

<u>Lubrication</u>			Unit: Mm	
Section eye		Mark quasi-	Use limit	
Motor oil capacity	At the time of oil exchange	2.25L	—————	
	Total capacity	2.8L	—————	
	At the time of oil filter exchange	2.5L	—————	
The recommendation motor oil (as for year using the oil of the viscosity which is suited for the open air temperature of the area which is used.)		- HONDA genuine ultra U (for 4 cycle bicycles) SAE10W-30 or HONDA genuine ultra GP (for 4 cycle bicycles) SAE10W-30 and 20W-50 - API classification motor oil of SE or SF class	—————	
Oil pressure (oil pressure indicator lamp switch adapter unit)		490-588kPa (5.0-6.0kgf/?) /5000rpm/80 B,,f	—————	
Oil pump rotor	Tip/chip clearance	0.15	0.20	
	Body clearance	0.15-0.22	0.35	
	Side clearance	0.02-0.07	0.10	
Cooling system			Unit: Mm	
Section eye		Mark quasi-	Use limit	
Coolant capacity	When disassembling	1.72L	—————	
	When exchanging	1.30L	—————	
	Reserve tank capacity	0.6L	—————	
Coolant standard density		30%	—————	
Radiator cap injection-valve open pressure		108-137kPa (1.1-1.4kgf/?)	—————	
Thermostat	Opened valve start temperature	80-84 B,,f	—————	
	Full opening temperature	95 B,,f	—————	
	Full opening lift quantity	Above 8mm	—————	
Fuel system			Unit: Mm	
Section eye		Mark quasi-	Use limit	
Carburetor	Type	VDD0	—————	
	Setting mark	VDD0B B-ŸA	—————	
	Venturi diameter	29.2mm suitable	—————	
	Pilot screw opening	Standard	2 3/8 revolution resetting	—————
		After the idle drop	3/4 revolution resetting	—————
	Float level	7.0	—————	
	Idling rpm	1,100B±100rpm	—————	
	Main jet	Front #112/rear #110	—————	
Slow jet	#35	—————		
Play of throttle grip		2-6	—————	
Prayer impression differential pressure of carburetor alignment non- pressure		2,666Pa (20mmHg) within	—————	
Cylinder head, valve			Unit: Mm	
Section eye		Mark quasi-	Use limit	
Compression pressure		1373kPa (14.0kgf/?) -400rpm	—————	

Differential pressure between compression pressure cylinder		196kPa (2.0kgf/?) Within		—————
Valve clearance (cold)	IN	0.15B±0.02		—————
	EX	0.20B±0.02		—————
Distortion of cylinder head surface		—————		0.01
Camshaft	Cam rise	IN	37.188-37.348	37.16
		EX	37.605-37.765	37.58
	Journal public diameter		21.959-21.980	21.90
	Journal section oil clearance		0.050-0.111 (center) 0.100-0.161 (side)	0.130
	Bending		—————	0.03
Valve, valve guide	Valve stem major diameter	IN	5.475-5.490	5.45
		EX	5.455-5.470	5.44
	Valve guide inside diameter	IN	5.500-5.512	5.56
		EX	5.500-5.512	5.55
	Opening of stem and guide	IN	0.010-0.037	0.07
		EX	0.030-0.060	0.09
Per valve seed width		IN/EX	0.9-1.1	1.5
Valve spring	Free length	IN	46	44.5
		EX	42.83	41.25
Rocker arm,	Rocker arm inside diameter		12.000-12.018	12.05
Rocker arm shaft	Rocker arm shaft major diameter		11.966-11.984	11.83

Cylinder and piston

Unit: Mm

Section eye		Mark quasi-	Use limit	
Cylinder	Inside diameter	64.000-64.015	64.1	
	Taper	—————	0.05	
	Circularity	—————	0.05	
	Surface distortion	—————	0.10	
Piston,	Attachment direction indication mark		"The IN" mark is directed to inhalation side	
	Major diameter measurement position		From skirt bottom 10mm	
	Major diameter		63.970-63.990	63.90
	Piston pin hole inside diameter		15.002-15.008	15.05
	Opening of piston and cylinder		0.010-0.045	0.1
	Piston pin major diameter		14.994-15.000	14.98
	Opening of piston and piston pin		0.002-0.014	0.04
Piston pin,	Opening of piston pin and connecting rod clip section		0.016-0.040	0.06
Piston ring	Piston ring being agreeable oral opening	Top	0.2-0.35	0.5
		Second	0.35-0.50	0.7
		Oil (channel side-rail)	0.20-0.70	0.90
	Opening of ring and piston-ring groove	Top	0.025-0.055	0.08
		Second	0.015-0.045	0.10
	Piston ring mark	Top	The mark aspect is directed to the top	—————
Second		The mark aspect is directed to the top	—————	
Connecting rod clip section inside diameter		15.016-15.034	15.07	

Clutch and gear shift linkage

Unit: Mm

Section eye		Mark quasi-	Use limit	
Clutch	Play of clutch lever		10-20	
	Clutch spring free length		43.2	42.0
	Thickness of clutch disk	A	2.62-2.78	2.3
		B	2.62-2.78	2.3

Clutch outer inside diameter		32.000-32.025	32.06
Clutch outer guide	Inside diameter	21.991-22.016	22.08
	Major diameter	31.959-31-975	31.92
Distortion of clutch plate		—————	0.30

Crankcase, crankshaft and transmission				Unit: Mm
Section eye			Mark quasi-	Use limit
Crankshaft	Oil clearance	Crankpin	0.022-0.044	0.05
		Main journal	0.025-0.041	0.06
	Wobble	—————	0.05	
	Connecting rod large end side clearance		0.05-0.20	0.50
Transmission	Gear inside diameter	M4, M5, C2 and C3	28.000-28.021	28.04
		C1	24.000-24.021	24.04
	Bush inside diameter	M4, C2 and C3	25.000-25.021	25.04
		C1	20.016-20.037	20.06
	Bush major diameter	M4, C2 and C3	27.959-27.980	27.94
		M5	27.949-27.980	27.94
		C1	23.959-23.980	23.94
	Main shaft major diameter (M4 bush section)		24.959-24.980	24.94
	Counter shaft major diameter	C1 bush section	19.980-19.993	19.96
		C2 bush section	24.972-24.990	24.95
		C3 bush section	24.959-24.980	24.94
	Opening of gear and bush	M4, C1, C2 and C3	0.020-0.062	0.10
		M5	0.020-0.072	0.10
	Opening of bush and shaft	M4 and C3	0.020-0.062	0.10
		C1	0.023-0.057	0.10
		C2	0.010-0.049	0.10
Shift fork shaft major diameter		12.966-12.984	12.90	
Shift fork	Thickness of nail	5.93-6.00	5.63	
	Shaft hole inside diameter	13.000-13.021	13.04	
Shift drum journal public diameter		11.966-11.984	11.90	

Front wheel, suspension and steering wheel				Unit: Mm	
Section eye			Mark quasi-	Use limit	
Front fork	Bending of axle		—————	0.2	
	Shaking of rim	Lengthwise	—————	2.0	
		Cross direction	—————	2.0	
	Tire	Remaining groove		—————	1.5
		Sky Air Pressure	One name riding in a car	Generality	200kPa (2/00kgf/?)
				High speed	200kPa (2/00kgf/?)
Two name riding in a car			Generality	200kPa (2/00kgf/?)	
Fork	Spring free length		361.2	354	
	Oil level		—————	—————	
	Oil level		523B±2.5?	—————	
	Oil kind		HONDA ultra cushion oil 10	—————	
	Bending of tube		—————	0.2	
Steering wheel starting load			1.0-1.4N m (0.1-0.15kgf-m)	—————	

Rear wheel, suspension				Unit: Mm
Section eye			Mark quasi-	Use limit
Rear wheel	Bending of axle		—————	0.2

	Wobble of rim	Lengthwise			—————	2.0
		Cross direction			—————	2.0
	Tire	Remaining groove			—————	2.0
		Sky Air Pressure	One name riding in a car	Generality	200kPa (2.25kgf/?)	—————
				High speed	200kPa (2.25kgf/?)	—————
Two name riding in a car	Generality	200kPa (2.25kgf/?)	—————			
Drive chain	Play			30-40	—————	
	Size/link	RK			525SM5/114LE	—————
		DID			525V8/114LE	—————
Thickness of drive chain slider				—————	To worn limited mark	

Brake gear				Unit: Mm	
Section eye		Mark quasi-		Use limit	
Brake fluid		DOT 4		—————	
Play of front brake lever		10-20		—————	
Brake pedal free movement rear		10-20		—————	
Thickness of brake pad		—————		To worn limited groove	
Wobble of brake disk	Front	—————		0.4	
	Rear	—————		0.25	
Thickness of brake disk	Front	6.0	5.0		
	Rear	5.0	4.0		
Master cylinder bone	Front	11.000-11.043	11.05		
	Rear	14.000-14.043	14.06		
Master piston major diameter	Front	10.957-10.984	10.94		
	Rear	13.957-13.984	13.95		
Caliper cylinder bone	Front	27.000-27.050	27.06		
	Rear	38.180-38.230	38.24		
Caliper piston major diameter	Front	26.935-26.968	26.91		
	Rear	38.115-38.148	38.09		

Battery and charging apparatus			
Section eye		Mark quasi-	
AC generator	Type	Three phase circuit alternating current system	
	Output	347kW/5000rpm	
	Charging coil value of resistance (20 B.,f)	0.1-1.0 O©	
rectifier	Type	Thyristor system	
	Control voltage	14.0-15.0V/5000rpm	
Battery	Capacity	12V-8Ah	
	Charging current	Standard	0.9A/5-10h
		Rapidity	4.0A/1h
	Leak electric current	Below 0.1mA	
	Voltage (20 B.,f)	Complete charge time	Above 12.8V
Charge insufficiency		Below 12.3V	

Ignition device			
Section eye		Mark quasi-	
Ignition system		Full transistor type battery ignition	
Sparkplug		NGK	The Nippondenso Co., Ltd.
	Standard	DPR7EA-9	X22EPR-U9
	OP (when travelling which designates high speed as subject)	DPR8EA-9	Z24EPR-U9
Sparkplug gap		0.8-0.9mm	

Ignition timing	"F" mark	11B°BTDC/1100rpm
	Advanced angle start rpm	2000B±100rpm
	Advanced angle end rpm	7800rpm
Ignition coil	Type	MP10
	Peak voltage	Above 100V
Pulse generator	Value of resistance (20 B,,f)	450-510 O©
	Peak voltage	Above 0.7V
Starter and starter clutch		Unit: Mm
Section eye		Mark quasi-
Length of starter motor brush		12.5
		6.5
Light/write and meter, switch		
Section eye		Mark quasi-
Fuse	Main	30A
	Sub	10AΓ—4
Light/write, valve	Headlight (high/low/row)	12V-60/55W
	Tail/brake light/write	12V-5/18W
	Front turn signal/position light/write	12V-18/5W
	Rear turn signal light/write	12V-18W
	Meter illumination lamp	12V-0.84W
	Turn signal indicator	LED
	Neutral indicator	LED
	Side stand indicator	LED
	High beam indicator	LED
	Hydraulic warning light	LED
	Water temperature warning light	LED
Thermostat operating temperature	OFF -> ON	112 - 118 B,,f
	ON -> OFF	108 B,,f above
Fan motor switching temperature	OFF -> ON	98 - 102 B,,f
	ON -> OFF	93 - 97 B,,f