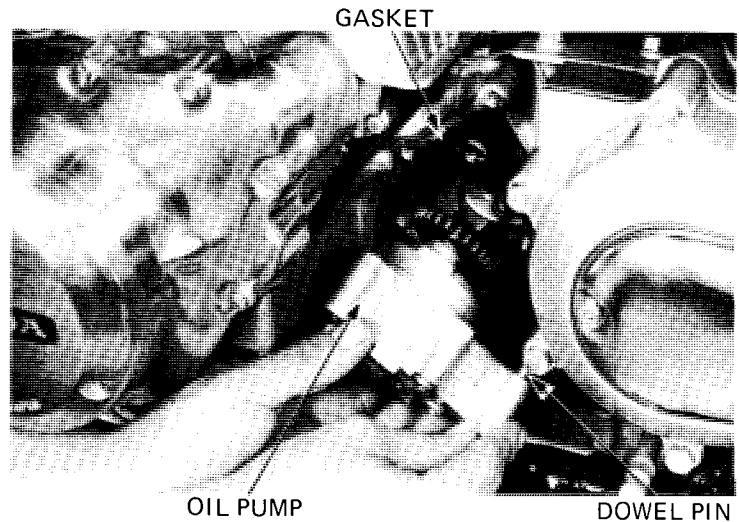

Install body B.
 Insert the drive pin into the shaft.
 Align the slot in the inner rotor with the drive pin.
 Install the side covers.
 Tighten the screws.

DRIVE PIN




INSTALLATION

Install a new gasket.
Engage the oil pump drive and driven gears.
Install the dowel pin.
Tighten the oil pump mounting bolts.



Install the oil pump cover.

NOTE

Install the sealing washers and bolts to the "▽" mark points.

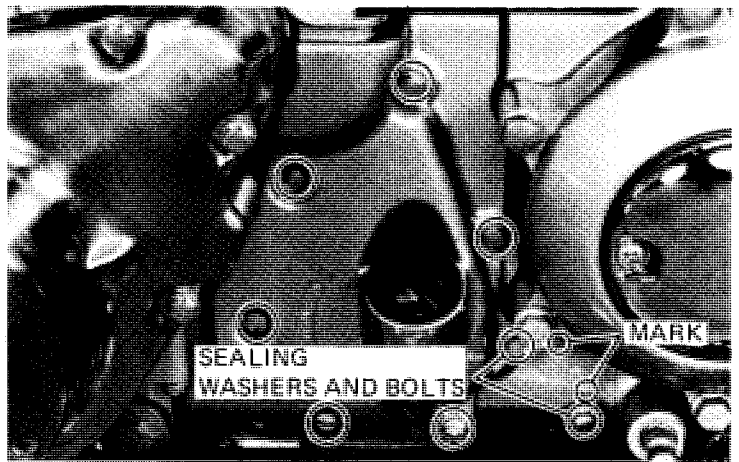
Tighten the oil pump cover bolts.

Install the gearshift pedal and left foot peg.
Fill the engine with the recommended oil (page 2-3).

SUBTRANSMISSION OIL

CHECK

Place the motorcycle on its center stand.
Shift the subtransmission into low position.
Remove the protector cover.
Remove the oil check bolt.
Check that the subtransmission is filled to the lower edge of the inspection hole with oil.



If the oil level is low, check for oil leaks.
Add the recommended oil until it reaches the lower edge of the inspection hole.

CHANGE

Remove the oil filler cap.
Remove the drain bolt and drain the oil.

Install the drain bolt.

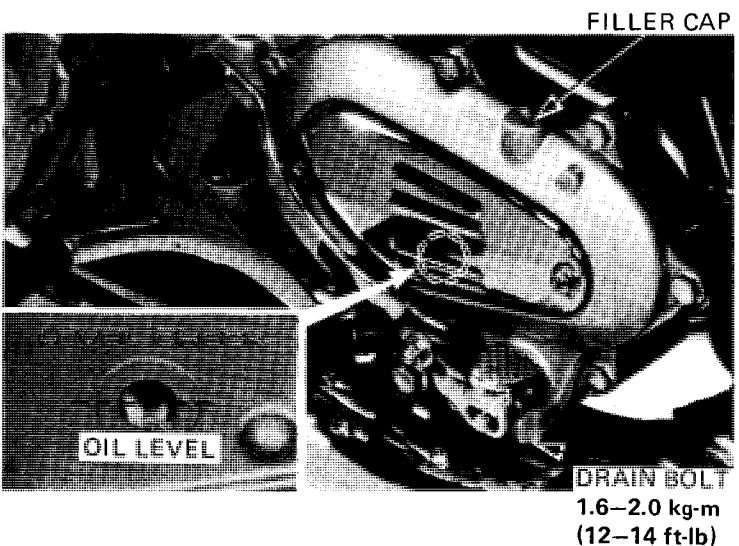
TORQUE: 1.6–2.0 kg-m (12–14 ft-lb)

Fill the subtransmission with the recommended oil up to the lower edge of the inspection hole.

OIL CAPACITY: 600 cc (20.4 oz)

RECOMMENDED OIL:

HYPOID GEAR OIL SAE #80

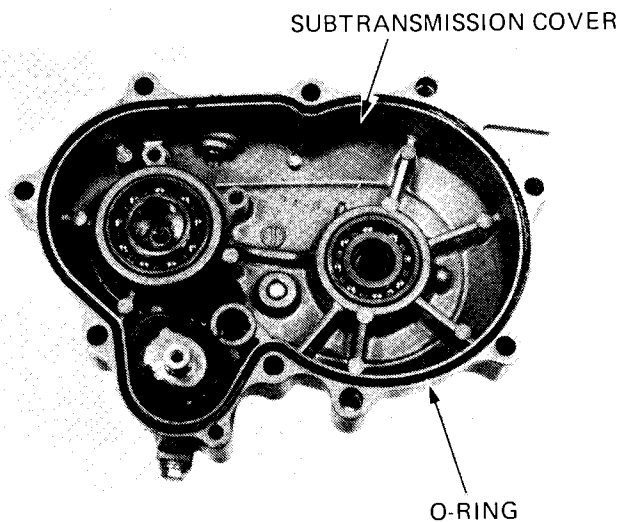




SUBTRANSMISSION OIL PUMP

REMOVAL

Drain the subtransmission oil (Page 2-9).
 Remove the subtransmission cover (Page 10-3).
 Remove the shift drum.
 Remove the O-ring.

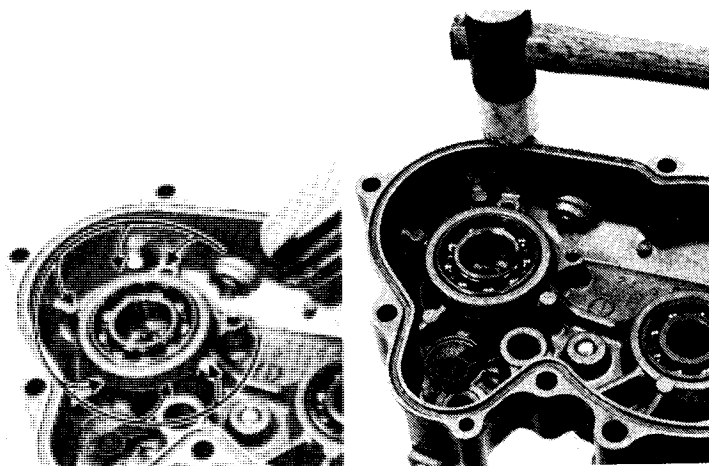


Heat the case around the bearing evenly with a 1 kw dryer for 3 minutes.

Remove the bearing, tapping the case lightly with a plastic hammer.

WARNING

Be sure to wear gloves when removing the heated bearing.

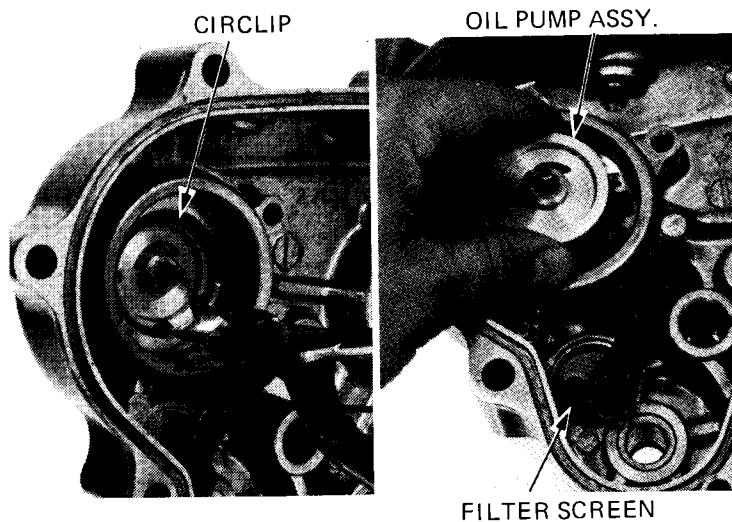


Remove the circlip.
 Remove the oil pump Assy.

Clean the filter screen with compressed air.

CAUTION:

Do not remove the filter screen.



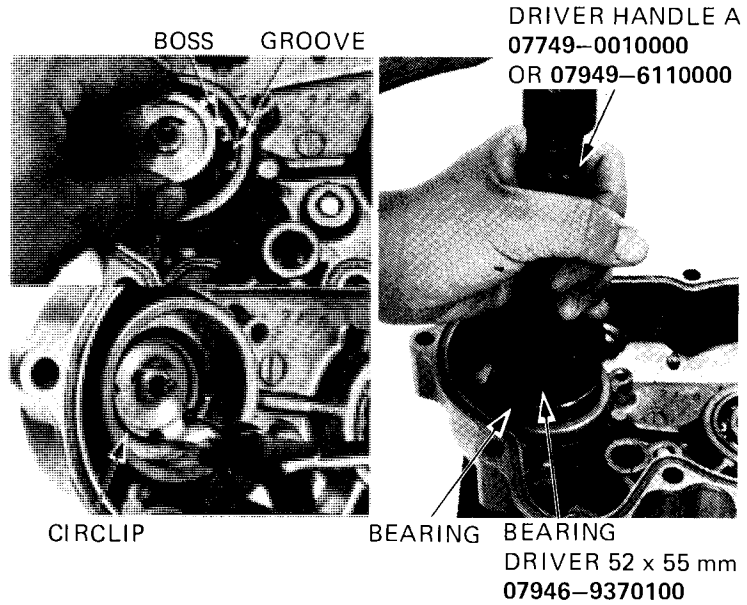


INSTALLATION

Clean the oil pump assy., bearing and cover thoroughly.

Install the oil pump assy, aligning the oil pump boss with the cover groove.

Install the circlip and drive the bearing into the cover.



Lubricate the oil pump and bearing with hypoid gear oil, SAE #80.

Install the shift drum.

Turn the rear wheel or drive gear by hand so that the slot in the drive gear shaft collar is vertical.

Install the case cover with the oil pump drive shaft boss aligned with the collar slot and new O-ring.

CAUTION:

Check the location of the shift drum and shift fork if difficulty is encountered in installing the cover (See page 10-7, 10-8). Do not strike the cover with excessive force.

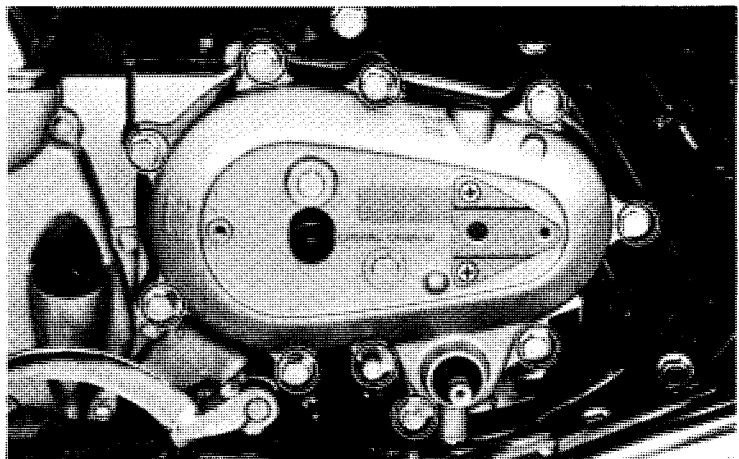
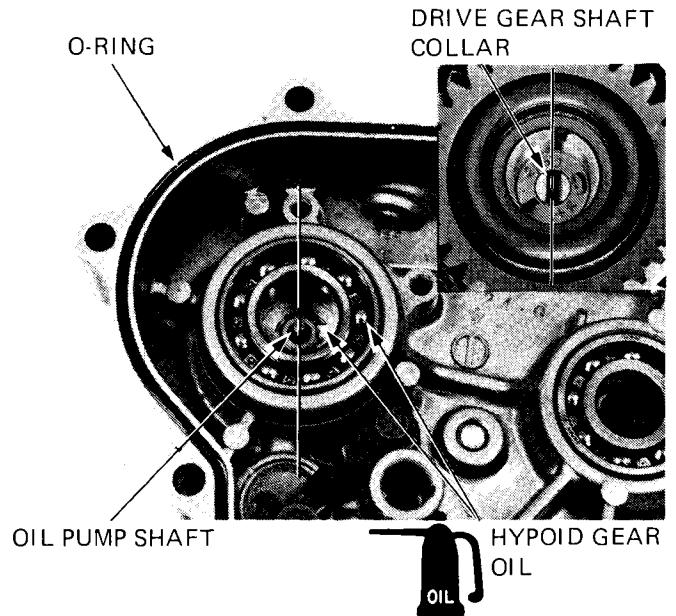
Tighten the cover bolts.

TORQUE: 3.0-3.4 kg-m (22-25 ft-lb)

Install the exhaust pipe heat shield.

Fill the case with the recommended oil (page 2-9).

Install the removed parts (page 10-8).





< CHASSIS LUBRICATION >

FINAL DRIVE GEAR OIL

CHECK

Place the motorcycle on its center stand.
 Remove the oil filler cap.
 Check that the final gear case is filled up to the lower edge of the oil filler cap hole.

Check for leaks, if the level is low. Pour fresh oil through the oil filler hole until it reaches the lower edge.

CHANGE

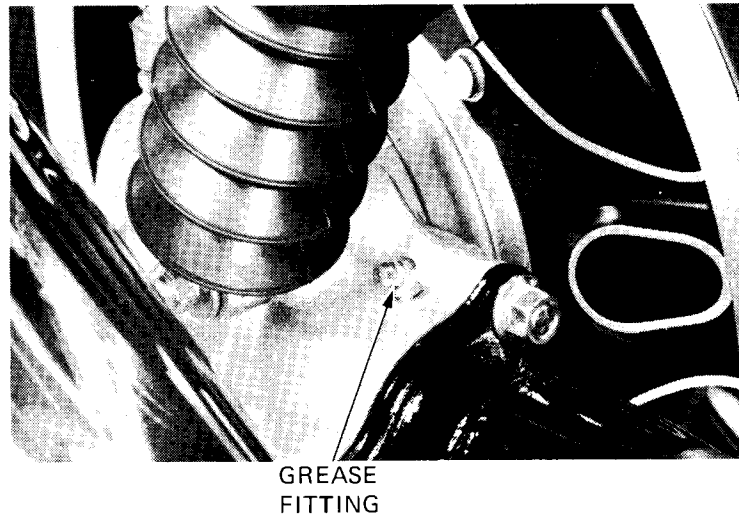
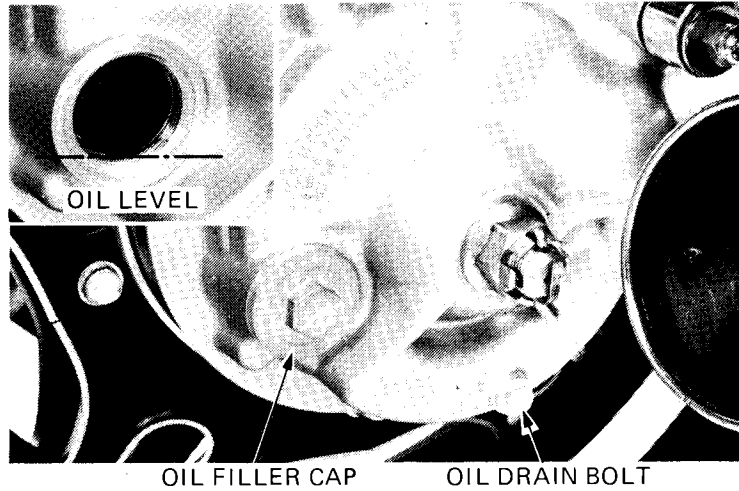
Remove the oil filler cap.
 Remove the drain bolt to drain all oil from the final gear case.
 Install the drain bolt securely.
 Fill the gear case with the recommended oil up to the correct level.

OIL CAPACITY: 150 cc (5.1 oz)

RECOMMENDED OIL: HYPOID GEAR OIL
 API, GL-5 SAE #90 (Above 5°C/41°F)
 SAE #80 (Below 5°C/41°F)

DRIVE SHAFT COUPLING

Pump LITHIUM-BASED multipurpose grease through the drive shaft joint grease fitting.

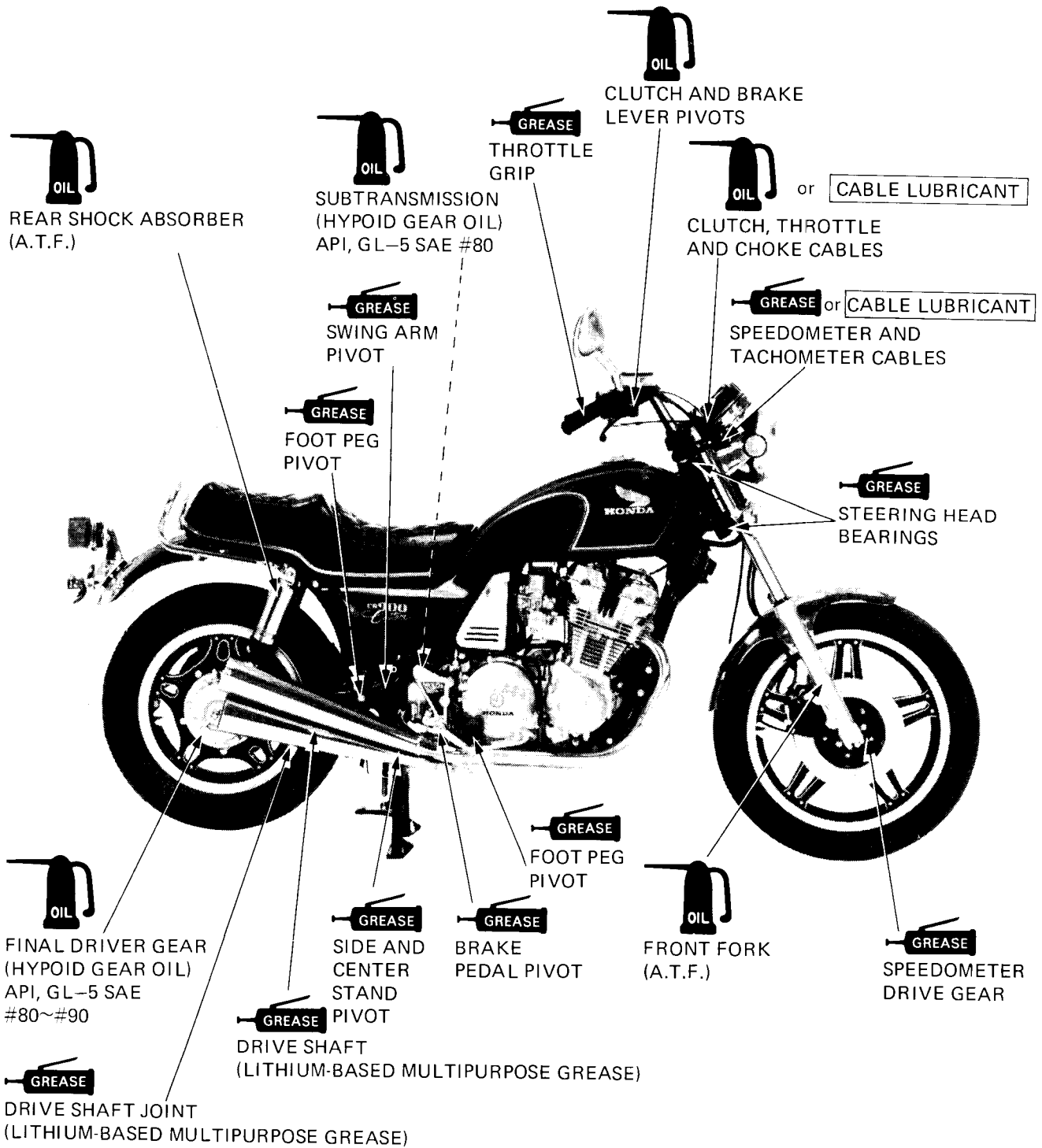


CONTROL CABLE LUBRICATION

Periodically, disconnect the throttle and clutch cables at their upper ends.
 Thoroughly lubricate the cables and their pivot points with a commercially available cable lubricant.



LUBRICATION POINTS





Download the full PDF manual instantly.

Our customer service e-mail:

aservicemanualpdf@yahoo.com