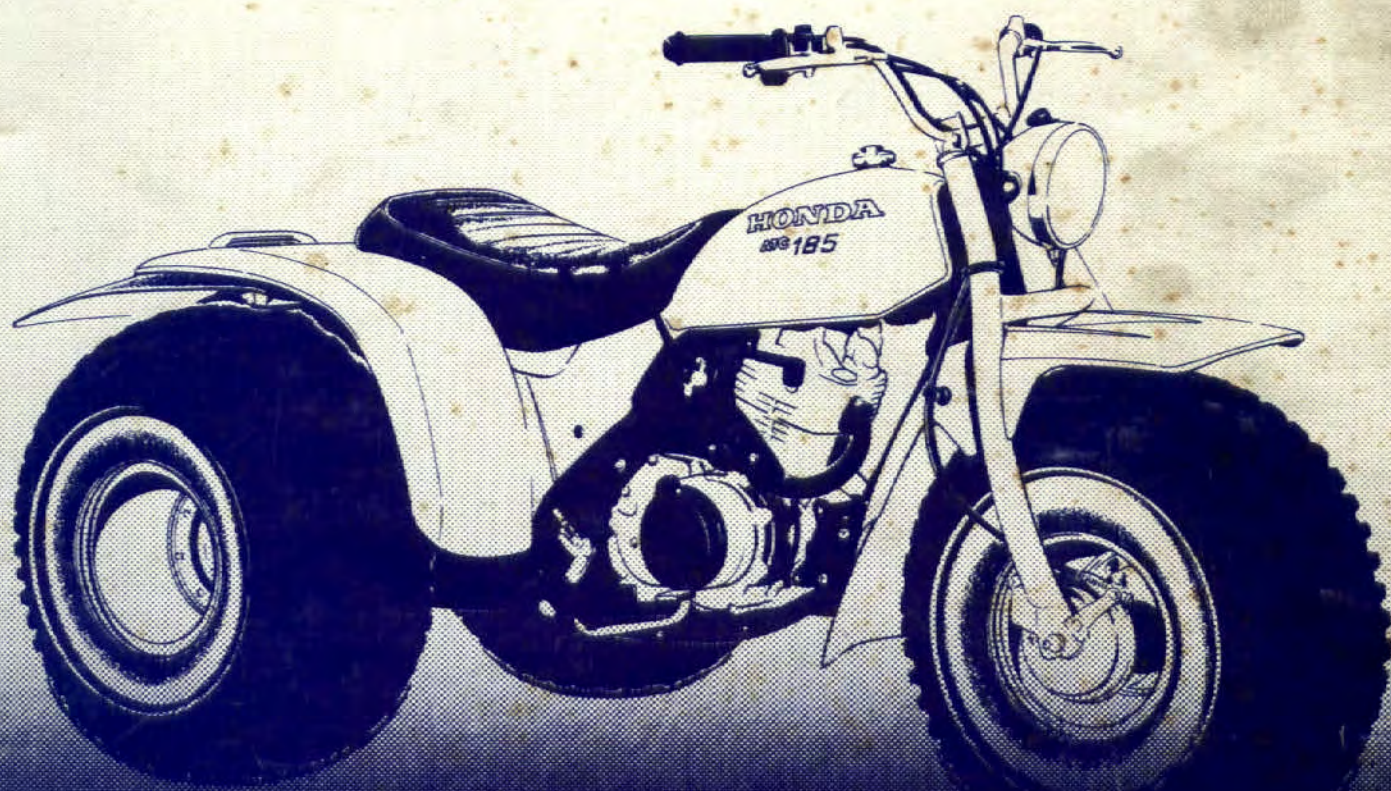


Official

HONDA

SHOP MANUAL

ATC 185
ATC 185S
ATC 200



ATC 185 '80
ATC 185S/200 '81-83

IMPORTANT SAFETY NOTICE

 **WARNING** Indicates a strong possibility of severe personal injury or loss of life if instructions are not followed.

CAUTION: Indicates a possibility of personal injury or equipment damage if instructions are not followed.

NOTE: Gives helpful information.

Detailed descriptions of standard workshop procedures, safety principles and service operations are not included. It is important to note that this manual contains *some* warnings and cautions against some specific service methods which could cause **PERSONAL INJURY** to service personnel or could damage a vehicle or render it unsafe. Please understand that those warnings could not cover all conceivable ways in which service, whether or not recommended by Honda might be done or of the possibly hazardous consequences of each conceivable way, nor could Honda investigate all such ways. Anyone using service procedures or tools, whether or not recommended by Honda *must satisfy himself thoroughly* that neither personal safety nor vehicle safety will be jeopardized by the service method or tools selected.



HOW TO USE THIS MANUAL

Sections 1 through 3 apply to the whole motorcycle, while sections 4 through 15 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 and all the required specifications, torque values, general instructions, tools and troubleshooting for the section. The subsequent pages give detailed procedures.

If you don't know the source of the trouble, see section 18, TROUBLESHOOTING.

Read Technical Feature section 17 if you are unfamiliar with the ATC185/200 clutch operation.

Refer to the addendums at the back of the manual for 1981 and subsequent model year information.

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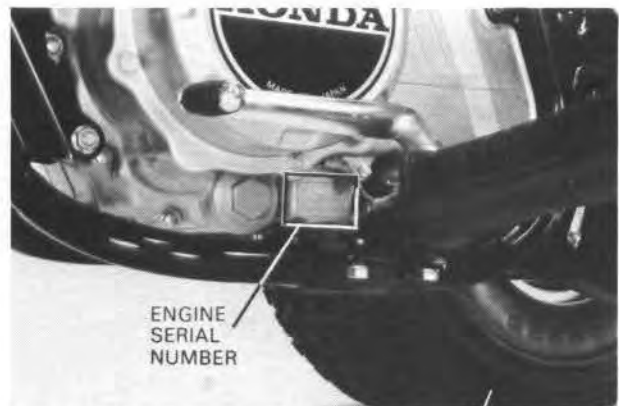
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MODEL IDENTIFICATION



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



The engine serial number is stamped on the crankcase lower left side.



The carburetor identification number is on the carburetor body right 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 work area.

SERVICE RULES

1. Use genuine HONDA or HONDA-recommended parts and lubricants or their equivalent. Parts that don't meet HONDA's design specifications may damage the motorcycle.
2. Use the special tools designed for this product to avoid damage and incorrect assembly.
3. Use only metric tools when servicing this motorcycle. Metric bolts, nuts, and screws are not interchangeable with English fasteners.
4. Install new gaskets, O-rings, cotter pins, and lock plates when reassembling.
5. When tightening bolts or nuts, begin with the larger-diameter or inner bolt first. Then tighten to the specified torque diagonally in 2-3 steps, unless a particular sequence is specified.
6. Clean parts in non-flammable or high flash point solvent upon disassembly.
7. Lubricate any sliding surfaces before reassembly.
8. After reassembly, check all parts for proper installation and operation.



SPECIFICATIONS

<p>DIMENSIONS</p>	<p>Overall length Overall width Overall height Wheel base Rear tread Seat height Foot peg height Ground clearance Dry weight</p>	<p>1,820 mm (71.7 in) 1,110 mm (43.7 in) 995 mm (39.2 in) 1,160 mm (45.7 in) 805 mm (31.5 in) 680 mm (26.8 in) 275 mm (10.8 in) 130 mm (5.1 in) 137 kg (302 lb)</p>
<p>FRAME</p>	<p>Type Rim size Front Rear Front tire size, pressure Rear tire size, pressure Front brake Rear brake Fuel capacity Fuel reserve capacity Caster Trail</p>	<p>Semi-double cradle 10.0 x 9.0 10.0 x 9.0 25 x 12-9, 0.15 kg/cm² (2.2 psi) 25 x 12-9, 0.15kg/cm² (2.2 psi) Cable operated leading shoe Cable operated leading shoe 8.8 liters (2.3 US gal, 1.9 Imp gal) 1.6 liters (0.42 US gal, 0.35 Imp gal) 70°30' 30 mm (1.2 in)</p>
<p>ENGINE</p>	<p>Type Cylinder arrangement Bore x stroke Displacement Compression ratio Valve train Maximum horsepower Maximum torque Oil capacity Lubrication system Cylinder compression Intake valve Exhaust valve Valve clearance (Cold)</p>	<p>Gasoline, air-cooled 4-stroke Single cylinder inclined 15° 63.0 x 57.8 mm (2.48 x 2.28 in) 180.2 cc (11.01 cu in) 8.0:1 Overhead camshaft chain driven 13 BHP/7,000 rpm 1.38 kg-m/5,500 rpm (9.26 ft-lb/5,500 rpm) 1.35 lit (1.43 US qt, 1.19 Imp qt) 0.95 lit (1.00 US qt, 0.84 Imp qt) after draining Forced pressure and wet sump 11 ± 1.0 kg/cm² (156 ± 14 psi) 5° BTDC 35° ABDC 35° BBDC 5° ATDC 0.05 mm (0.002 in) 0.05 mm (0.002 in)</p>
<p>CARBURETOR</p>	<p>Type Main jet Pilot screw opening Float level Idle speed Venturi dia.</p>	<p>Piston valve # 95 2 turns out 12.5 mm (0.49 in) 1,400 ± 100 rpm 22 mm (0.9 in)</p>



<p>DRIVE TRAIN</p>	<p>Clutch Transmission Primary reduction Gear ratio</p> <p style="text-align: center;">I II III IV V</p> <p>Final reduction Gearshift pattern Drive chain</p>	<p>Wet multi-plate, semi-automatic 5-speed constant mesh 3.333 2.769 1.722 1.273 1.000 0.815 4.273</p> <p>Left foot operated return system, N-1-2-3-4-5 520, 90 L</p>
<p>ELECTRICAL</p>	<p>Ignition Ignition timing</p> <p style="text-align: center;">Initial Full advance</p> <p>Alternator Spark plug</p> <p style="text-align: center;">Capacity USA model Canada model</p> <p>Spark plug gap Headlight Taillight</p>	<p>CDI 10° ± 2° BTDC at idle 30° ± 2° BTDC at 3,350 rpm A. C. generator, 12V 50W/5,000 rpm X24ES-U (ND) D8EA (NGK) X24ESR-U (ND) DR8ES-L (NGK) 0.6-0.7 mm (0.024-0.028 in) 12V 45W/45W 12V (5W)</p>

**GENERAL INFORMATION****TORQUE VALUES****ENGINE**

Item	Q'ty	Thread Size (mm)	Torque	
			kg-m	ft-lb
Cylinder head bolt	4	8 x 1.25	1.8-2.0	13-14
Clutch lock nut	1	16 x 1.0	4.0-5.0	29-36
Centrifugal clutch lock nut	1	22 x 1.25	10.5-11.5	76-83
Clutch adjuster lock nut	1	8 x 1.25	1.9-2.5	14-18
A. C. generator rotor nut	1	12 x 1.25	6.5-7.5	47-54
Valve adjuster cover	2	36 x 1.5	1.0-1.4	7-14
Oil filler cap	1	36 x 1.5	1.0-2.0	7-10
Spark plug	1	12 x 1.25	1.2-1.9	9-14
Cam sprocket bolt	2	6 x 1.0	0.8-1.2	6-9
Oil filter rotor cover bolt	3	6 x 1.0	1.0-1.4	7-10
Clutch lifter stopper bolt	1	8 x 1.25	1.8-2.5	13-18
Gearshift drum stopper arm bolt	1	6 x 1.0	1.0-1.4	7-10
Pulser generator screw	2	5 x 0.5	0.4-0.7	2.9-4.3
Pulser cover screw	2	5 x 0.8	0.4-0.7	2.9-4.3
Valve adjuster lock nut	2	6 x 0.75	1.5-1.8	11-13
Gearshift stopper plate bolt	1	6 x 1.0	0.8-1.2	6-9
Clutch bolt	4	6 x 1.0	1.0-1.4	7-10
Recoil starter driven pulley	4	6 x 1.0	1.0-1.4	7-10
Cam chain tensioner adjust bolt	1	16 x 1.0	1.5-2.2	11-16
Cam chain tensioner check bolt	1	6 x 1.0	0.8-1.0	6-7
Decompressor lever pivot bolt	1	6 x 1.0	0.5-0.7	3.6-5.1
Drive sprocket bolt	3	6 x 1.0	0.8-1.2	6-9
Right crankcase protector screw	3	Self tapping screw	0.3-0.7	2.2-5.1

FRAME

Item	Q'ty	Thread Size (mm)	Torque	
			kg-m	ft-lb
Handlebar upper holder bolt	4	6 x 1.0	0.7-1.2	5-9
Handlebar lower holder nut	2	10 x 1.25	4.0-4.8	29-35
Fork top bridge bolt	2	10 x 1.25	4.0-4.8	29-35
Steering stem nut	1	22 x 1.0	5.0-7.0	36-51
Front axle nut	2	12 x 1.25	5.0-7.0	36-51
Front hub nut	4	8 x 1.25	1.9-2.5	14-18
Front brake drum bolt	3	8 x 1.25	1.9-2.5	14-18
Front brake panel bolt	1	8 x 1.25	2.1-2.7	15-20
Front/rear rim nut	12	8 x 1.25	1.9-2.5	14-18
Damper holder nut	5	8 x 1.25	2.1-2.7	15-20
Rear brake drum nut	2	32 x 1.0	6.0-8.0	43-58
Rear hub nut	8	8 x 1.25	1.9-2.5	14-18
Rear axle nut	2	14 x 1.5	6.0-8.0	43-58
Bearing holder bolt	4	12 x 1.25	5.0-7.0	36-51



Item	Q'ty	Thread Size (mm)	Torque	
			kg-m	ft-lb
Front engine hanger nut	2	10 x 1.25	4.0-4.8	29-35
Front engine hanger nut	2	8 x 1.25	2.3-2.7	17-20
Rear engine hanger nut	2	10 x 1.25	4.0-4.8	29-35
Upper engine hanger nut	1	8 x 1.25	1.9-2.5	14-18
Carburetor nut	2	6 x 1.0	0.6-0.9	4.3-6.5
Gearshift pedal	1	6 x 1.0	0.7-1.2	5-8.7
Foot peg bolt	8	8 x 1.25	1.9-2.5	14-18
Mud guard bolt	11	5 x 0.8	0.4-0.8	2.9-5.8
Drive chain slider nut	2	6 x 1.0	0.6-0.9	4.3-6.5

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

STANDARD TORQUE VALUES

Item	Torque kg-m (ft-lb)	Item	Torque kg-m (ft-lb)
5 mm bolt, nut	0.45-0.6 (3.3-4.3)	5 mm screw	0.35-0.5 (2.5-3.6)
6 mm bolt, nut	0.8-1.2 (5.8-8.7)	6 mm screw	0.7-1.1 (5-8)
8 mm bolt, nut	1.8-2.5 (13-18)	6 mm flange bolt, nut	1.0-1.4 (7.2-10)
10 mm bolt, nut	3.0-4.0 (22-29)	8 mm flange bolt, nut	2.4-3.0 (17-22)
12 mm bolt, nut	5.0-6.0 (36-43)	10 mm flange bolt, nut	3.0-4.0 (22-29)



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