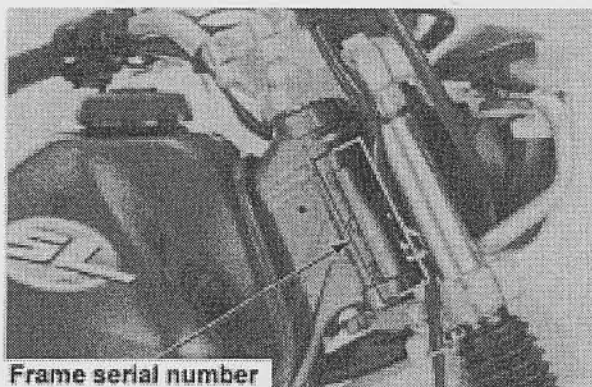


◆ Serial Number, Colour Label

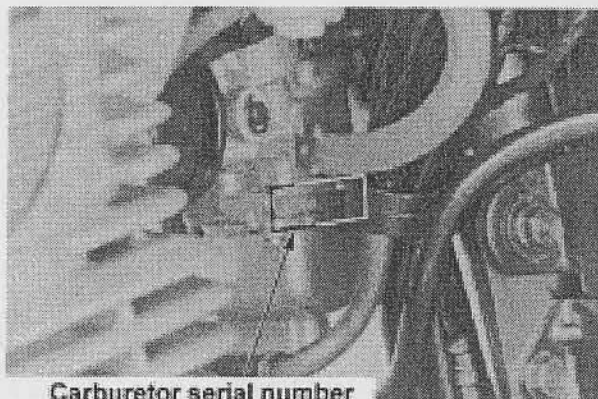
SL230
Frame # : MD33-1000001~
Engine # : MD33E-1000001~



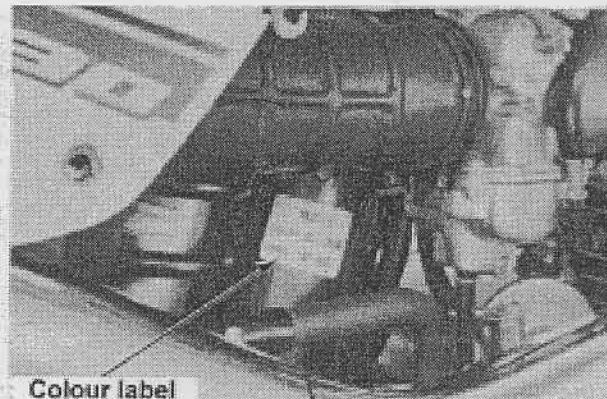
Frame serial number



Engine serial number



Carburetor serial number



Colour label

Quote the model name and the colour code when ordering coloured parts.

◆ Specifications

Item		Specification		
Name / Type		Honda MD33		
Overall length		2.070m		
Overall width		0.825m		
Overall height		1.135m		
Wheelbase		1.345m		
Engine model		MD33E		
Displacement		0.223l		
Fuel type		Petrol		
Dry weight	Front axle	53kg		
	Rear axle	62kg		
	Total	115kg		
Maximum capacity		2 people		
Tyres		2.75 – 21 45P		
		120 / 80 – 18 62P		
Minimum ground clearance		0.260m		
Minimum stop distance (initial speed)		14.5m (50km/h)		
Minimum turning radius		1.9m		
Engine	Starting system		Self start	
	Engine type		4 stroke, petrol	
	Cylinder arrangement		1	
	Combustion chamber		Hemisphere	
	Valve train		OHC chain driven	
	Bore x stroke		65.5 x 66.2mm	
	Compression ratio		9.0	
	Maximum output power		20PS / 7,500rpm	
	Maximum torque		2.1kgf-m / 6,000rpm	
	Valve operation timing (1mm lifted)	Intake	Open	5° BTDC
			Close	30° ABDC
		Exhaust	Open	35° BBDC
			Close	5° ATDC
	Valve clearance (cooled)	Intake	0.10 ± 0.02mm	
		Exhaust	0.10 ± 0.02mm	
	Lubrication		Forced and spray type	
	Oil pump		Trochoid type	
Oil filter		Total flow – mesh filtering		
Cooling system		Air cooled		

Item		Specification			
Fuel system	Air filter	Type	Filter paper		
	Carburetor	Type	VE 3 A		
		Throttle bore	30mm		
		Venturi bore	Variable (maximum lift 27mm)		
Transmission	Clutch	Type	Wet multiple – plate coil spring		
		Operation	Mechanical		
	Initial reduction	Type	Gear		
		Reduction ratio	3.090 (68/22)		
	Gear	Type	Full time contact		
		Operation	Left foot pedal		
		Reduction ratio	1 st	3.083 (37/12)	
			2 nd	2.062 (33/16)	
			3 rd	1.450 (29/20)	
			4 th	1.130 (26/23)	
5 th	0.960 (24/25)				
6 th	0.814 (22/27)				
Final reduction	Type	Chain			
	Reduction ratio	3.076 (40/13)			
Drive train	Caster		27° 20'		
	Trail		107mm		
Steering	Steering angle	Left	51°		
		Right	51°		
Brake system	Type	Front	Hydraulic disc brake		
		Rear	Hydraulic disc brake		
Shock absorbing system	Suspension	Front wheel	Telescopic type		
		Rear wheel	Swing arm type		
Frame type			Diamond type		

DTA.

◆ Lubrication System

Item		Standard	Limitation
Engine oil capacity	At oil change	1.0ℓ	-
	Total capacity	1.2 ℓ	-
Recommended engine oil (select the viscosity level based on your operating outside temperature).		<ul style="list-style-type: none"> Genuine Honda Ultra – U (4 stroke motorcycle) SAE 10W-30 or genuine Honda Ultra-GP (4 stroke motorcycle) SAE 10W-30, 20W-50 API class SE or SF engine oil 	-
Oil pump rotor	Tip clearance	0.15mm	0.20mm
	Body clearance	0.15 – 0.21mm	0.35mm
	Side clearance	0.03 – 0.12mm	0.15mm

◆ Fuel System

Item		Standard
Carburetor	Type	VE3A
	Setting mark	VE3AA
	Venturi diameter	27.3mm equivalent
	Pilot screw opening	2 . 3/8 revs rewind
	Float level	18.5mm
	Idling rpm	1,400 ± 100rpm
	Main jet	#120
	Slow jet	#35
Throttle grip free play		2 – 6mm

◆ Cylinder Head and Valve

Item		Standard	Limitation		
Compression		1,275kPa (13.0kgf/cm ²) – 930rpm	-		
Valve clearance (cooled)	IN	0.10 ± 0.02mm	-		
	EX	0.10 ± 0.02mm	-		
Cylinder head top warpage		-	0.10mm		
Cam shaft	Cam lobe height	IN	31.372 – 31.612mm	31.1mm	
		EX	31.212 – 31.452mm	31.0mm	
	Runout		-	0.03mm	
Valve, Valve guide	Valve stem external diameter	IN	5.450 – 5.465mm	5.42mm	
		EX	5.430 – 5.445mm	5.40mm	
	Valve guide internal diameter	IN	5.475 – 5.485mm	5.50mm	
		EX	5.475 – 5.485mm	5.50mm	
	Stem guide clearance	IN	0.010 – 0.035mm	0.06mm	
		EX	0.030 – 0.055mm	0.08mm	
Valve seat width		IN/EX	1.1 – 1.3mm	1.5mm	
Valve spring	Free length	Inner	IN/EX	39.2mm	38.0mm
		Outer	IN/EX	44.9mm	43.5mm
Rocker arm, Sub rocker arm	Rocker arm intake diameter		12.000 – 12.018mm	12.05mm	
	Rocker arm shaft exhaust diameter		11.966 – 11.984mm	11.93mm	
	Arm shaft clearance		0.016 – 0.052mm	0.08mm	

◆ Cylinder, Piston

Item		Standard	Limitation	
Cylinder	Bore	65.500 – 65.510mm	65.6mm	
	Out of round	-	0.10mm	
	Taper	-	0.10mm	
	Top warpage	-	0.10	
Piston, Piston pin and Piston ring	Installing direction mark	"IN" mark to the intake	-	
	Ex. Diameter measuring point	10mm from the skirt end	-	
	External diameter	65.470 – 65.490mm	65.40mm	
	Piston pin hole bore	15.002 – 15.008mm	15.04mm	
	Piston, cylinder clearance	0.010 – 0.040mm	0.20mm	
	Piston pin external diameter	14.994 – 15.000mm	14.96mm	
	Piston – piston pin clearance	0.002 – 0.014mm	0.02mm	
	Piston pin – conrod small end clearance	0.010 – 0.034mm	0.10mm	
	Piston ring end gap	Top	0.20 – 0.35mm	0.5mm
		Second	0.35 – 0.50mm	0.5mm
		Oil ring side rail	0.20 – 0.70mm	0.90mm
	Ring – ring land clearance	Top	0.010 – 0.045mm	0.09mm
		Second	0.015 – 0.045mm	0.09mm
	Piston ring mark	Top	Marked surface upwards	-
Second		Marked surface upwards	-	
Connecting rod small end internal diameter		15.010 – 15.028mm	15.06mm	

◆ Clutch, Gear shift linkage

Item		Standard	Limitation	
Clutch	Clutch lever free play	10 – 20mm	-	
	Clutch spring free length	37.1mm	35.1mm	
	Clutch disc thickness	A	2.92 – 3.08mm	2.60mm
		B, C	2.62 – 2.78mm	2.30mm
	Clutch outer bore	28.000 – 28.021mm	28.05mm	
	Clutch outer guide	In. dia	19.983 – 19.996mm	22.02mm
		Ex. Dia	27.959 – 27.980mm	27.93mm
	Clutch plate distortion	-	0.30mm	
Main shaft ex. Diameter (at the clutch outer guide)		19.959 – 19.980mm	19.92mm	

◆ Crankshaft, Transmission

Item		Standard	Limitation	
Crankshaft	Connection rod big end	Side clearance	0.05 – 0.30mm	
		Radial clearance	0 – 0.008mm	
	Runout		-	0.05mm
Transmission	Gear internal diameter	M5, M6, C2	23.020 – 23.041mm	
		C1	19.520 – 19.541mm	
		C3, C4	22.020 – 22.041mm	
	Bush in. diameter	M5, M6, C2	20.020 – 20.041mm	
	Bush ex. diameter	M5	22.959 – 22.980mm	
		M6, C2	22.984 – 23.005mm	
		C1	19.479 – 19.500mm	
	Main shaft ex.diameter (M5,M6 bush)		19.959 – 19.980mm	19.90mm
	Counter shaft ex. diameter	C2 bush	19.974 – 19.987mm	19.94mm
		C1 bush	16.466 – 16.484mm	16.41mm
	Gear bush clearance	M5, C1	0.020 – 0.062mm	0.10mm
		M6, C2	0.020 – 0.072mm	0.10mm
	Bush shaft clearance	M5, M6	0.020 – 0.062mm	0.10mm
		C1	0.023 – 0.057mm	0.10mm
C2		0.010 – 0.049mm	0.10mm	
Shift fork shaft ex. diameter		11.976 – 11.994mm	11.96mm	
Shift fork	Catch thickness	4.93 – 5.00mm	4.50mm	
	Shaft hole bore	12.000 – 12.021mm	12.05mm	

◆ Front Wheel, Suspension, Steering

Item		Standard	Limitation	
Front wheel	Axle runout		-	
	Rim runout	Radial	-	
		Side	-	
	Tread depth		-	
	Tyre	Air pressure	One person Normal	125 kPa (1.25kgf/cm ²)
			High speed	125 kPa (1.25kgf/cm ²)
Two people normal			125 kPa (1.25kgf/cm ²)	
Fork	Spring free length		563.6mm	
	Oil quantity		300 ± 2.5cm ³	
	Oil level		148mm	
	Oil type		Honda ultra cushion oil #10	
	Fork tube runout		-	
Steering load		11-17 N (1.1 – 1.7kgf)	0.2mm	

◆ Rear Wheel, Suspension

Item				Standard	Limitation	
Rear wheel	Axle runout			-	0.2mm	
	Rim runout	Radial		-	2.0mm	
		Side		-	2.0mm	
	Tyre	Tread depth			-	3.0mm
		Air pressure	One person	Normal	150 kPa (1.50kgf/cm ²)	-
High speed				150 kPa (1.50kgf/cm ²)	-	
Two people	normal	150 kPa (1.50kgf/cm ²)	-			
Drive chain	Slack			25 – 35mm	-	
	Size / link	RK		520MO9/100LE	-	
		DID		520VC5/100LE	-	
Drive chain slider thickness				-	Wear limit	

◆ Brake System

Item		Standard	Limitation
Brake fluid		DOT4	-
Brake pad thickness		-	Wear limit line
Brake disc runout	Front	-	0.3mm
	Rear	-	0.3mm
Brake disc thickness	Front	3.5mm	3.0mm
	Rear	4.5mm	4.0mm
Master cylinder bore	Front	12.700 – 12.743mm	12.755mm
	Rear	14.000 – 14.043mm	14.055mm
Master piston ex. diameter	Front	12.657 – 12.684mm	12.645mm
	Rear	13.957 – 13.984mm	13.945mm
Caliper cylinder bore	Front	25.400 – 25.450mm	25.460mm
	Rear	27.000 – 27.050mm	27.060mm
Caliper piston ex. diameter	Front	25.318 – 25.368mm	25.310mm
	Rear	26.918 – 26.968mm	26.910mm

◆ Battery, Charging System

Item		Standard	
Alternator	Type	Three – phase AC generator	
	Capacity	0.188kW/5,000rpm	
	Charging coil resistant (20°C)	0.1 – 1.0Ω	
Regulator / Rectifier	Type	Cylister	
	Regulated voltage	13.6 – 14.8V/5,000rpm	
Battery	Capacity	12V – 4Ah	
	Charging current	Normal	0.5A/5-10h
		Rapid	5.0A/0.5h
	Leak current	0.1mA max	
Voltage (20°C)	Fully charged	12.8°C or above	
	Need charging	12.3°C max	

◆ Ignition

Item		Standard
Ignition system		CDI type magnetic ignition
Spark plug	NGK	DPR8EA9
	DENSO	X24EPR-U9
	Plug gap	0.8 – 0.9mm
Ignition Timing	"F" mark	9° BTDC / 1,400rpm
	Advance start (rpm)	1,800 ± 200rpm
	Advance cease (rpm)	4,100 rpm
Ignition coil peak voltage		100 V or above
Pulse generator peak voltage		0.7 V or above

◆ Starter

Item	Standard	Limitation
Starter motor brush length	12.5 – 13.0mm	8.5mm

◆ Lamps, Instruments and Switches

Item		Standard
Fuses	Main fuse	20A
	Sub fuses	15A
Lamps and bulbs	Headlamp (Hi / Lo)	12V – 60/55 W
	Tail / Stop lamp	12V – 5/21W
	Turn signal	12V – 15W
	Instrument illuminator	12V – 1.7W
	Turn signal indicator	12V – 1.7W
	Neutral indicator	12V – 1.7W
	High beam indicator	12V – 1.7W

♦ Torque Settings

Standard torque settings

Item	Torque settings N.m (kgf.m)	Item	Torque settings N.m (kgf.m)
5mm bolt and nut	5 (0.5)	5mm screw	4 (0.4)
6mm bolt and nut	10 (1.0)	6mm screw, SH bolt	9 (0.9)
8mm bolt and nut	22 (2.2)	6mm flange bolt and nut	12 (1.2)
10mm bolt and nut	34 (3.5)	8mm flange bolt and nut	26 (2.7)
12mm bolt and nut	54 (5.5)	10mm flange bolt and nut	39 (4.0)

Items not listed below should be tightened to the standard torque settings above.

- Notes:
1. Apply screw locker to the threads.
 2. Stake
 3. Apply oil to the threads and the seats.
 4. Apply oil to the O-Rings.
 5. U – nuts
 6. Alloc bolt (replace when removed).

Dave's Tests and Articles.

♦ Engine

Item	Qty	Thread Dia mm	Torque settings N.m (kgf.m)	Remarks
<u>Lubrication</u>				
Oil strainer screen cap	1	36	15 (1.5)	Note: 3
Oil filter rotor lock nut	1	16	83 (8.5)	
Oil filter rotor cover screw	3	5	5 (0.5)	
Oil pump screw	2	6	10 (1.0)	
Oil pump plate screw	2	4	3 (0.3)	
<u>Cylinder Head, Valve</u>				
Spark plug	1	12	18 (1.8)	Note 3, 4 Note 3 Note 3
Tappet hole cap	2	36	15 (1.5)	
Valve adjust lock nut	2	6	14 (1.4)	
Cylinder head cover nut bolt	4	8	27 (2.8)	
Cylinder head cover bolt	4	6	12 (1.2)	
Cylinder head bolt	1	6	10 (1.0)	
Cam sprocket bolt	2	6	12 (1.2)	
Cam chain tensioner socket bolt	2	6	12 (1.2)	
Cam chain tensioner sealing screw	1	6	4 (0.4)	
Cam chain tensioner slider bolt	1	8	10 (1.0)	
<u>Clutch, Gear shift linkage</u>				
Clutch lifter plate bolt	4	6	12 (1.2)	Note 2, 3
Clutch centre lock nut	1	16	83 (8.5)	
Shift drum stopper arm bolt	1	6	12 (1.2)	Note 6
Pedal link mount bolt	1	6	16 (1.6)	
Pedal pivot bolt	1	8	20 (2.0)	
<u>Crankshaft, Transmission</u>				
Bearing set plate bolt	2	6	12 (1.2)	Note 1
<u>Charging System</u>				
Flywheel bolt	1	10	74 (7.5)	Note 3
Stator socket bolt	3	6	10 (1.0)	
<u>Ignition System</u>				
Timing hole cap	1	14	10 (1.0)	Note 4 Note 4
Crankshaft hole cap	1	30	8 (0.8)	
Pulse generator socket bolt	2	5	5 (0.5)	Note 1
<u>Starting System</u>				
One way clutch socket bolt	6	6	16 (1.6)	Note 1

◆ Frame

Item	Qty	Thread Dia mm	Torque settings N.m (kgf.m)	Remarks
<u>Exterior parts, Muffler</u>				
Exhaust pipe joint nut	2	6	10 (1.0)	
Muffler mount cap nut	1	8	22 (2.2)	
Muffler mount bolt	1	6	10 (1.0)	
Exhaust pipe protector bolt (front/rear)	5	6	15 (1.5)	
Muffler protector bolt	1	6	15 (1.5)	
<u>Fuel System</u>				
Fuel cock lock nut	1	18	26 (2.7)	
Air cleaner case bolt	2	6	8 (0.8)	
<u>Engine Mount</u>				
Cylinder head hanger nut (engine side)	1	8	34 (3.5)	
Rear upper engine mount nut	1	10	49 (5.0)	
Rear lower engine mount nut	1	10	49 (5.0)	
Front engine hanger nut (frame side)	2	8	34 (3.5)	
Front engine hanger nut (engine side)	2	8	34 (3.5)	
<u>Front wheel, Suspension and Steering</u>				
Handlebar upper holder bolt	4	8	20 (2.0)	
Clutch lever pivot nut	1	6	10 (1.0)	
Steering stem nut	1	24	98 (10.0)	
Steering top thread	1	26	4 (0.45)	
Spoke nipple	36	BC3.2	4 (0.4)	
Front brake disc bolt	4	6	20 (2.0)	Note 9
Front axle	1	14	74 (7.5)	
Front axle holder nut	4	6	12 (1.2)	Note 5
Fork pinch bolt (upper)	4	8	27 (2.8)	
Fork pinch bolt (lower)	4	8	32 (3.3)	
Fork centre bolt	2	8	20 (2.0)	Note 1
Fork bolt	2	32	22 (2.2)	
<u>Rear wheel, Suspension</u>				
Rear axle nut	1	16	93 (9.5)	Note 5
Rear brake disc bolt	4	8	42 (4.3)	Note 6
Driven sprocket nut	6	8	32 (3.3)	Note 5
Spoke nipple	32	BC3.5	7 (0.75)	Note 6
Swing arm pivot nut	1	14	68 (6.9)	Note 5
Rear cushion bolt (upper)	1	8	44 (4.5)	
Rear cushion nut (lower)	1	10	44 (4.5)	Note 5
Cushion conrod nut (cushion arm side)	1	10	44 (4.5)	Note 5
Cushion conrod nut (frame side)	1	10	44 (4.5)	Note 5
Cushion arm nut (swing arm side)	1	12	68 (6.9)	Note 5
Chain slider screw	2	5	4 (0.42)	Note 1

◆ Frame

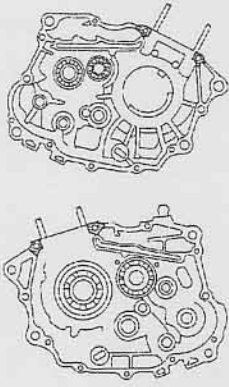
Item	Qty	Thread Dia mm	Torque settings N.m (kgf.m)	Remarks
<u>Brake System</u>				
Brake hose bolt	4	10	34 (3.5)	
Front caliper mount bolt	2	8	30 (3.1)	Note 1
Rear brake hose guide screw	2	5	4 (0.43)	Note 6
Reservoir cover screw	2	4	2 (0.15)	
Front brake light switch screw	1	4	1 (0.12)	
Front brake lever pivot bolt	1	6	10 (1.0)	
Front brake lever pivot nut	1	6	10 (1.0)	
Front brake hose clamp bolt	1	6	12 (1.2)	Note 1
Rear master cylinder	2	6	14 (1.4)	Note 6
Push rod lock nut	1	8	18 (1.8)	
Caliper pad pin	2	10	18 (1.8)	
Caliper pad pin plug	2	10	2 (0.25)	
Caliper bleeder valve	2	8	5 (0.55)	
Caliper pin bolt	2	8	12 (1.2)	Note 1
Front caliper pin bolt A	1	8	22 (2.2)	Note 1
Rear caliper pin bolt	1	12	27 (2.8)	
Brake pedal pivot bolt	1	10	34 (3.5)	Note 1
<u>Others</u>				
Main switch bolt	1	8	26 (2.7)	Note 1
Step holder bolt	2	8	34 (3.5)	Note 6
Side stand pivot bolt	1	10	10 (1.0)	
Side stand pivot nut	1	10	39 (4.0)	Note 5
Headlamp bolt	2	5	0.8 (0.08)	

◆ Special Tools

Description	Tool Number	Application
<u>Adjustment</u> Wrench C, 5.8 x 6.1mm Drive chain stake tool	077101-0020300 07HMH-MR10103	Front wheel spoke tightening Drive chain replacement
<u>Lubrication System</u> Lock nut wrench 20 x 24mm Extension bar Gear holder	07716-0020100 07716-0020500 07724-0010100	Oil filter lock nut removal / installation
<u>Fuel System</u> Float level gauge Pilot screw wrench	07401-0010000 07908-4730001	Carburetor float level adjustment Pilot screw adjustment
<u>Cylinder Head, Valve</u> Compression gauge attachment Tappet adjust wrench Wrench, 10 x 12mm Valve spring compressor Valve guide remover 5.5mm Valve guide reamer 5.485mm Cutter holder 5.5mm Valve seat cutter 45° seat cutter 33mm 45° seat cutter 29mm 32° flat cutter 33mm 32° flat cutter 30mm 60° interior cutter 30mm 60° interior cutter 30mm	07510-MB00101 07708-0030300 07708-0030200 07757-0010000 07742-0010100 07984-0980001 07781-0010101 07780-0010800 07780-0010300 07780-0012900 07780-0012200 07780-0014000 07780-0014000	Cylinder compression measurement Valve clearance adjustment Valve removal / installation Valve guide removal / installation Valve guide cleaning / finishing Valve seat adjustment IN EX IN EX IN EX
<u>Clutch, Gear shift linkage</u> Clutch centre holder Lock nut wrench 20 x 24mm Extension bar Pin driver 3.0mm	07GMB-KT70101 07716-0020100 07716-0020500 07744-0010200	Clutch centre lock nut removal/installation Spring pin removal / installation
<u>Crankcase, Crankshaft and Transmission</u> Bearing remover 15mm - remover shaft - remover head - sliding weight Driving handle A Outer driver 32 x 35mm Pilot 15mm Outer driver 52 x 55mm Outer driver 20mm Outer driver 42 x 47mm Pilot 20mm Outer driver 72 x 75mm Pilot 28mm	07936-KC10000 07936-KC10100 07936-KC10200 07741-0010201 07749-0010000 07746-0010100 07746-0040300 07746-0010400 07746-0040500 07746-0010300 07746-0040500 07746-0010600 07746-0041100	Left main shaft bearing removal Bearing installation Left main shaft bearing installation Right main shaft bearing installation Left countershaft bearing installation Right crankcase bearing installation

Description	Tool Number	Application
<u>Front Wheel, Suspension and Steering</u> Bearing remover shaft Bearing remover head 15mm Driver handle A Outer driver 32 x 35mm Pilot 15mm Fork seal driver Fork seal driver attachment Steering stem socket Ball race remover - driver attachment - driver handle Driver handle A Outer driver 42 x 47mm Steering stem driver	07746-0050100 07746-0050400 07749-0010000 07746-0010200 07746-0040300 07947-KA50100 07947-KL40100 07916-KA50100 07953-MJ10000 07953-MJ10100 07953-MJ10200 07749-0010000 07746-0010300 07946-4300101	Front wheel bearing removal Front wheel bearing installation Fork oil seal installation Steering top thread removal/installation Stem outer race removal Stem outer race installation Stem lower inner race installation
<u>Rear wheel, Suspension</u> Bearing remover shaft Bearing remover head 17mm Driver handle A Outer driver 37 x 40mm Pilot 17mm Driver shaft Driver handle A Outer driver 24 x 26mm Pilot 17mm Driver shaft Outer driver 24 x 26mm Driver handle A Pilot 20mm Needle bearing remover Driver handle A Outer driver 24 x 26mm Pilot 20mm	07746-0050100 07746-0050500 07749-0010000 07746-0010200 07746-0040400 07946-MJ00100 07749-0010000 07746-0010700 07746-0040400 07946-MJ00100 07746-0010700 07749-0010000 07746-0010700 07746-0040500 07946-KA50000 07749-0010000 07746-0010700 07746-0040500	Rear wheel bearing removal Rear wheel bearing installation <ul style="list-style-type: none"> • Cushion connection rod bearing removal • Cushion arm bearing (cushion connection rod end, rear cushion end) removal • Cushion connection rod bearing installation • Cushion arm bearing (cushion connection rod end, rear cushion end) installation Cushion arm bearing (swing arm end) removal Cushion arm bearing (swing arm end) installation Swing arm needle bearing removal Swing arm bearing installation
<u>Brake System</u> Snap ring pliers	07914-3230001	Snap ring removal / installation
<u>Ignition System</u> Peak voltage adapter	07HGJ-0020100	Peak voltage measurement
<u>Starter Motor, Starter Clutch</u> Flywheel holder Flywheel puller Flywheel holder	07725-0030000 07733-0020001 07725-0030000	Flywheel removal / installation Starter clutch removal / installation

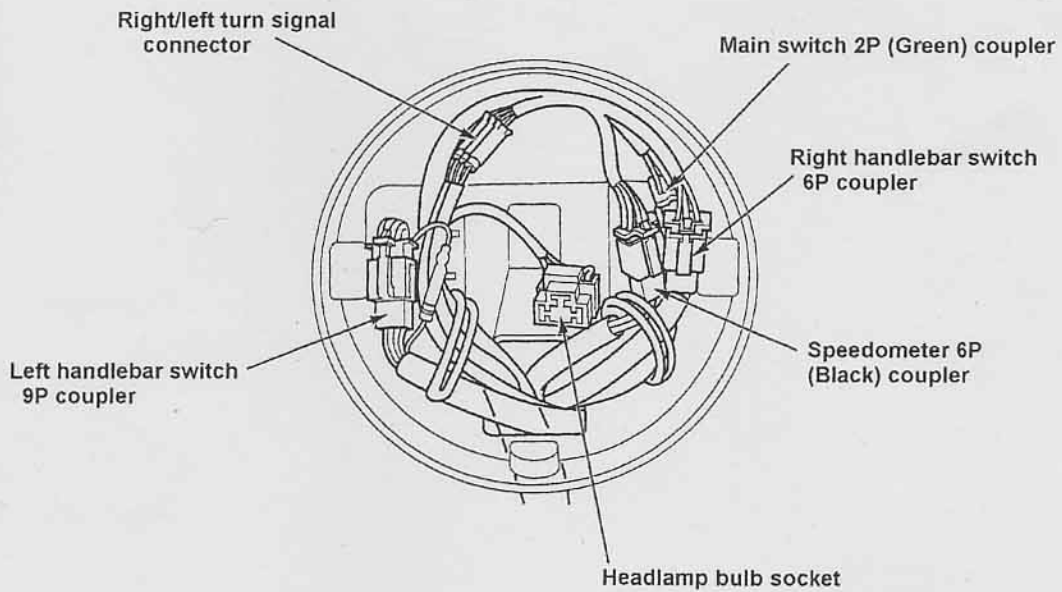
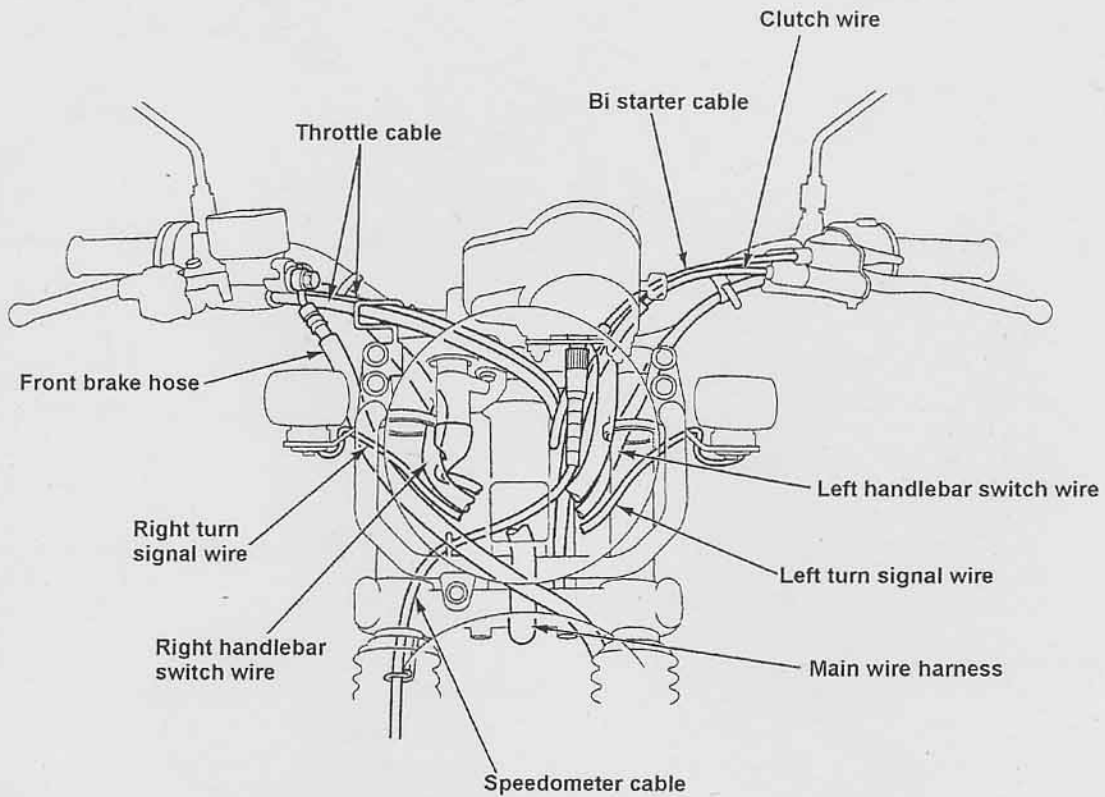
◆ Lubrication and Sealant
Engine

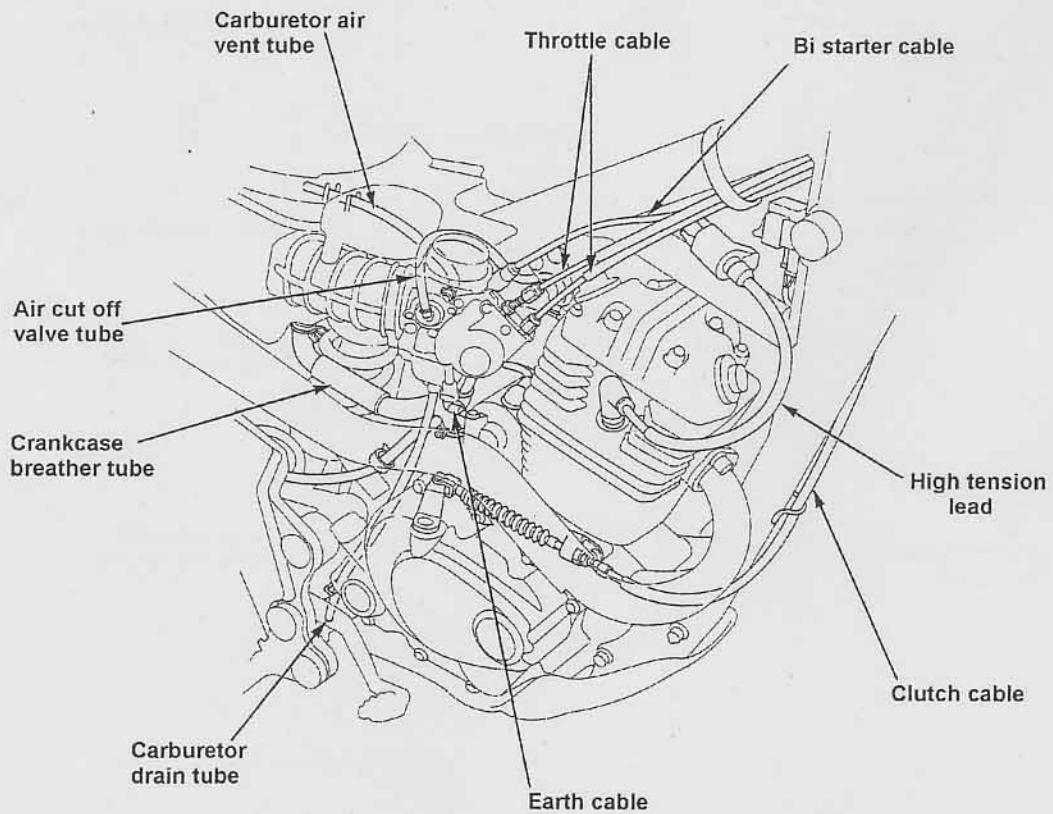
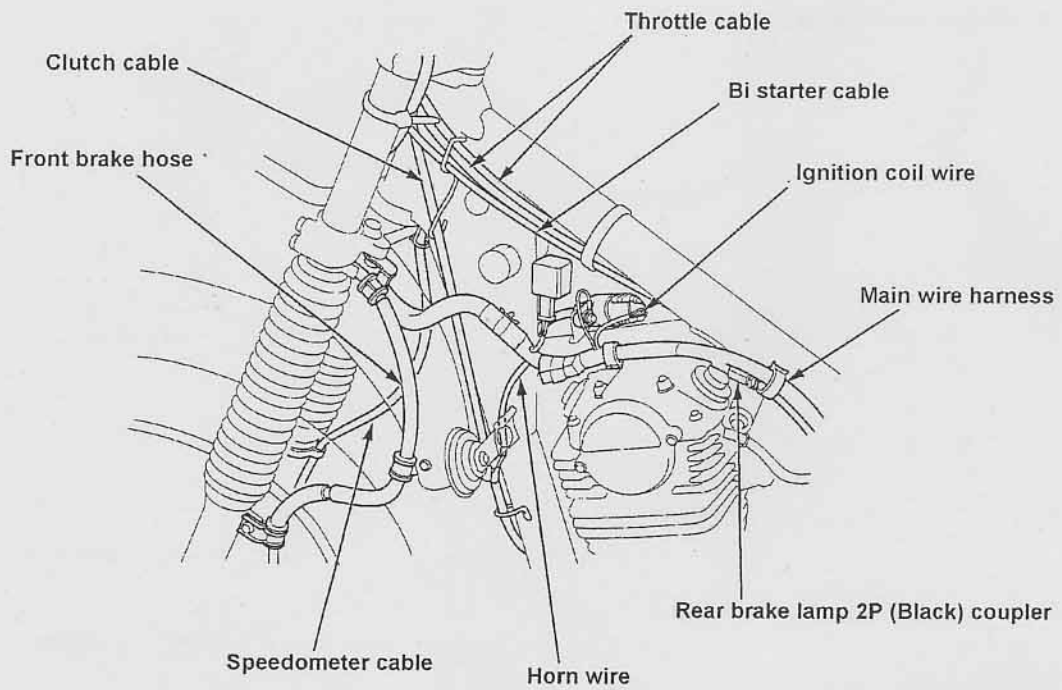
Application	Notes	Type of fluid
Cylinder head cover mating surface	Do not block the oil path	Three bond #1215 or equivalent.
<p>Crankcase gasket</p>  <p>Stator grommet</p>		Three bond #1141 or equivalent.
<p>Cam shaft bearing and cam Locker arm shaft (whole round) Piston pin (whole round) Intake valve, exhaust valve stem M5, M6 gear interior surface C1, C2, C3 and C4 gear interior surface Clutch outer guide (whole round)</p>		Molybdenum solution (engine oil): (Molybdenum grease) = 1:1
<p>Flywheel bolt thread Clutch centre lock nut thread Cylinder head cover nut thread Valve adjust screw lock nut thread Oil filter rotor lock nut thread Piston skirt and ring Cylinder interior surface Crankshaft crank pin, connecting rod bearings Starter reduction gear, shaft (whole round) Starter idle gear, shaft (whole round) Clutch disc whole round Oil pump inner rotor, outer rotor whole round Oil through rubbing area Starter clutch rubbing area Cam chain whole round Cylinder head stud bolt thread Each oil seal lips Each bearing rotating parts Each O-Ring surfaces</p>		<ul style="list-style-type: none"> • Genuine Honda Ultra-U (4 stroke motorcycle) SAE 10W – 30 • API grading class SE or SF engine oil
<p>Bearing set plate bolt thread One way clutch socket bolt thread Pulse generator socket bolt thread</p>		Screw locker

◆ Frame

Application	Notes	Type of fluid
Drive chain		Gear oil #80 ~ 90
Steering head bearing rotation area Steering head bearing dust seal lip Front wheel dust seal lip Rear wheel dust seal lip Swing arm pivot bearing and surface, moving area dust seal lip pivot collar exterior surface Cushion arm needle bearing end surface, moving area dust seal lip Cushion connection rod needle bearing end surface, moving area dust seal lip Speedometer gear box interior surface gear teeth, shaft rotating area		Multi-purpose grease
Front brake master piston, lever contact area Rear brake master piston, push rod contact area Brake caliper pin, bracket pin bolt rubbing surface Caliper dust seal whole round Brake lever pivot rubbing surface		Silicone grease
Caliper piston rubbing surface Caliper interior surface Caliper piston seal whole round Master cylinder piston cup Master cylinder interior surface Rear brake reservoir joint O-Ring		Designated brake fluid: DOT4
Handlebar grip interior surface		Honda bond A or equivalent.
Fork dust seal lip Fork oil seal lip Fork cap O-Ring	Replace with new ones and apply oil.	Fork oil
Fork socket bolt thread		Screw locker

Wirings (Routing Diagram)





- Alternator 3P (Black) coupler
- Regulator/Rectifier Connector

