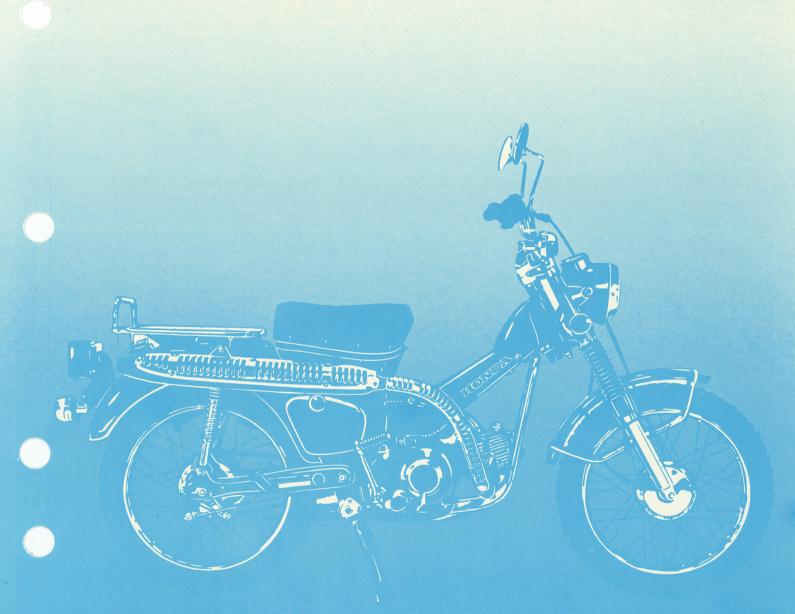
Official HIONIDA **SHOP MANUAL** CT90·110



CT90 '77-'79 CT110'80-'82

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INTRODUCTION

This shop manual contains service information and procedures for 1977 through 1979 CT90's and 1980 through 1982 Honda CT110's. Motorcycles manufactured after December 31, 1977 are equipped with emission controls. These are covered in this shop manual, in Section VII ('78½ EMISSIONS ADDENDUM).

CT110 service information begins on page 141.

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I SPECIFICATIONS

Items	Specifications				
DIMENSION					
Overall Length	1,870 mm (73.6 in)				
Overall Width	740 mm (29.1 in)				
Overall Height	1,060 mm (41.7 in)				
Wheel Base	1,220 mm (48.0 in)				
Seat Height	775 mm (30.5 in)				
Ground Clearance	165 mm (6.5 in)				
Dry Weight	90 kg (198.5 lb.)				
FRAME					
Туре	Back bone				
Front Suspension, Travel	Telescopic fork, 102 mm (4.0 in)				
Rear Suspension, Travel	Swing arm, 77 mm (3.0 in)				
Front Tire Size, Type	2. 75-17-4 PR Knobby, tire air pressure 1.75 kg/cm² (25 psi				
Rear Tire Size, Type	2. 75-17-4 PR Knobby, tire air pressure 2.25 kg/cm ² (32 psi				
Front Brake	Internal expanding shoes				
Rear Brake	Internal expanding shoes				
Fuel Capacity	5.5 lit. (1.4 U.S. gal. 1.21 Imp. gal.)				
Fuel Reserve Capacity	0.8 lit. (0.2 U.S. gal. 0.18 Imp. gal)				
Auxiliary Fuel Tank Capacity	2.3 lit. (0.6 U.S. gal. 0.54 Imp. gal)				
Caster Angle	63°				
Trail Length	75 mm (3 in)				
Front Fork Oil Capacity	125 - 135 cc (4.2 - 4.6 ozs.)				
	To fill dry fork assembly				
	130 - 140 cc (4.4 - 4.7 oz.)				
	To refill after draining				
	120 - 130 cc (4.1 - 4.4 oz.)				
ENGINE					
Туре	Air cooled 4-stroke O.H.C. engine				
Cylinder Arrangement	Single cylinder 75 inclined from vertial				
Bore and Stroke	50 x 45.6 mm (1.970 x 1.797 in)				
Displacement	89.5 cc (5.46 cu in)				
Compression Ratio	8.2 : 1				
Carburetor, Venturi Dia.	Piston valve type, venturi dia. 16 mm (0.64 in)				
Valve train	Chain driven over head camshaft				
Oil Capacity	0.9 lit. (0.95 U.S. qt. 0.80 lmp. qt.)				
Lubri cation System	Forced pressure and wet sump				
Fuel Required	Low-lead or regular gasoline of 91 research octane				
	(86 pump octane) or higher				
Air Filtration	Oiled polyurethane foam filter				

SPECIFICATIONS



[] k9 (1978) model

Items	Specifications
Intake Valve : Opens	5° BTDC
Closes	20° ABDC
Exhaust Valve: Opens	25° BBDC
Closes	5° ATDC
Valve Clearance	IN/EX. 0.05 mm (0.002 in)
Engine Dry Weight	24 kg (52.9 lb.)
Air Screw Opening	1
Pilot Screw Opening	[1-1/4]
Idle Speed	1,300 rpm
DRIVE TRAIN	
Clutch	Wet multi plate automatic
Transmission	4-speed constant mesh
Primary Reduction	3.722
Gear Ratio I	2.538
11	1.611
Ш	1.190
IV	0.958
Auxiliary Transmission High/Low	1.000 / 1.867
Final Reduction	3.000, drive sprocket 15 T, driven sprocket 45 T
Gear Shift Pattern	Left foot operated return system
ELECTRICAL	
Ignition	Battery and ignition coil
Ignition Advance :	1,300 rpm
" F " mark	10° TDC
Max. advance	26° – 32°
Starting System	Kick starter
Alternator	A.C. Generator 0.062 kw/6,000 rpm
Battery Capacity	6 V — 5.5 AH
Fuse Capacity	15 amp.
Spark Plug	U.S.A. model
	D8HA (NGK), X24FS-U (ND)
	Canada model
	DR8HS (NGK), X24FSR-U (ND)
Condenser Capacity	0.27 — 0.33 μ F



II SERVICE INFORMATION

1.SERVICE DATA

ENGINE	Unit: mm (in.)

	l	tem		Sta	ndard	Service Limit		
			I.D.	50.00-50.01	(1.9685 — 1.9689)	50.10	(1.9724)	
Cylinder		İ	Taper	0 - 0.01	(0 - 0.0004)	0.05	(0.002)	
•		Ī	Out-of-round	0 - 0.01	(0 - 0.0004)	0.05	(0.002)	
Piston O. D.				49.97-49.99	(1.9673 - 1.9681)	49.80	(1.9606)	
Piston pin I. D.	•			14.002-14.008	(0.5513 - 0.5515)	14.04	(0.5528)	
Piston pin O. D).			13.994-14.000	(0.5509 - 0.5512)	13.960	(0.5496)	
			Top/second	0.15-0.35	(0.006 - 0.014)	0.50	(0.020)	
Piston ring end	gap	Ī	Oil	0.15-0.40	(0.006 - 0.016)	0.50	(0.020)	
Piston-to-pistor	n ring clea	rance	Top/second	0.010-0.045	(0.0004 - 0.0018)	0.12	(0.0047)	
		Ī	Oil	0.010-0.045	(0.0004 - 0.0018)	0.12	(0.0047)	
Piston ring thic	kness		Top/second	1.175-1.190	(0.0463 - 0.0469)	1.130	(0.0445)	
		ľ	Oil	2.475-2.490	(0.0974 - 0.0980)	2.43	(0.957)	
	_		IN	5.455-5.465	(0.2148 - 0.2152)	5.435	(0.2139)	
Valve stem O.	D.		EX	5.435-5.445	(0.2140 - 0.2144)	5.415	(0.2132)	
Valve guide I.	D.		IN/EX	5.475-5.485	(0.2157 - 0.2161)	5.525	(0.2175)	
			IN	0.010-0.030	(0.0004 - 0.0012)	0.08	(0.0032)	
Valve-to-valve	guide clea	rance	EX	0.030-0.050	(0.0012 - 0.0020)	0.10	(0.0040)	
	T		Outer	31.8	(1.252)	30.6	(1.205)	
	Free length	ngth	Inner	26.5	(1.043)	25.5	(1.004)	
Valve spring	Preload	Preload/length	Outer kg/mm (lbs./in.)	19-21/22.3	(41.8–46.21/0.878)			
		,	Inner kg/mm (lbs./in.)	9.5-10.5/18.4	(20.9–23.1/0.724)			
Valve face wid	th		IN/EX	1.2-1.5	(0.048 - 0.060)	1.8	(0.072)	
Valve seat wid			IN/EX			1.6	(0.064)	
Cam height			IN/EX	24.90-24.98	(0.9803 - 0.9835)	24.6	(0.9685)	
Carri Hongine			R. End	17.927—17.938 (0.7058 — 0.7062)		17.90	(0.7047)	
Camshaft O. D).		L. End	25.917 – 25.930 (1.0204 – 1.0209)		25.90	(1.0197)	
			R. End	18.000-18.018	(0.7087 - 0.7094)	18.05	(0.7106)	
Camshaft end	bearing I.	D.	L. End	26.000-26.020	(1.0236 - 1.0244)	26.05	(1.0256)	
Clutch disc thi	ckness	1		2.8-2.9	(0.1102 - 0.1142)	2.4	(0.0945)	
Clutch plate th				1.93-2.07	(0.0760 - 0.0815)	1.85	(0.0729)	
Clutch plate w				0.2	(0.008)	0.5	(0.02)	
Olutor, plate ii		Free le	enath	27.0	(1.0630)	26.0	(1.0236)	
Clutch spring			d/length kg/mm (lbs/in)	10-10.4/15	(22-22.9/0.591)			
Crankshaft rur	nout (at	t ends)		0 - 0.015	(0 - 0.0006)	0.10	(0.0040)	
			Axial	0.10-0.35	(0.004 - 0.019)	0.8	(0.032)	
Crankshaft bearing play			Radial	0. — 0.01	(0 0.0004)	0.05	(0.002)	
Connecting rod small end I. D.		14.012—14.028	(0.5517- 0.5523)		0 (0.5531)			
Connecting ro			arance	0.10-0.35	(0.004 - 0.019)	0.8	(0.032)	
Connecting ro				0 - 0.01	(0 - 0.0004)	0.05	(0.002)	
Clutch drive go				24.00-24.02	(0.9449 – 0.9457)	24.15	(0.9508)	
Clutch center)		22.0–22.1	(0.8661 – 0.8701)	21.85	(0.8602)	
			ft clearance	0.005-0.047	(0.0002 - 0.0019)	0.15	(0.0060)	
Clutch center guide-to-crankshaft clearance			, colour unite	U.UUU—U.UT/	(3.0002 - 0.0010)	J. 1 J	,5.55507	

SERVICE DATA



Item		Star	Service Limit		
Rocker arm shaft O. D.		9.972-9.987	(0.3926 - 0.3932)	9.92	(0.3906)
Rocker arm I. D.		10.000-10.015	(0.3937 - 0.3943)	10.10	(0.3976)
Primary drive gear I. D.		24.00-24.02	(0.945 - 0.946)	24.15	(0.951)
Crankshaft-to-clutch center gu	ide clearance	0.005-0.047	(0.0002 - 0.0019)	0.15	(0.060)
Tensioner spring free length	Spring A	65	(2.6)	60	(2.4)
rensioner spring free length	Spring B	49.8	(19.92)	40	(1.6)
	Inner-to-outer rotor clearance	0.15	(0.006)	0.2	(800.0)
Oil pump	Outer rotor-to-body clearance	0.15-0.20	(0.0060 0.0080)	0.25	(0.010)
	Rotor-to-cover clearance	0.02-0.07	(0.0008 - 0.0028)	0.12	(1.0047)
Shift fork I. D.		42.00	(1.6535)	42.1	(1.6575)
Shift fork ends thickness	4-1-2	5.96-6.04	(0.2346 - 0.2378)	5.70	(0.2244)
Shift drum O. D.		41.950-41.975	(1.6516 — 1.6526)	41.80	(1.6457)
Shift drum groove width		6.1-6.2	(0.2402 - 0.2441)	6.4	(0.2520)
Shift fork-to-shift drum clearance		0.05	(0.0020)	0.2	(0.008)
Auvilianu transmission	Idler gear shaft O. D.	12.966-12.984	(0.5105 - 0.5112)	12.85	(0.5140)
Auxiliary transmission	Idler gear I. D.	13.000-13.018	(0.5200 — 0.5207)	13.10	(0.5157)

FRAME

ltem		Star	Standard		
Front/rear axle shaft bend		0 — 0.05	(0 - 0.002)	0.2	(800.0)
	Axial	0 - 0.05	(0 - 0.002)	0.1	(0.004)
Front/rear wheel bearing play	Radial	0.0030.008	(0.0001 - 0.0003)	0.04	(0.0016)
Front/rear brake drum I. D.		110.0	(4.3307)	111.0	(4.3701)
	Face runout	0 - 0.5	(0 - 0.02)	1.0	(0.04)
Wheel rim	Eccentricity	0 - 0.5	(0 - 0.02)	1.0	(0.04)
Front fork spring	Free length	203	(8.0)	185	(7.3)
Rear shock absorber spring	Free length	223	(8.78)	207	(8.16)
Front fork piston O. D.		30.950-30.975	(1.219 — 1.220)	30.85	(1.215)
Front fork bottom case I. D.		31.000-31.039	(1.221 – 1.223)	31.10	(1.225)
Brake lining thickness		4.0	(0.16)	2.0	(80.0)

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2. TORQUE SPECIFICATIONS

ENGINE

Tightening point	Q'ty	Thread dia.	Torque	kg-m (lbs ft)
Cylinder head nut	4	8	2.0 2.5	(14.5 — 18.1)
Camshaft sprocket bolt	2	6	0.9 — 1.2	(6.5 — 8.7)
Cam chain guide roller bolt	1	6	0.9 — 1.4	(6.5 — 10.1)
Spark advancer bolt	1	6	0.8 — 1.2	(5.8 — 8.7)
Clutch lock nut	1	16	3.8 - 4.5	(27.4 – 32.5)
A. C. generator rotor bolt	1	8	2.6 - 3.2	(18.8 — 23.2)
A. C. generator stator bolt	3	6	0.8 - 1.2	(5.8 – 8.7)
Shift drum bolt	1	6	0.8 — 1.2	(5.8 – 8.7)

FRAME

Tightening point	Q'ty	Thread dia.	Torque	kg-m (lbs-ft)
Handlebars setting bolts	4	6	0.8 - 1.2	(5.8 - 8.7)
Steering stem nut	1	22	6.0 - 7.0	(43.4 — 50.7)
Front fork bolt	2	10	3.5 — 4.5	(25.3 – 32.6)
Steering bottom bridge bolt	2	8	1.8 – 2.5	(13.0 — 18.1)
Swingarm pivot bolt	1	10	4.0 - 6.0	(29.0 - 43.4)
Rear shock absorber upper nut	2	10	2.5 - 3.5	(18.1 — 25.3)
Rear shock absorber lower nut	2	8	2.5 — 3.5	(18.1 — 25.3)
Front axle nut	1	10	3.5 — 5.0	(25.3 — 36.2)
Rear axle nut	1	10	3.5 - 5.0	(25.3 — 36.2)
Rear axle sleeve nut	1	16	3.5 - 4.5	(25.3 — 32.6)
Driven sprocket bolt	4	8	1.8 — 2.5	(13.0 — 18.1)
Rear brake stop arm bolt	2	8	1.8 — 2.5	(13.0 — 18.1)
Engine hanger bolt	2	10	3.0 - 4.0	(21.7 — 29.0)
Step bar bolt	14	8	1.8 — 2.5	(13.0 — 18.1)

Torque specifications listed above are important tightening points. Others should be tightened to standard torque below.

Standard Torque Specifications

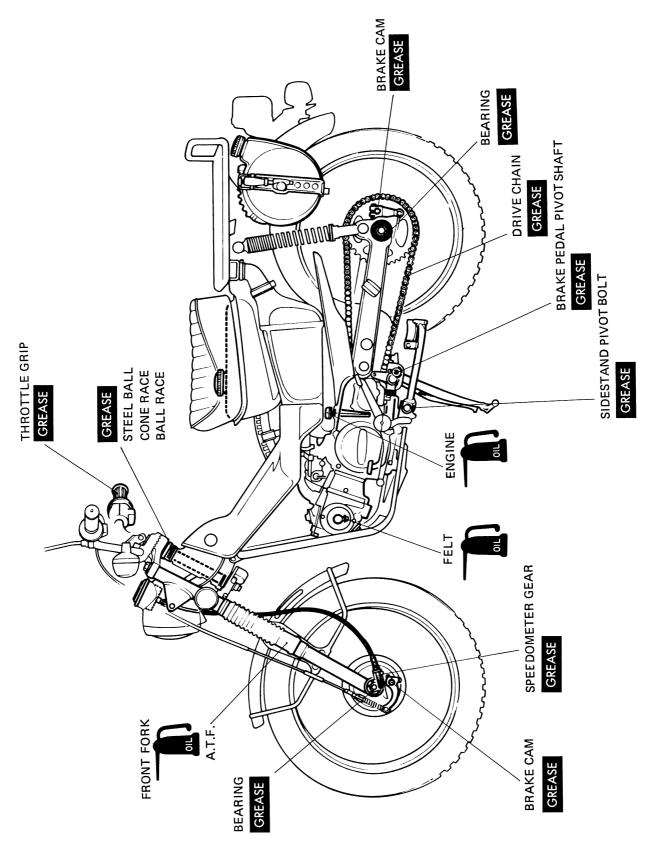
Type	Torque kg-m (lbs-ft)		Type	Torque kg-m (lbs-ft)	
5 mm bolt and nut	0.45 — 0.60	(3.3 – 4.3)	5 mm screw	0.35 - 0.50	(2.5 — 3.6)
6 mm bolt and nut	0.8 - 1.2	(5.8 – 8.7)	6 mm screw	0.7 - 1.1	(5.1 — 8.0)
8 mm bolt and nut	1.8 — 2.5	(13.0 — 18.1)	6 mm flange bolt and nut	1.0 - 1.4	(7.2 – 10.1)
10 mm bolt and nut	3.0 —4.0	(21.7 — 29.0)	8 mm flange bolt and nut	2.4 - 3.0	(17.4 — 21.7)
12 mm bolt and nut	5.0 ——6.0	(36.2 - 43.4)	10 mm flange bolt and nut	3.0 - 4.0	(21.7 – 29.0)

3. SPECIAL TOOLS



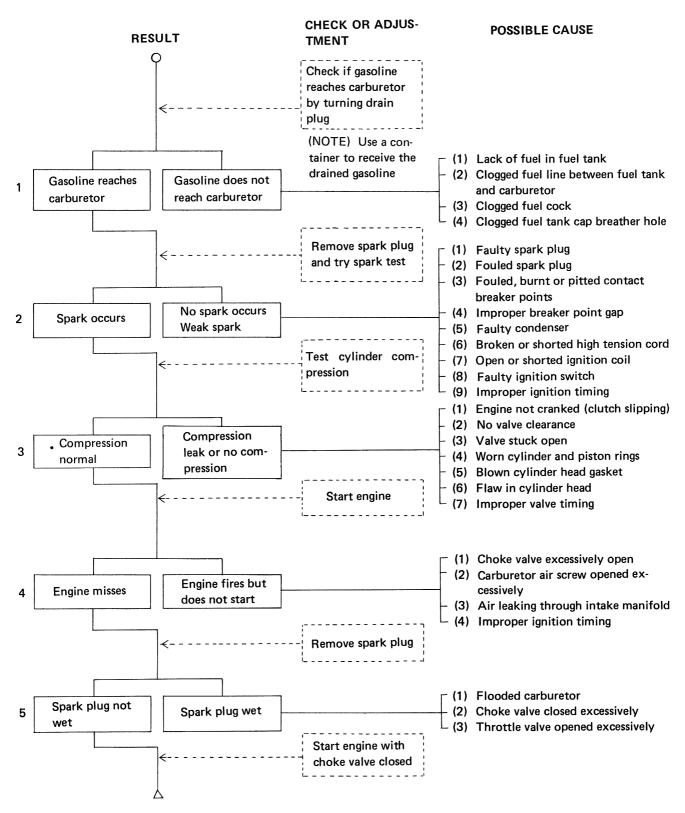
TOOL NAME	PART NO.	REFERENCE PAGE
Float valve gauge	07401 — 0010000	81
36mm pin spanner	07902 — 0010000	86
Tappet adjusting wrench	07908 — 0010000	24
Steering stem nut wrench	07915 — 0300000	86
16mm lock nut wrench	07916 — 3710000	58
Clutch outer holder	07932 — 0340000	58
Rotor puller	07933 — 2160000	69
Valve guide driver	07942 — 3290100	42
Valve guide driver	07942 — 1180100	42
Valve spring compressor	07957 — 3290001	41
Valve guide reamer	07984 — 0980000	42
Bearing driver	07949 — 3000000	85, 91
Bearing driver attachment	07945 — 0980000	85, 91
Bearing driver	07949 — 6110000	92
Bearing driver attachment	07945 — 3330100	92
Ball race driver	07944 — 1150001	86
Fork seal driver	07974 — 1180001	87
Oil seal guide	07974 — 1280000	43
Rear shock absorber dis/assembling tool	07959 — 3290000	93
Spring holder	07967 — 1150100	93
		1







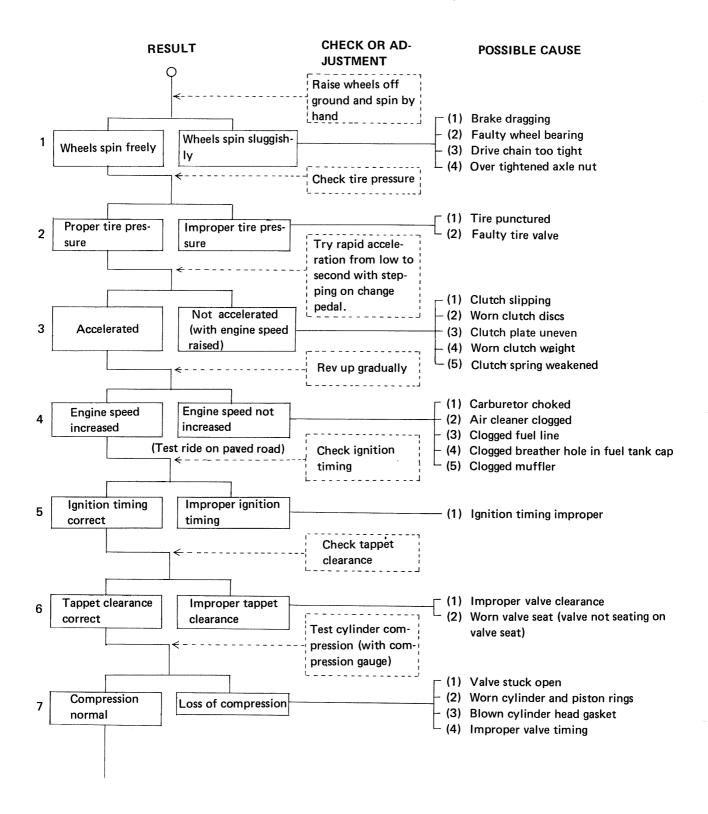
A. ENGINE WILL NOT START (OR HARD STARTING)



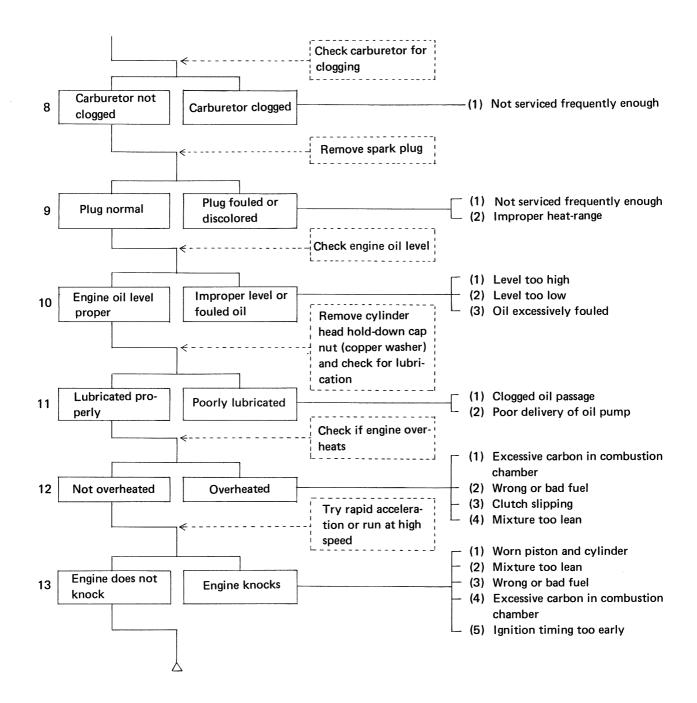




B. ENGINE LACKS POWER (AUX. TRANSMISSION OPERATES PROPERLY)

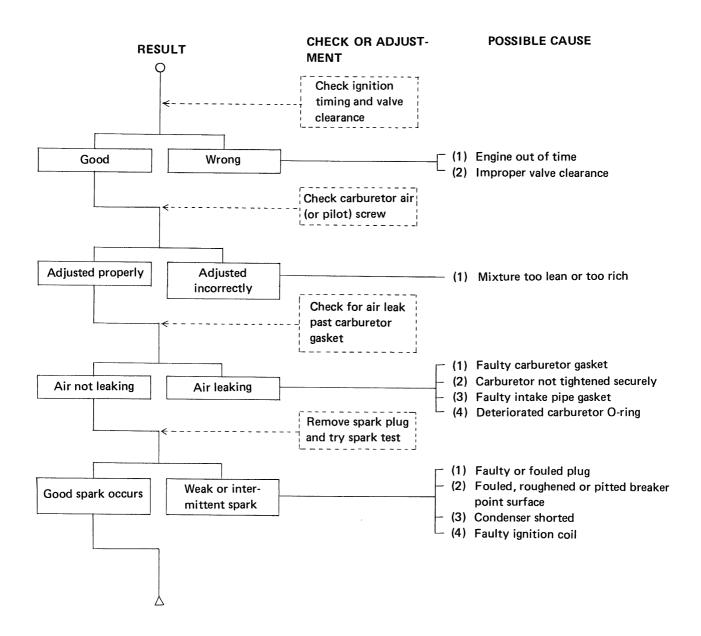






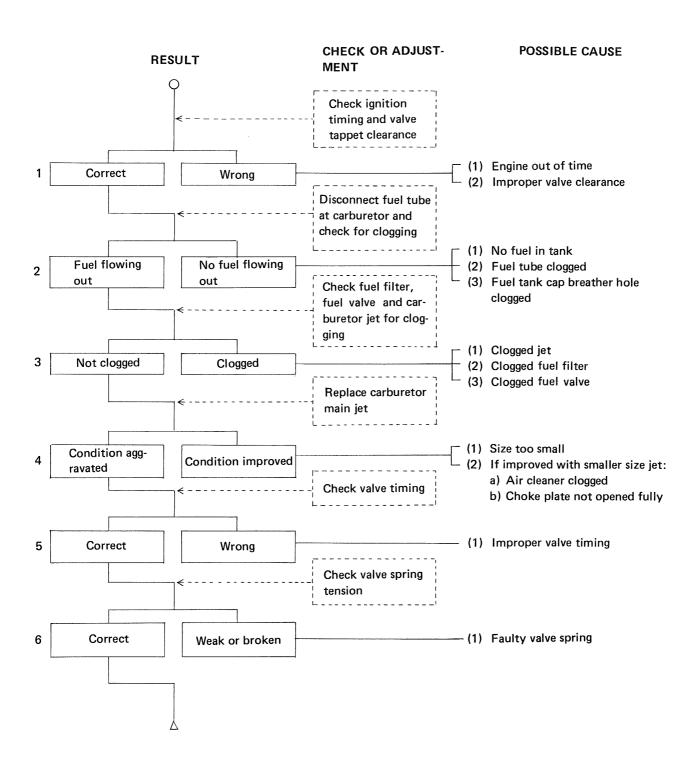


C. ROUGH IDLE OR POOR LOW SPEED PERFORMANCE (CARBURETOR IS CORRECTLY JETTED FOR LOCAL ALTITUDE.)



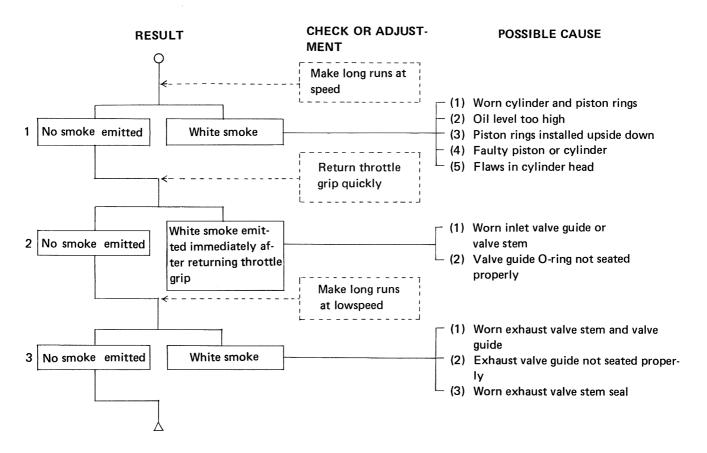


D. ENGINE LACKS HIGH SPEED PERFORMANCE

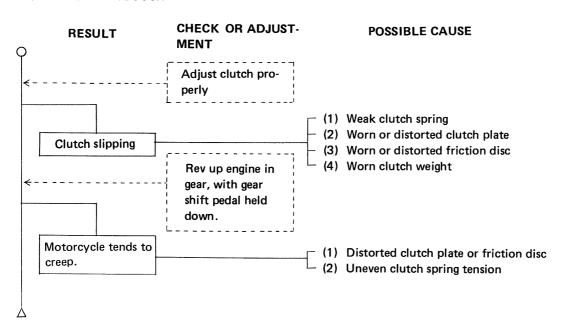




E. SMOKY EXHAUST



F. DEFECTIVE CLUTCH



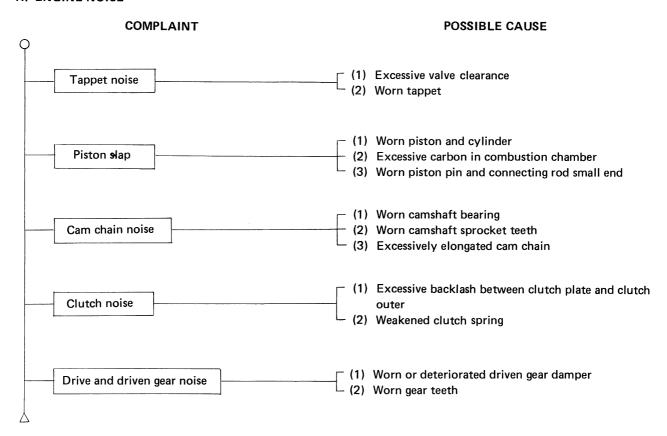


G. HARD SHIFTING

COMPLAINT **POSSIBLE CAUSE** ---- (Clutch is normal) (1) Gearshift arm spring broken (2) Shift fork broken (3) Sluggish movement of shift drum and shift fork Hard shifting (4) Transmission gear dog chipped or broken - (5) Shift arm pawl coming out of shift drum pin (6) Improper setting stopper plate and stopper (1) Broken shift return spring Pedal not returned to neutral $^ extstyle (2)$ Shift shaft interferring with case or cover (1) Worn or broken shift fork guide pin Gears jumping out of position during operation (2) Bent or worn shift fork

(3) Broken or weakened shift drum stopper spring

H. ENGINE NOISE

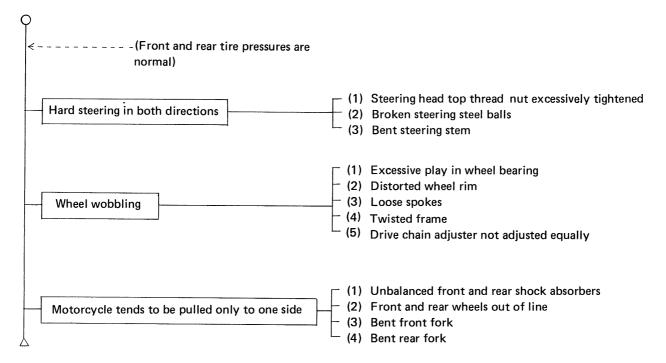




I. MOTORCYCLE PULLED TO ONE SIDE

COMPLAINT

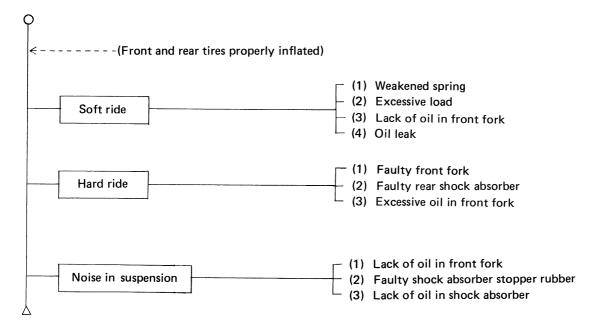
POSSIBLE CAUSE



J. FAULTY FRONT AND REAR SHOCK ABSORBERS

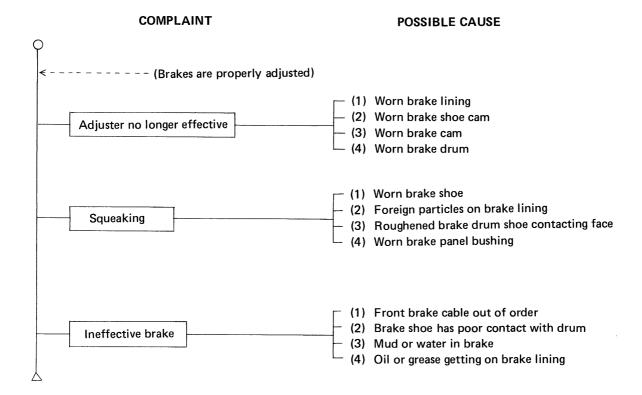
COMPLAINT

POSSIBLE CAUSE





K. FAULTY BRAKE



POSSIBLE CAUSE

L. PREMATURE ELONGATION OF DRIVE CHAIN

COMPLAINT

Premature elongation of drive chain (1) Improper adjustment (2) Lack of lubricant (3) Worn sprocket

7. MAINTENANCE SCHEDULE



1977 (K8) model

This maintenance schedule is based upon average riding conditions.

Machines subjected to severe use, or ridden in unusually dusty areas, require more frequent servicing.

		INITIAL SERVICE PERIOD	Perform	EGULAR SEF at every indica terval, whichev	ted month or	mileage
	Month	_	1	3	6	12
	Mile	500	500	1,500	3,000	6,000
	Km	1,000	1,000	2,500	5,000	10,000
ENGINE OIL		R		R		
CENTRIFUGAL OIL FILTER						С
OIL FILTER SCREEN						С
SPARK PLUG					l	
CONTACT BREAKER POINT		ı			1	
IGNITION TIMING		ı			l	
VALVE CLEARANCE	, , , , , , , , , , , , , , , , , , , ,	l			ı	
CAM CHAIN TENSION		ı			l	
POLYURETHANE FOAM AIR ELEMENT	RFILTER	(service more if operated i	frequently n dusty areas.) с		
CARBURETOR		1			l	
THROTTLE OPERATION		I			l	
FUEL FILTER SCREEN		l			l	
FUEL LINES					С	
CLUTCH		1			1	
DRIVE CHAIN		** I & L	I&L			
BRAKE SHOES					1	
BRAKE CONTROL LINKAGE	.	I			ı	
WHEEL RIMS		1			ı	
TIRES		l	I			
FRONT FORK OIL		*** R				
FRONT AND REAR SUSPEN	SION	1			l	
REAR FORK BUSHING						
STEERING HEAD BEARING	S					l l
SIDE STAND						
BATTERY		I		l		
LIGHTING EQUIPMENT		I	ı			
NUTS, BOLTS (TIGHTEN)		l	I			

I - Inspection, clean, adjust or replace if necessary.

[·]R-Replace

C—Clean

L-Lubricate

^{**}Initial service period 200 miles.

^{***} Initial service period 1,500 miles.



MAINTENANCE SCHEDULE

1978 (K9) model

	WHICHEVER →	ODOMETER READING [NOTE (2)]				
FREQUENCY	COMES					
	FIRST .	600 mi.	2400 mi.	4800 mi.	/7200 mi.	
ITEM	EVERY	(1000km)	(4000km)	(8000 km)	(12000km)	
				PLACE EVER	/	
ENGINE OIL	YEAR	R	1200mi. (2000km)			
* ENGINE OIL FILTER ROTOR				С		
* ENGINE OIL FILTER SCREEN				С		
AIR CLEANER	NOTE (1)		С	С	С	
* FUEL LINES			l	l	<u> </u>	
SPARK PLUG			l	1	R	
* VALVE CLEARANCE		ı	1	l	l l	
* CONTACT BREAKER POINTS		l	I	l	l	
* IGNITION TIMING		l	I	l	l	
* CAM CHAIN TENSION		Α	A	Α	Α	
* THROTTLE OPERATION		1	l	l	l	
* CARBURETOR IDLE SPEED		l	1	l	I	
* CARBURETOR CHOKE			1	I	l	
DRIVE CHAIN	NOTE (3)		INSPECT EVERY 600mi. (1000 km)			
BATTERY ELECTROLYTE	MONTH	I	ı	ı	1	
BRAKE SHOE WEAR			1	ı	l l	
BRAKE FREE PLAY		1	1	ı	1	
* BRAKE LIGHT SWITCH		ı	l	I	l l	
* HEADLIGHT AIM		ı	l	ı	l	
SIDE STAND			l	ı		
CLUTCH		1	1	I	ı	
* SUSPENSION		ı	I	ı	ı	
* SPARK ARRESTOR			С	С	С	
* NUTS, BOLTS, FASTENERS		ı	l	I	I	
**WHEELS/SPOKES		ı	ı	1	1	
**STEERING HEAD BEARING		1			1	

1: INSPECTION, CLEAN, ADJUST, OR REPLACE IF NECESSARY.

C: CLEAN

R: REPLACE

A: ADJUST

- ** IN THE INTEREST OF SAFETY, WE RECOMMEND THESE ITEMS BE SERVICED ONLY BY AN AUTHORIZED HONDA DEALER.
- * SHOULD BE SERVICE BY AN AUTHORIZED HONDA DEALER, UNLESS THE OWNER HAS PROPER TOOLS AND SERVICE DATA AND IS MECHANICALLY QUALIFIED.

NOTES (1) More frequent service may be required when riding in dusty areas.

- (2) For higher odometer readings, repeat at the frequency interval established here.
- (3) Initial service period 200 miles.

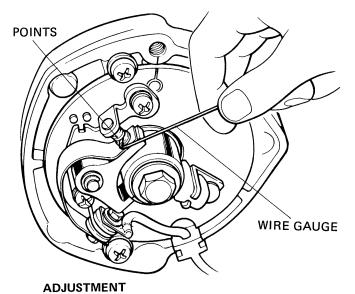
III INSPECTION/ADJUSTMENT



CONTACT BREAKER POINT GAP

INSPECTION

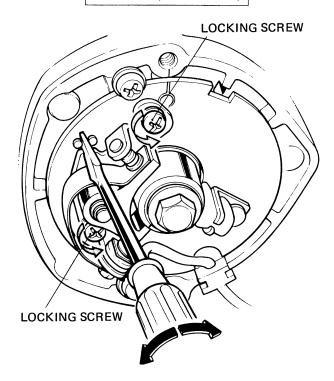
· Remove the point and generator covers.



NOTE

Contact breaker point gap must be adjusted before the ignition timing adjustment is performed.

POINT GAP 0.3-0.4 mm (0.012-0.16 in.)



- Rotate the A.C. generator counterlockwise to find the position where the point gap is at maximum.
- (2) Check the point gap with wire gauge.

POINT GAP 0.3-0.4 mm (0.012-0.016 in.)

· When adjustment is necessary, observe the following:



- (1) Rotate the A. C. generator rotor counterclockwise to find the position where the point gap is at maximum.
- (2) Loosen the contact breaker plate locking screws and move the contact breaker plate to achieve correct gap.
- (3) When properly adjusted, retighten the locking screws.

NOTE

Do not allow the plate to move when tightening the locking screws.

(4) Rotate the A.C. generator rotor several times and recheck the breaker point gap. If the gap is incorrect, repeat the steps (1) thru (4) above.

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INSPECTION/ ADJUSTMENT

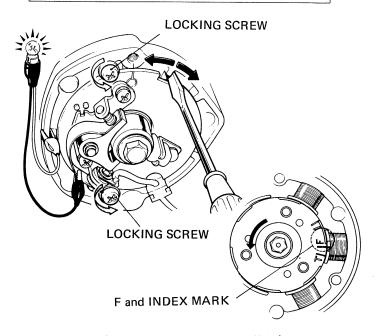
• IGNITION TIMING

Do not perform this operation until point gap has been adjusted.

Static test (with a use of test lamp)

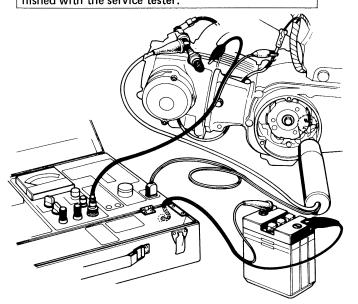
CAUTION

Use caution when adjusting the timing not to touch the points with a screwdriver.



Dynamic test (with a use of stroboscopic light)

Make the connections as described in the booklet furnished with the service tester.



- (1) Remove the point and generator covers.
- (2) Turn on the ignition switch.
- (3) Rotate the A.C. generator rotor slowly in the counterclockwise direction.
- (4) Align the "F" mark on the rotor with the index mark on the stator on compression stroke.
- (5) The contact breaker points should just start to open when both marks align (the timing light should come on). If the timing of the breaker point opening is incorrect, adjustment is made by loosening the base plate locking screws and carefully rotating the base plate until the light comes on.

TO ADVANCE TIMING Rotate the base plate clockwise.

TO RETARD TIMING Rotate the base plate

TO RETARD TIMING Rotate the base plate counterclockwise.

- (6) Retighten the base plate locking screws securely, exercising care not to allow the base plate to move.
- (7) Rotate the A.C. generator rotor several times and recheck the timing. If the moment of point opening is incorrect, repeat the steps (3) thru (7) above.

Idling: 1300 rpm "F" MARK ALIGNED WITH INDEX MARK

F and INDEX MARK

Max. Advance: 2600 rpm
"ADVANCE" MARKS ALIGNED
WITH INDEX MARK

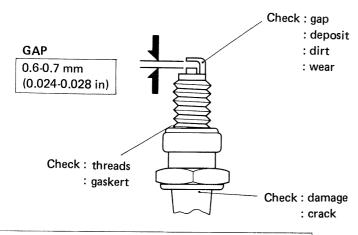


ADVANCE MARKS and INDEX MARK

INSPECTION/ADJUSTMENT



SPARK PLUG



To install, first thighten finger tight, then tighten with a spark plug wrench to compress the washer.

To clean use a plug cleaner or steel wire.



VALVE CLEARANCE

Valve tappet clearance inspection and adjustment should be performed while the engine is cold.

(1) Remove the tappet hole caps and generator cover.

VALVE CLEARANCE (IN, EX)

 $0.05 \pm 0.02 \text{ mm} (0.002 \pm 0.0008 \text{ in.})$

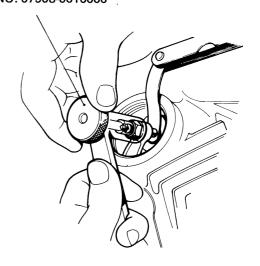
- ADJUSTING FEELER GAUGE SCREW

 LOCKNUT "T" mark and Index mark
- (2) Rotate the A.C. generator rotor in the counterclockwise direction and align the "T" mark on the rotor with the index mark on the stator.

Perform this operation with the cylinder at T.D.C. (top-dead-center) of the compression stroke. In this position, the intake and exhaust valves should be fully closed.

- (3) Check the clearance of both valves by inserting a feeler gauge between the tappet adjusting screw and the valve stem.
- (4) Adjustment is made by loosening the tappet screw lock nut and turning the adjusting screw until there is a slight drag on the feeler gauge.

TAPPET ADJUSTING WRENCH NO. 07908-0010000



Hold the adjusting screw while the lock nut is being tightened.

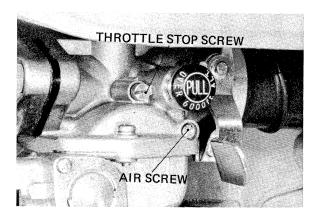
(5) Rotate the A.C. generator rotor several times and recheck the clearance with the feeler gauge.



INSPECTION/ ADJUSTMENT

• IDLE SPEED AND MIXTURE

Perform this operation while the engine is hot.



- (1) With engine running at operating temperature, turn the throttle stop screw counterclockwise to obtain the lowest stable idle speed possible.
- (2) Turn the air screw (pilot screw on 1978 (K9 model) in either direction to find the setting that produces the highest idle speed obtainable without readjusting the throttle stop screw.

NOTE: If air/pilot screw adjustment causes idle speed to increase beyond 1300 rpm, turn the throttle stop screw farther counterclockwise to lower the idle speed and repeat step 2.

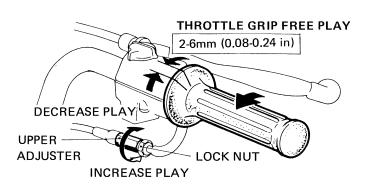
(3) After air/pilot screw adjustment has been completed, adjust the throttle stop screw to achieve the specified idle speed of 1300 rpm. Open and close the throttle a few times to verify proper throttle response, prompt return to idle, and stable idle speed.

 						-			-
ID	L	Ε	S	PI	ΞE	=	D	1300 rpm	

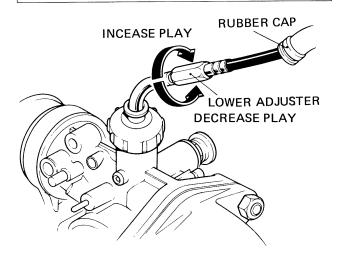
STANDARD	AIR SCREW OPENING	1 turn 1977(k8) model
		,
STANDARD	PILOT SCREW OPENING	1½ turn

THROTTLE CABLE

(1) Minor adjustment is made with the upper adjuster.



- (2) Major adjustment is made with the lower adjuster.
- If adjustment is to be made with the lower adjuster, loosen the upper adjuster.
- Make sure the rubber cap is tightened securely.



Replace the throttle cable if both adjustments are no longer effective.



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