Full download: http://manualplace.com/download/honda-xl600-transalp-86-01-service-manual-eng/

HOW TO USE THIS MANUAL

Follow the Maintenance Schedule (Section 3) recommendations to ensure that the vehicle is in peak operating condition and the emission levels are within the standard set by U.S. Environmental Protection Agency and California Air Resources Board. 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 20 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 don't know the source of the trouble, go to section 21 TROUBLESHOOTING.

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1. GENERAL INFORMATION

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GENERAL SAFETY

AWARNING

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 that can cause loss of consciousness and may lead to death.

AWARNING

Gasoline is extremely flammable and is explosive under certain conditions. Work in a well ventilated area with the engine stopped. Do not smoke or allow flames or sparks in your working area or where gasoline is stored.

AWARNING

Inhaled asbestos fibers have been found to cause respiratory disease and cancer. Never use an air hose or dry brush to clean brake assemblies. Use an OSHA-approved vacuum cleaner or alternate method approved by OSHA designed to minimize the hazard caused by airborne asbestos fibers.

AWARNING

- The battery gives off explosive gases; keep sparks, flames and cigarettes away. Provide adequate ventilation when charging.
- The battery contains sulfuric acid (electrolyte).
 Contact with skin or eyes may cause severe burns.
 Wear protective clothing and a face shield.
 - If electrolyte gets on your skin, flush with water.
 - If electrolyte gets in your eyes, flush with water for at least 15 minutes and call a physician.
- · Electrolyte is poisonous.
 - If swallowed, drink large quantities of water or milk and follow with milk of magnesia or vegetable oil and call a physician.

CAUTION

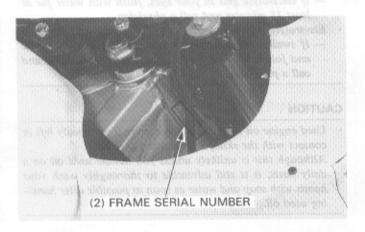
 Used engine oil may cause skin cancer if repeatedly left in contact with the skin for prolonged periods.
 Although this is unlikely unless you handle used oil on a daily basis, it is still advisable to thoroughly wash your hands with soap and water as soon as possible after handling used oil.

SERVICE RULES

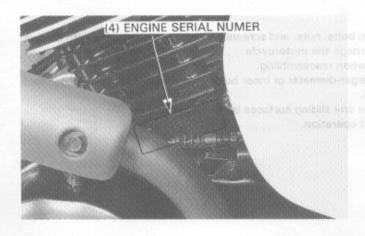
- Use genuine HONDA or HONDA-recommended parts and lubricants or their equivalent. Parts that do not meet HONDA's
 design specifications may damage the motorcycle.
- 2. Use the special tools designed for this product.
- Use only metric tools when servicing this motorcycle. Metric bolts, nuts, and screws 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.
- When tightening a series of bolts or nuts, begin with the 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.

MODEL IDENTIFICATION

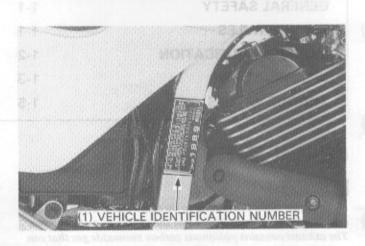




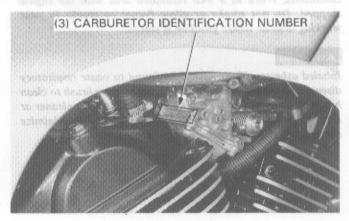
The frame serial number is stamped on the right side of the steering head.



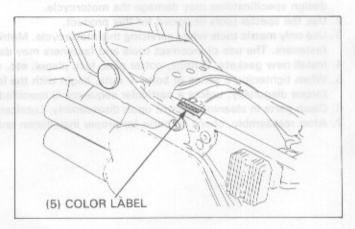
The engine serial number is stamped on the lower right side of the rear cylinder.



The vehicle identification number (VIN) is on the right side of the frame pipe.



The carburetor identification number is on the front carburetor body (right-side).



The color label is attached to the right frame tube under the seat. When ordering a color coded part, always specify its designated color code.

SPECIFICATIONS

	ITEN	Λ		SPECIFICATIONS		
		TOTRIUGIRO IBL	ib , svlsv no	SPECIFICATIONS	ARBURETOR	
Oil pressure switch Spark plug Engine oil drain be Oil filler Fuel cup	Seat height Ground clearance Dry weight			850 mm (33.5 in) 225 mm (8.9 in) 181 kg (399.0 lb)	REMARKS soulest	
FRAME Type Front suspension, travel Rear suspension, travel Front tire size		Semi double cradle Telescopic fork, 200 mm (7.9 in) Swing arm/Shock absorber, 187 mm (7.4 90/90-21 54S 130/80-17 65S	in)			
Oil pass pipe bolt	Cold tire	Up to 90 kg	Front	29 psi (2.00 kg/cm², 200 kPa)		
3_4_5	pressures (200 lbs		Rear	29 psi (2.00 kg/cm², 200 kPa)	DO THE	
Tryvisel bott		Up to vehicle	Front	29 psi (2.00 kg/cm², 200 kPa)	MATERIAL IN	
Starter clutch ton	bolt	capacity load	Rear	29 psi (2.00 kg/cm², 200 kPa)	Incident emilia	
Cometall holder ON Cylinder e (ye hear	Fuel capacity Fuel reserve capacity Caster angle Trail			Hydraulic disc Internal expanding shoes 18 liters (4.8 US gal, 4.0 Imp gal) 2.9 liters (0.77 US gal, 0.64 Imp gal) 28° 108 mm (4.3 in) 549 cm³ (185.7 US oz, 19.3 Imp oz)		
ENGINE Cam chall market both Commending road of Bearing and plate Timing hole dag Crankcase hole da Galarshift spindle Startar motor calls Drive aprocket Cylinder stud both Crankcase cover	Type Cylinder arrangement Bore and stroke Displacement Compression ratio Valve train Oil capacity Lubrication system Air filtration Cylinder compression Intake valve Opens Closes Exhaust valve Opens Closes			Water cooled 4-stroke 2 cylinders, 52°V 75.0 x 66.0 mm (2.95 x 2.60 in) 583.2 cm³ (35.59 cu in) 9.2 : 1 Silent, multi-link chain drive and OHC with 2.8 lit (2.96 US qt, 2.46 lmp qt) after disas 2.2 lit (2.32 US qt, 1.94 lmp qt) after drain Forced pressure and wet sump Paper filter 1177 kPa (12.0 kg/cm², 171 psi) 10° (BTDC) 40° (ABDC) 40° (ABDC) 10° (ATDC) 0.15 mm (0.006 in) 0.20 mm (0.008 in) 59.5 kg (131.17 lb)	ssembly	

	ITEM		SPECIFIC	ATIONS
CARBURETOR	Type I.D. number Main jet Pilot screw opening Float level Idle speed		Piston valve, dual carburetor VDFHA <vdfja> FRONT: #120 REAR: #120 2-1/2 turns out 7 mm (0.28 in) 1,300 ± 100 rpm</vdfja>	the laterally traffic to the lateral traffic traffic to the lateral traffic traffi
DRIVE TRAIN Clutch Transmission Primary reduction Final reduction Gear ratio I Gear ratio II Gear ratio IV Gear ratio V Gear shift pattern		Wet, multi-plate 5-speed constant mesh 1.888 (68/36) 3.133 (47/15) 2.571 (36/14) 1.777 (32/18) 1.380 (29/21) 1.125 (27/24) 0.961 (25/26) Left foot operated return systems	em, 1-N-2-3-4-5	
ELECTRICAL	Ignition Ignition timing Initial Full advance Alternator Battery capacity		DC-CDI 10° BTDC at idle 30° BTDC at 4,500 rpm .AC GENERATOR 0.31 kw/5,0 12V 12AH	000 rpm
	Spark plug		NGK	ND
		Standard	DPR8EA-9	X24EPR-U9
		For cold climate (below 5°C/41°F)	DPR7EA-9	X22EPR-U9
		For extended high speed driving	DPR9EA-9	X27EPR-U9
	Spark plug gap Fuse Main Sub Starting system Headlight Position light Turn signal light Stop & taillight Meter lights Indicator light Neutral High beam Turn signal Oil warning		0.8-0.9 mm (0.031-0.035 30A 10A x 3 15A	in)
			Electrical stater 12V 60/55W	

TORQUE VALUES

ENGINE

ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N-m (kg-m, ft-lb)	REMARKS
Oil pressure switch	1	2 01	12 (1.2, 9)	Apply sealant
Spark plug	1	12	14 (1.4, 10)	turn thoispand line
Engine oil drain bolt	1	14	35 (3.5, 25)	alod band sole relevant
Oil filter	1	20	10 (1.0, 7)	sust pipe joint nut con
Fuel cup	041	24	4 (0.4, 2.9)	flar mounting bolt
Valve adjusting screw lock nut	6	0 7 01	23 (2.3, 17)	Apply oil
Drum stopper plate mounting bolt	-E1100	6	12 (1.2, 9)	Apply locking agent
Primary drive gear mounting bolt	100pgy-9	12	90 (9.0, 65)	UBS bolt
Oil pump driven sprocket bolt	127	6 8	15 (1.5, 11)	(v) stool yaire langile
Clutch lock nut	1 1	18	130 (13.0, 94)	ERBRGI reggu radelb
Clutch lifter plate bolt	011	6 8	10 (1.0, 7)	palif a
Oil pass pipe bolt (7 mm)	2	7	10 (1.0, 7)	rayoo duri leedw n
(8 mm)	1	8	23 (2.3, 17)	plant to
Flywheel bolt	5 1	12	130 (13.0, 94)	Left-hand threads/ UBS bolt
Starter clutch torx bolt	3	8	30 (3.0, 22)	Apply locking agent
Cylindr head cover bolt	4	6 8	10 (1.0, 7)	Special bolt
Camshaft holder (8 mm bolt)	6	8 78	23 (2.3, 17)	riod man delig
(8 mm nut)	2	8	23 (2.3, 17)	stod labora William
(6 mm bolt)	4	28 8	10 (1.0, 7)	eronado percino adiuntera
Cylinder head (10 mm nut)	8	10	48 (4.8, 35)	01000A must been
(8 mm bolt)	4	8	23 (2.3, 17)	BOODDO TENOCHER YE
(8 mm nut)	882	8	23 (2.3, 17)	ct absorber lower in
(6 mm bolt)	2	6 08	10 (1.0, 7)	ol points applied for
Cam sprocket bolt	4	7	23 (2.3, 17) flod	introupm and parties
Cam chain tensioner mounting bolt	4	6	10 (1.0, 7)	10300
Connecting rod bearing cap nut	804	9 21	34 (3.4, 25)	mis pniwe-or-me som
Bearing set plate of the 2	881	6 01	10 (1.0, 7)	Apply locking agent
Timing hole cap solding	881	14 DI	10 (1.0, 7)	Apply MoS2 grease
Crankcase hole cap	8.81	30 8	15 (1.5, 11)	Apply MoS2 grease
Gearshift spindle return pin	12.1	8 8	23 (2.3, 17)	7777772 370000
Starter motor cable	86.2	6 01	10 (1.0, 7)	thiol sent as
Drive sprocket	VI 2	6 01	10 (1.0, 7)	CITTURE THE STREET
Cylinder stud bolt (10 x 193.5 mm)	2	10 8	40 (4.0, 29)	and tenional and
(10 x 197 mm)	6	10 01	40 (4.0, 29)	flod another
(8 x 197 mm)	2	8 8	25 (2.5, 18)	find toylo sen
Crankcase cover bolt (6 x 35 mm)	012	6 01	12 (1.2, 9)	In toylo boars of
(6 x 45 mm)	13	6 81	12 (1.2, 9)	Lyalva lock nut
Stator socket bolt IOS T.S	11.4	6 8	12 (1.2, 9)	filed entrantmakers that I
Thermostatic switch	681	8	18 (1.8, 13)	step holder translate

FRAME

ITEM		Q'TY	THREAD DIA. (mm)	TORQUE N·m (kg-m, ft-lb)	REMARKS
Side cover		2	6	4.3 (0.43, 3)	Section Constitution
Lower cowling	3	2	6	10 (1 0 7)	
Seat bolt		2	8	10 (1.0, 7)	
Air cleaner case		4	mum 8 6	(8 88 10 (1.0, 7)	
Exhaust pipe protectors	mm	6	mm 8 6	17 .012 (1.2, 7)	
Choke lever			w flod 6	10 (1.0, 7)	
	olt and nut olt, nut		mm 01	36 (3.5, 26) 55 (5,6, 40)	12 mm bolt and nut

FRAME

ITEM	ITEM	Q'TY	THREAD DIA. (mm)	TORQUE N·m (kg-m, ft-lb)	REMARKS
Rear axle nut	el Poden	1	16	95 (9.5, 69)	
Spokes (front/rear)		M aue n	B.C. 3.5	3.8 (0.38, 2.7)	Man
Swingarm/engine pivot n	ut	1	14	110 (11.0, 80)	Self-locking
Engine mounting nut	(upper/lower)	2	10	55 (5.5, 40)	dothys awarens i
Engine bracket nut		1 2	8	27 (2.7, 20)	pula shap
Exhaust pipe band bolt		1351	8	22 (2.2, 16)	flod night lie enlor
Exhaust pipe joint nut		4	8	27 (2.7, 20)	Cap nut
Muffler mounting bolt	(front)	1 1	8	40 (4.0, 29)	mus les
	(rear)	DES1	10	65 (6.5, 47)	With carrier
Rear carrier bolt	(front/left)	112	8	45 (4.5, 33)	tuom atala magaste mus
	(rear)	0 2	8 9	27 (2.7, 20)	drauger magazith
Turn signal stay bolt		2	8	27 (2.7, 20)	Il pump driven aprockat
Handlebar upper holder		004	8	26 (2.6, 19)	lutch lock nut
Brake disc		6	8	40 (4.0, 29)	Apply oil
Front wheel hub cover		013	4	1.5 (0.15, 1.1)	l) flod agig sang li
Front axle		ES1	16	65 (6.5, 47)	District Control
Axle holder nut		4	6	12 (1.2, 9)	tlod leartwy
Fork slider socket bolt		2	8	20 (2.0, 14)	
Fork leg pinch bolt	(upper)	4	8	27 (2.7, 20)	seriar clutch tors bolt
Special bolt	(lower)	4	8	35 (3.5, 25)	slind resed cover bolt
Fork tube cap bolt	offer of the first	2	37	23 (2.3, 17)	II mbled Parlama
Gearshift pedal bolt		1	6	10 (1.0, 7)	-
Steering bearing adjustm	ent nut	011	26	3 (0.3, 2.2)	Tighten the nut with the
Steering stem nut	280 103	B-1	24	100 (10.0, 72)	steering stem pushed up
Driven sprocket nut		6	10	44 (4.4, 32)	Apply oil
Shock absorber lower me	ount lock nut	1231	14	68 (6.8, 49)	Apply locking agent
Shock absorber spring lo		071	50	90 (9.0, 65)	rippiy foothing agent
Shock absorber mounting		SE LU		50 (5.0, 50)	their todowns was
	(upper/lower)	2	10	45 (4.5, 33)	Self-locking
Shock arm-to-swing arm		1	12	105 (10.5, 76)	Deli locking
Shock link-to-shock arm		011	10	65 (6.5, 47)	Self-locking
Shock link-to-frame nut	10. 71	011	10	65 (6.5, 47)	Self-locking
Bleed valve		12	8	5.5 (0.55, 4)	Con locking
Caliper bolt		123	8	27 (2.7, 20)	müter elbnicz zlidzne
Brake hose joint		011	10	35 (3.5, 25)	alidas autom satua
Brake joint nut		071	10	17 (1.7, 12)	holograp evit
Caliper bracket bolt		012	8	27 (2.7, 20)	flod buts rebally
Brake hose bolt		001	10	35 (3.5, 25)	The state making
Caliper pivot bolt		82.1	8	23 (2.3, 17)	
Side stand pivot nut		C11	10	40 (4.0, 29)	Self-locking
Fuel valve lock nut		1	18	40 (4.0, 29)	Johnson
Fuel tank mounting bolt		21	8 1	27 (2.7, 20)	tiod andon some
Rear step holder bracket		3	8	33 (3.3, 24)	harmostatic switch
Right foot peg		1	12	85 (8.5, 61)	
Left foot peg		1	10	65 (6.5, 47)	-Apply locking agent

Torque specifications listed above are for the most important tightening points. If a specification is not listed, follow the standards below.

STANDARD TORQUE VALUES

TYPE	TORQUE N-m (kg-m, ft-lb)	TYPE	TORQUE N·m (kg-m, ft-lb)
5 mm bolt and nut	5.3 (0.53, 4)	5 mm screw	4.3 (0.43, 3)
6 mm bolt and nut	10 (1.0, 7)	6 mm screw, 6 mm	etotoetoro enio trus
8 mm bolt and nut	22 (2.2, 16)	bolt with small head	9 (0.9, 7)
10 mm bolt and nut	35 (3.5, 25)	6 mm flange bolt and nut	12 (1.2, 9)
12 mm bolt and nut	55 (5.5, 40)	10 mm flange bolt, nut	40 (4.0, 29)

TOOLS

SPECIAL

DESCRIPTION	TOOL NUMBER	ALTERNATE TOOL	NUMBER	REFER TO SECTION
Oil filter wrench	07HAA-PJ70100	0000100/1000		2
Oil pressure gauge	07506-3000000	Equivalent Commercially	17 x 27 mm ;	2
Oil pressure gauge attachment	07510-4220100	available in U.S.A	1 6501	2
Valve clearance adjusting wrench	07908-KE90000	Valve adjust wrench	07908-KE90100	3
Vacuum gauge	07404-0030000	Vacuum gauge set	M937B-021-	ar holder
	ignered locations. Ti	Intern Hardbookson Street	XXXXX	3
Compression gauge	07305-0010000	DOCONOOL AND S		3
Clutch center holder	07923-KE10000	Clutch center holder	07HGB-001000A	7
Valve guide reamer (IN)	07984-2000001	Valve guide reamer	07984-200000C	THE BUILD WE
	A STATE OF THE PARTY OF THE PAR	h 0000100-1922	(U.S.A. only)	9
Valve guide reamer (EX)	07984-ZE20001	Valve guide reamer	07984-ZE2000C	100
		0000100-8410	(U.S.A. only)	9
Valve guide driver attachment (IN)	07943-MF50100	2000100-0017	nun 88 %	9
Valve guide driver attachment (EX)	07943-MF50200	0000N00-6857		9
Bearing remover set	07936-3710001	Not available in U.S.A.		myn EZ au
remover handle	07936-3710100	2348 - 0040900		11
-bearing remover set	07936-3710600	Naving - 5010500 - 9777	()	reposition grates
-remover sliding weight	07741-0010201	Remover weight	07936-3710200	in States September
Bearing driver attachment	07HMF-MM90400	001 D1 00 - 23 EZ	Malerna Tom 860s.	11
ork seal driver	07947-KA50100	0050900-3947		13
Fork seal driver attachment	07947-KF00100	17718-003040D - ERMANN	30 x 32 mm	13
Steering stem socket	07916-3710100	7748 - 00503000 P nvallable	hand, 17, mm	13
Ball race remover	07953-MA00000	Adjustable bearing remover	07736-A01000A	13
Steering stem driver	07946-4300100	Steering stem dirver	07946 - MB00000 with GN HT54	13
Needle bearing driver	07946-KA50000	0030300-3655		14
Driver shaft	07946-MJ00100	2460 0010700 bnn	mn1 85 x	14
Snap ring pliers	07914-3230001			2, 15

^{*:} The tools marked """ are new for this model.

Curter holder UN S.E.mm

Corter holder UN S.E.

COMMON

DESCRIPTION	TOOL NUMBER	ALTERNATE TOOL	NUMBER	REFER TO SECTION
Wrench, 10 x 12 mm	07708-0030200	Equivalent Commercially	2 71 HOTTHRS	E30 3
Spanner C, 5.8 x 6.1 mm	07701-0020300	available in U.S.A	nh n-H-Inde	3
Float level gauge	07401-0010000	734AA - P.170100		tonerse 4smillion
Lock nut wrench, 17 x 27 mm	07716-0020300	PERSONAL PROPERTY OF THE PROPE	90	pep mur7 mg HO
Extention bar	07716-0020500	- Equivalent commercially	treimiteats eg	us a substance TO
	VII rionerey to	available in U.S.A.	djusting wranch	7, 13, 14
Gear holder	07724-0010100	- Not available in U.S.A.	(D) Lab nut	oguso 7:cuseV
Rotor puller	07733-0020001	40.14.0.	(8)	8
Flywheel holder	07725-0040000	10 0000166 48667	(Z) VVZIII legit	8
Valve guide driver, 5.5 mm (IN)	07742-0010100	PER HILLSONG COURSE den	3 sable	9 9
Valve guide driver, 6.6 mm (EX)	07742-0010200	- Valve guide driver	07942-6570100	9
Valve spring compressor	07757-0010000	9.179.7	101	9
Driver	07749-0010000	7984 ZE20001 Value und	DCE 1800	11, 13, 14
Attachment, 42 x 47 mm	07746-0010300			11, 13, 14
Attachment, 52 x 55 mm	07746-0010400	2010a3M 24M	or attachment lifti	valve 11 ide den
Pilot, 20 mm	07746-0040500	7943 Mrso200	X31 memdests se	one so 11 svaV
Pilot, 22 mm	07746-0041000	resource to the light of the light of	760	Search Parrove
Pilot, 25 mm	07746-0040600	cese Strongo	1	princt roll trees =
Bearing remover shaft	07746-0050100	Equivalent commercially	708.19	13, 14
Bearing remover head, 15 mm	07746-0050400	available in U.S.A.	C Vetalew o	13
Attachment, 32 x 35 mm	07746-0010100	CONCENSION OF THE PROPERTY OF	5 menutoern	13, 14
Pilot, 15 mm	07746-0040300	32 00/08AX-17865		13
Lock nut wrench, 30 x 32 mm	07716-0020400	TEquivalent commercially	di mannelogate	13
Bearing remover head, 17 mm	07746-0050500	available in U.S.A.	Trolsses.	14
Pin spanner	89201-KA4-811	AREA MACCOCCO Adjusted	Tooring,	14
Pin spanner	89202-KA4-811	1 N8 4300 100 Stemman	KI WAS	14
Attachment, 37 x 40 mm	077460010200		2 Apply of	14
Pilot, 17 mm	07746-0040400		Apole, in	14
Attachment, 24 x 26 mm	07746-0010700	00 (00/08 18/08	(5)	14
TESTER:		28143230001		Sono rico ofices
Digital multi-tester (KOWA)	07411-0020000	45 (8.9	or KS-AHM-32-	16, 17, 18, 19
		105 170 5	003 (U.S.A. only)	THE PERSON WITH A
Circuit tester (SANWA) or	07308-0020000	10 65 (6.6	7 Self lock	16, 17, 18, 19
Circuit tester (KOWA)	TH-5H	10 65 6.5	(7) Salf-love	16, 17, 18, 19
Honda battery tester	07GMJ-0010000	K 8 10 5 E	41	16
Christie battery charger	MC1012/2	U.S.A. only		16

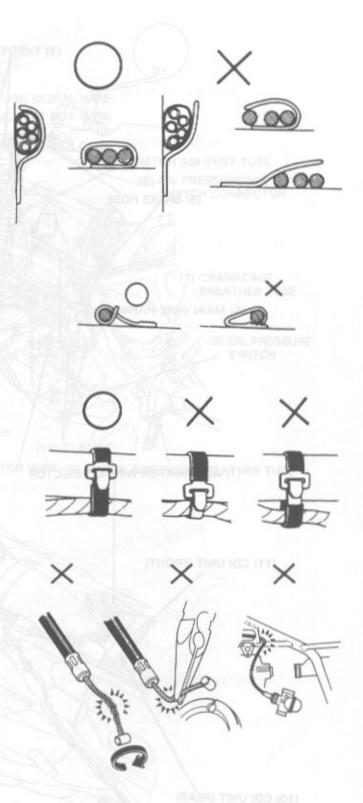
VALVE SEAT CUTTER

	DESCRIPTION	TOOL NUMBER	REFER TO SECTION
Cutter holder	IN 5.5 mm	07781-0010101	Self-lecking -1
	EX 6.6 mm	07781-0010201	91
Float cutter	IN 28 mm (32°)	07780-0012100	D) = Tricaco ine
	EX 35 mm (32°)	07780-0012300	4) I DEPENDENT OF THE PROPERTY OF
Interior cutter	IN 30 mm (60°)	07780-0014000	9
	EX 37.5 mm (60°)	07780-0014100	7 PADDIX locking age
Seat cutter	IN 27.5 mm (45°)	07780-0010200	the ition is not listed, follow the s
	EX 35 mm (45°)	07780-0010400	June 1 101 - 1100 Tollow the s

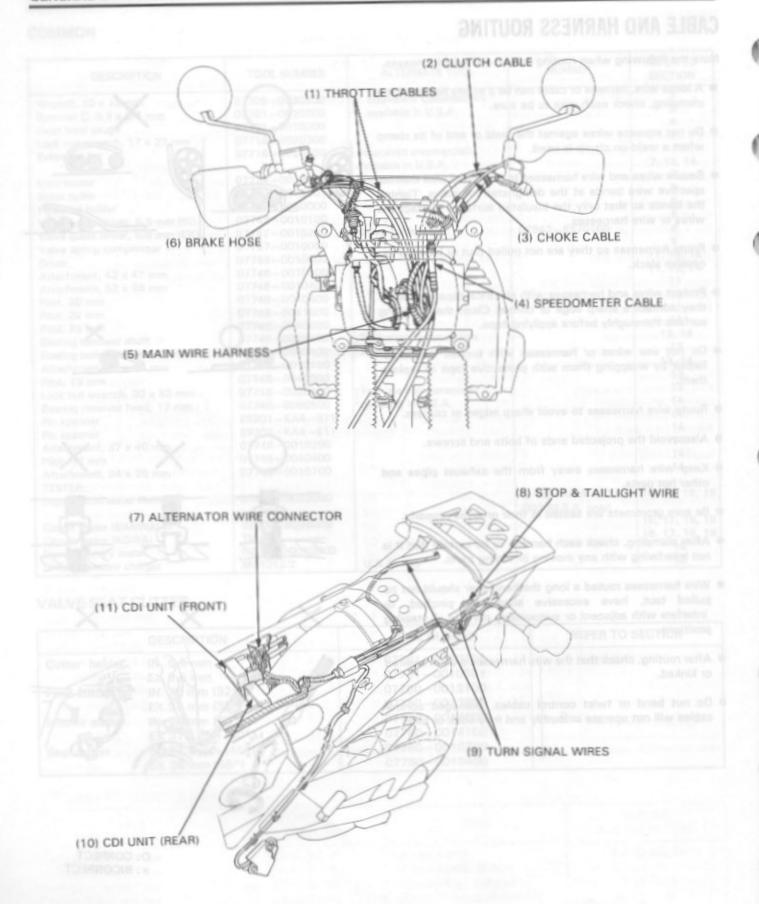
CABLE AND HARNESS ROUTING

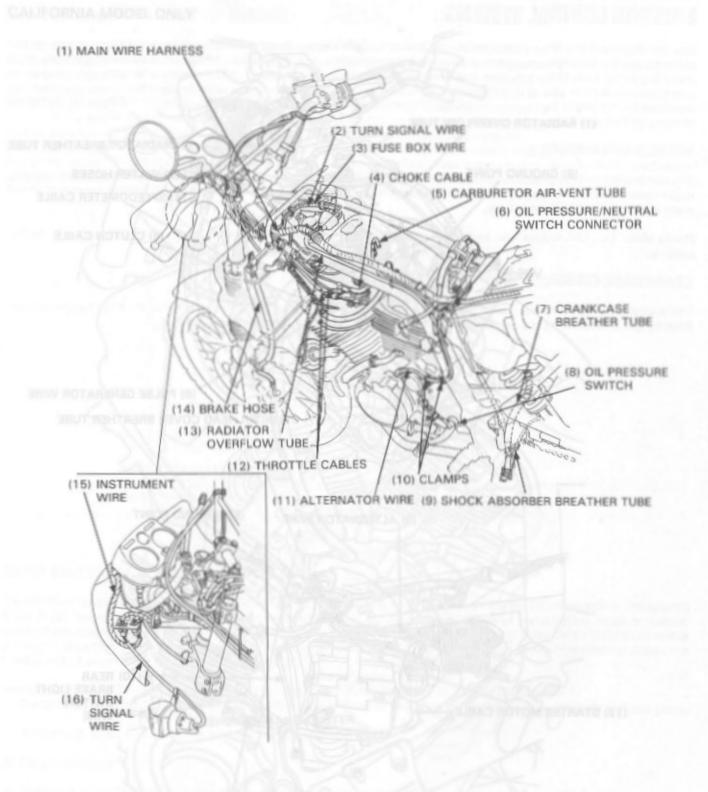
Note the following when routing cables and wire harnesses.

- A loose wire, harness or cable can be a safety hazard. After clamping, check each wire to be sure.
- Do not squeeze wires against the weld or end of its clamp when a weld-on clamp is used.
- Secure wires and wire harnesses to the frame with their respective wire bands at the designated locations. Tighten the bands so that only the insulated surfaces contact the wires or wire harnesses.
- Route harnesses so they are not pulled taut or have no excessive slack.
- Protect wires and harnesses with electrical tape or tubes if they contact a sharp edge or corner. Clean the attaching surface thoroughly before applying tape.
- Do not use wires or harnesses with broken insulators.
 Repair by wrapping them with protective tape or replace them.
- Route wire harnesses to avoid sharp edges or corners.
- Also avoid the projected ends of bolts and screws.
- Keep wire harnesses away from the exhaust pipes and other hot parts.
- Be sure grommets are seated in their grooves properly.
- After clamping, check each harness to be certain that it is not interfering with any moving or sliding parts.
- Wire harnesses routed a long the handlebar should not be pulled taut, have excessive slack, be pinched, or interfere with adjacent or surrounding parts in all steering positions.
- After routing, check that the wire harnesses are not twisted or kinked.
- Do not bend or twist control cables. Damaged control cables will not operate smoothly and may stick or bind.

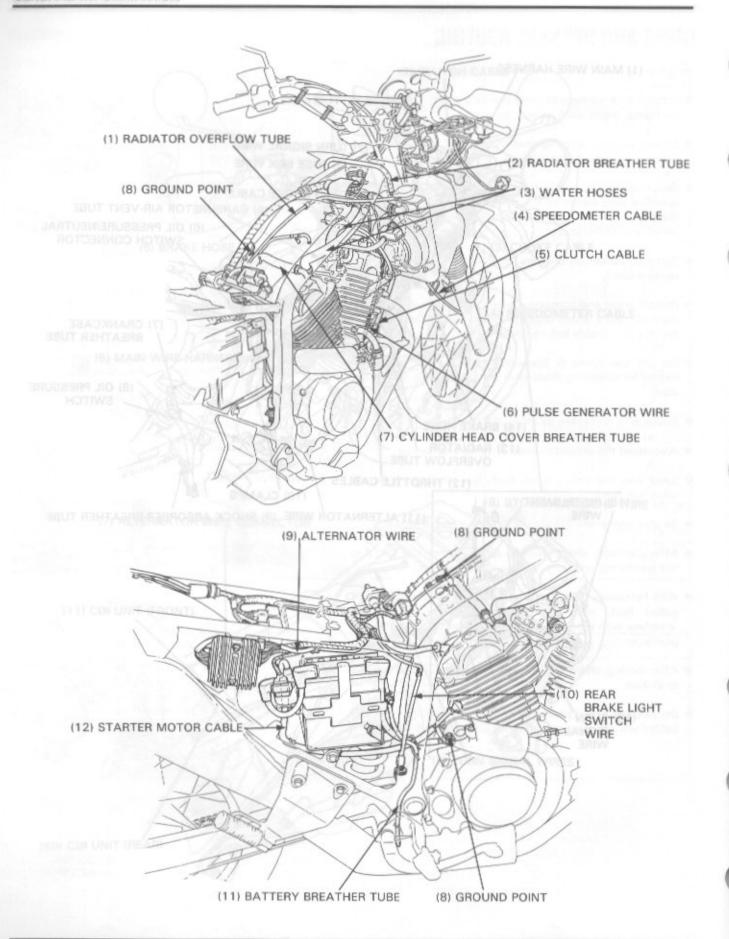


O: CORRECT
×: INCORRECT

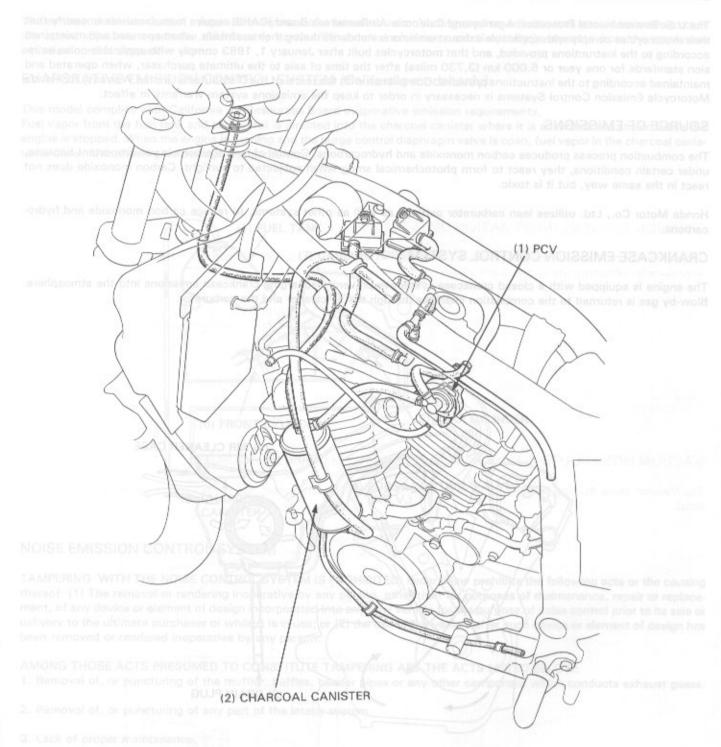




TY) BATTIRY BREATHER TUBE (BI GROUND POINT



CALIFORNIA MODEL ONLY ROLLSYSTEM ZMETRYZ 1007 MODEL ONLY ROLLSYSTEM



EMISSION CONTROL SYSTEMS

The U.S. Environmental Protection Agency and California Air Resources Board (CARB) 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 Motorcycle Emission Control Systems is necessary in order to keep the emissions system warranty in effect.

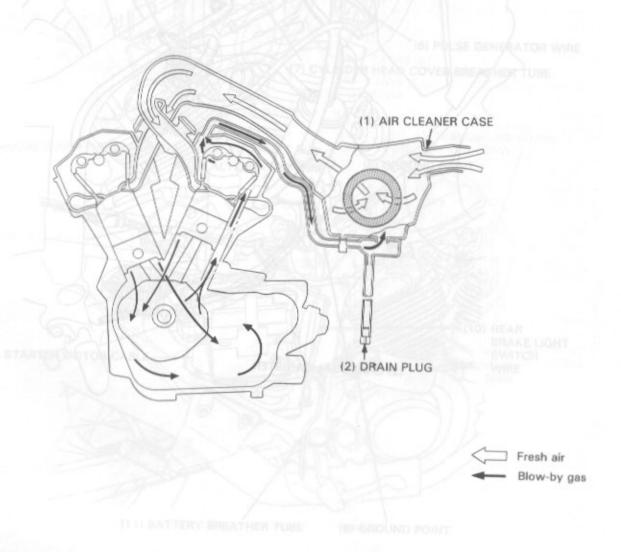
SOURCE OF EMISSIONS

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 carburetor 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 the carburetor.



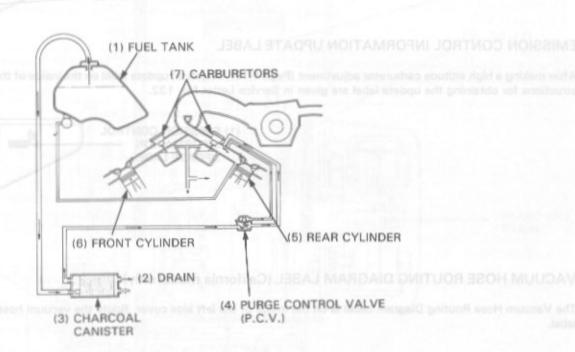
EXHAUST EMISSION CONTROL SYSTEM

The exhaust emission control system is composed of a lean carburetor 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.

EVAPORATIVE EMISSION CONTROL SYSTEM (California model only)

This model complies with California Air Resources Board evaporative emission requirements.

Fuel vapor from the fuel tank and carburetor is directed into the charcoal canister where it is adsorbed and stored while the engine is stopped. When the engine is running and the purge control diaphragm valve is open, fuel vapor in the charcoal canister is drawn into the engine through the carburetor.



NOISE EMISSION CONTROL SYSTEM

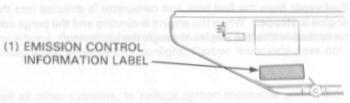
TAMPERING WITH THE NOISE CONTROL SYSTEM IS PROHIBITED: Federal law prohibits the following acts or the causing thereof: (1) The removal or rendering inoperative by any person, other than for purposes of maintenance, repair or replacement, of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use; or (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.
- Replacing any moving parts of the vehicle, or parts of the exhaust or intake system, with parts other than those specified by the manufacturer.

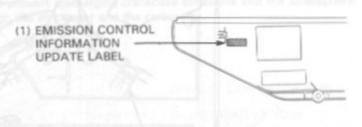
EMISSION CONTROL INFORMATION LABELS (U.S.A. only)

An Emission Control Information Label is located on the inside of the left side cover as shown. It contains basic tune-up specifications.



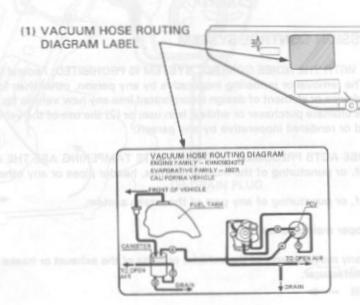
EMISSION CONTROL INFORMATION UPDATE LABEL

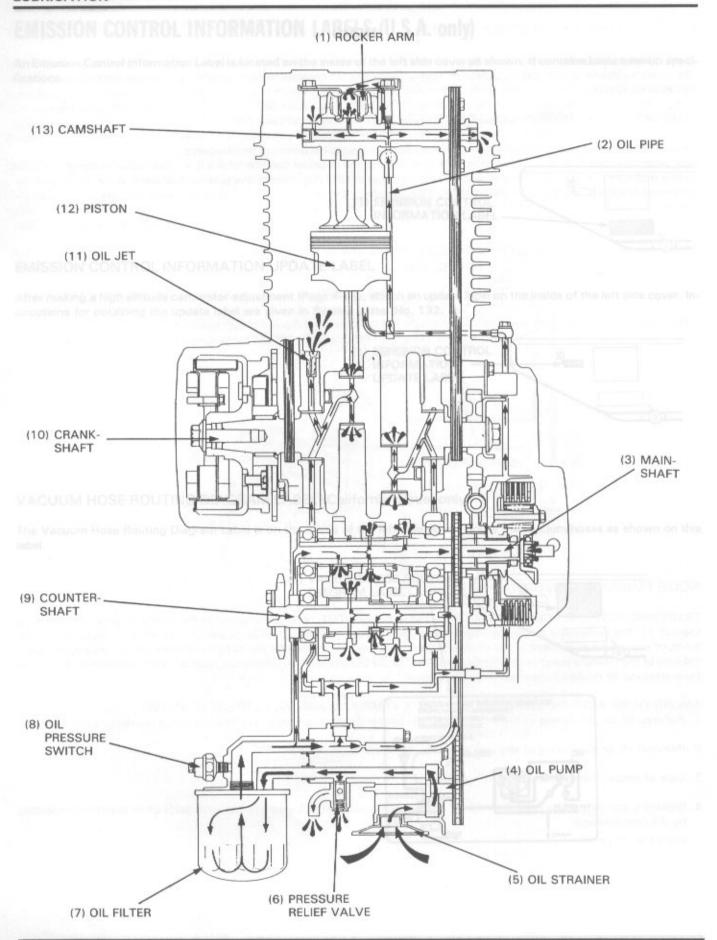
After making a high altitude carburetor adjustment (Page 4-19), attach an update label on the inside of the left side cover. Instructions for obtaining the update label are given in Service Letter No. 132.



VACUUM HOSE ROUTING DIAGRAM LABEL (California model only)

The Vacuum Hose Routing Diagram Label is on the inside of the left side cover. Route the vacuum hoses as shown on this label.





2. LUBRICATION

SERVICE INFORMATION	2-1	ENGINE OIL FILTER REPLACEMENT	2-4
TROUBLESHOOTING	2-2	OIL PRESSURE CHECK	2-4
ENGINE OIL LEVEL CHECK	2-3	OIL PUMP	2-5
ENGINE OIL CHANGE	2-3	LUBRICATION POINTS	2-10

SERVICE INFORMATION

GENERAL

It is necessary to remove the engine from the frame to service the oil pump.

CAUTION

Used engine oil may cause skin cancer if repeatedly left in contact with the skin for prolonged periods. Although this is unlikely
unless you handle used oil on a daily basis, it is still advisable to thoroughly wash your hands with soap and water as soon as possible after handling used oil.

SPECIFICATIONS

Oil capacity 2.8 lit (2.96 US qt, 2.46 Imp qt) after disassembly.

2.4 lit (2.54 US qt, 2.11 Imp qt) at oil filter and oil change.

2.2 lit (2.32 US qt, 1.94 Imp qt) after draining.

Recommended oil HONDA 4 stroke oil or equivalent

API service classification: SE or SF VISCOSITY: SAE 20 W-50/10 W-40

NOTE

Use SAE 10 W-40 oil when the outside temperature is below 0° C (32° F).

Other viscosities shown in the chart may be used when the average temperature in your riding area is within the indicated range.

Oil pump

ITEM	STANDARD	SERVICE LIMIT
Rotor tip clearance	0.15 mm (0.006 in)	0.20 mm (0.008 in)
Pump body clearance	0.15-0.22 mm (0.006-0.009 in)	0.35 mm (0.014 in)
Pump end clearance	0.02-0.07 mm (0.001-0.003 in)	0.10 mm (0.004 in)
Oil pressure	490-588 kPa (5.0-6.0 kg/cm², 71-85 psi) at 5,000 rpm	

TORQUE VALUES

Oil pressure switch	12 N·m (1.2 kg-m, 9 ft-lb)
Engine oil drain bolt	35 N·m (3.5 kg-m, 25 ft-lb)
Oil filter	10 N·m (1.0 kg-m, 7 ft-lb)

nda XI600 Transalp 86 01 Service Manual Eng

l download: http://manualplace.com/download/honda-xl600-transalp-86-01-service-manual-eng/

LUBRICATION

TOOLS

Special

Oil filter wrench

Oil pressure gauge

Oil pressure gauge attachment

Snap ring pliers

07HAA-PJ70100

07506-3000000 Equivalent commercially available in U.S.A.

07510-4220100

07914-3230001

TROUBLESHOOTING

Oil level too low

- · Normal oil consumption
- · External oil leaks
- Worn piston rings

Oil contamination

- · Oil not changed often enough
- Faulty head gasket
- Worn piston rings

Low oil pressure

- · Faulty oil pump
- · Clogged oil strainer
- Low oil level
- · Faulty pressure relief valve
- · Oil leaks

High oil pressure

- · Faulty pressure relief valve
- · Clogged oil filter or oil orifice

No oil pressure

- Too low oil level
- · Broken oil pump drive or driven sprockets
- · Broken oil pump drive chain
- Faulty oil pump
- Oil leaks