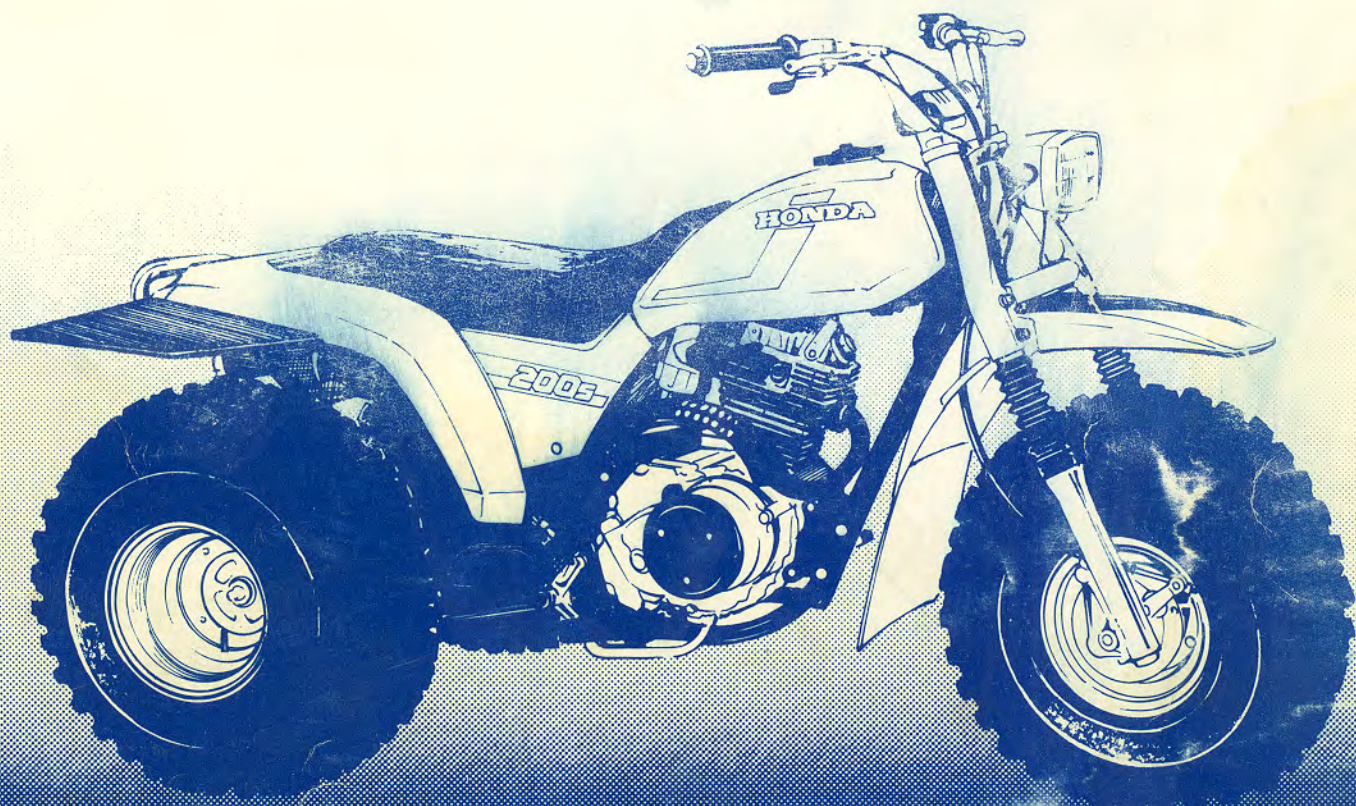


Official

HONDA

SHOP MANUAL

ATC200S



'84~'86

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 methods or tools selected.

HOW TO USE THIS MANUAL

Sections 1 through 3 apply to the whole ATC, while sections 4 through 16 describe parts of the ATC, 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 17, TROUBLESHOOTING.

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HONDA MOTOR CO., LTD.
SERVICE PUBLICATIONS OFFICE

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1. GENERAL INFORMATION

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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.

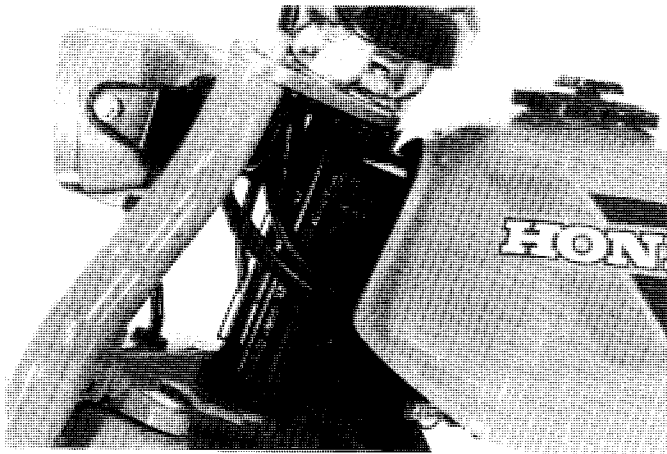
WARNING

Gasoline is extremely flammable and is explosive under certain conditions. Do not smoke or allow flames or sparks in your work area.

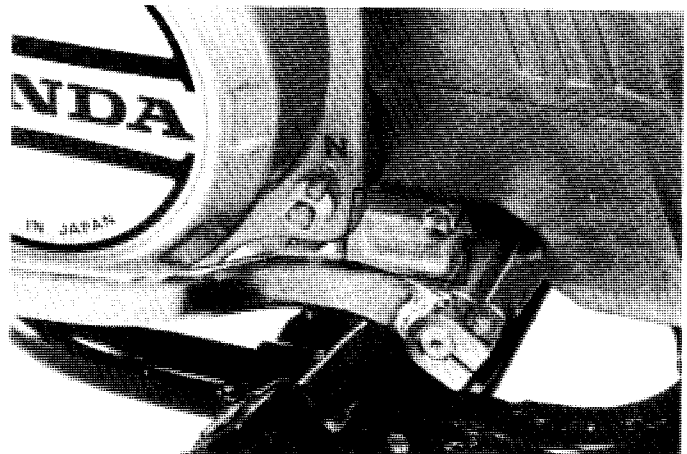
SERVICE RULES

1. Use genuine Honda or Honda-recommended parts and lubricants or their equivalents. Parts that do not meet Honda's design specifications may damage the ATC.
2. Use the special tools designed for this product.
3. This ATC uses only metric fasteners ; use only metric tools when servicing.
4. Install new gaskets, O-rings, cotter pins, lock plates, etc. when reassembling.
5. When tightening bolts or nuts, begin with 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 left side of the steering head.



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



The carburetor identification number is on right side of the carburetor body.

SPECIFICATIONS

ITEM			
DIMENSIONS	Overall length	1,735 mm (68.3 in)	
	Overall width	1,015 mm (40.0 in)	
	Overall height	980 mm (38.6 in)	
	Wheel base	1,130 mm (44.5 in)	
	Rear tread	760 mm (29.9 in)	
	Seat height	665 mm (26.2 in)	
	Foot peg height	267 mm (10.5 in)	
	Ground clearance	115 mm (4.9 in)	
	Dry weight	125 kg (276 lb)	
FRAME	Type	Semi-double cradle	
	Rim size	8.25×8.0	
		Front	8.25×8.0
		Rear	8.25×8.0
	Tires	Front: size-pressure	22 x 11-8 — 2.2 psi (15 kPa, 0.15 kg/cm ²)
		Rear: size-pressure	22 x 11-8 — 2.2 psi (15 kPa, 0.15 kg/cm ²)
	Standard tire circumference	'84~'85	1,759 mm (69.3 in)
		After '85	1,750 mm (68.9 in)
	Front brake		Cable operated leading shoe
	Rear brake		Cable operated leading shoe
	Fuel capacity	'84 :	8.2 liters (2.17 US gal, 1.80 Imp gal)
		After '84 :	7.8 liters (2.06 US gal, 1.72 Imp gal)
	Fuel reserve capacity		1.6 liters (0.42 US gal, 0.35 Imp gal)
Caster		69°	
Trail		34.5 mm (1.35 in)	
Front oil capacity		90±2.5 cc (3.0±0.08 OZ)	
ENGINE	Type	Gasoline, air-cooled 4-stroke, OHC	
	Cylinder arrangement	Single cylinder inclined 15°	
	Bore x stroke	65×57.8 mm (2.56×2.28 in)	
	Compression ratio	7.8:1	
	Displacement	192 cc (11.7 cu in)	
	Valve train	Chain driven overhead camshaft	
	Maximum horsepower	13.5 BHP/7,000rpm	
	Maximum torque	1.5 kg-m/6,000rpm (11 ft-lb/6,000rpm)	
	Oil capacity	After disassembly	1.35 liters (1.4 US qt, 1.1 Imp qt)
		After draining	0.95 liters (1.0 US qt, 0.8 Imp qt)
	Lubrication system		Forced pressure and wet sump
	Cylinder compression		11.0±1.0 kg/cm ² (156±14 psi)
	Intake valve	Opens	5° BTDC
		Closes	35° ABDC
	Exhaust valve	Opens	35° BBDC
	Closes	5° ATDC	
Valve clearance	Intake	0.05 mm (0.002 in)	
(Cold)	Exhaust	0.05 mm (0.002 in)	
CARBURETOR	Type	Piston valve	
	Main jet	#100	
	Pilot screw opening	2-¼ turns out	
	Float level	14.0 mm (0.55 in)	
	Idle speed	1,400 ± 100 rpm	
	Venturi diameter	22 mm (0.9 in)	

GENERAL INFORMATION

ITEM			
DRIVE TRAIN	Clutch	Wet multi-plate, semi-automatic	
	Transmission	5-speed constant mesh	
	Primary reduction	3.333	
	Gear ratio	I	2.769
		II	1.722
		III	1.273
		IV	1.000
V		0.815	
Final reduction	3.909		
Gearshift pattern	Left foot operated return system, N-1-2-3-4-5		
Drive chain	520, 84 L		
ELECTRICAL	Ignition	CDI	
	Ignition timing	Initial	10° ± 2° BTDC at idle
		Full advance	30° ± 2° BTDC at 3,350rpm
	Alternator	Capacity	A.C. generator, 12V 50W/5,000rpm
	Spark plug		X24ESR-U (ND) DR8ES-L (NGK)
	Spark plug gap		0.6 – 0.7 mm (0.024 – 0.028 in)
Headlight		12V 45W/45W	
Tailight		12V 5W	

TORQUE VALUES**ENGINE**

Item	Q'ty	Thread Size (mm)	Torque		
			N·m	kg·m	ft·lb
Cylinder head cover cap nut	4	8	28–30	2.8–3.0	20–22
socket bolt	4	6	8–12	0.8–1.2	6–9
Clutch lock nut	1	16 x 1.0	50–60	5.0–6.0	36–43
Centrifugal clutch lock nut	1	22 x 1.25	105–115	10.5–11.5	76–83
Clutch adjuster lock nut	1	8 x 1.25	19–25	1.9–2.5	14–18
A.C. generator rotor nut	1	12 x 1.25	65–75	6.5–7.5	47–54
Valve adjuster cover	2	36 x 1.5	10–14	1.0–1.4	7–10
Oil filter cap	1	36 x 1.5	9–15	0.9–1.5	6.5–11
Spark plug	1	12 x 1.25	12–19	1.2–1.9	9–14
Cam sprocket bolt	2	6 x 1.0	8–12	0.8–1.2	6–9
Oil filter rotor cover bolt	3	6 x 1.0	10–14	1.0–1.4	7–10
Clutch lifter stopper bolt	1	8 x 1.25	18–25	1.8–2.5	13–18
Gearshift drum stopper arm bolt	1	6 x 1.0	10–14	1.0–1.4	7–10
Pulse generator screw	2	5 x 0.5	4–7	0.4–0.7	2.9–5.0
Pulse cover screw	2	5 x 0.8	4–7	0.4–0.7	2.9–5.0
Valve adjuster lock nut	2	6 x 0.75	15–18	1.5–1.8	11–13
Gearshift stopper plate bolt	1	6 x 1.0	8–12	0.8–1.2	6–9
Clutch bolt	4	6 x 1.0	10–14	1.0–1.4	7–10
Recoil starter driven pulley	4	6 x 1.0	10–14	1.0–1.4	7–10
Cam chain tensioner adjust bolt	1	16 x 1.0	15–22	1.5–2.2	11–16
Cam chain tensioner check bolt	1	6 x 1.0	8–10	0.8–1.0	6–7
Decompressor lever pivot bolt	1	6 x 1.0	5–7	0.5–0.7	3.6–5.1
Drive sprocket bolt	3	6 x 1.0	8–12	0.8–1.2	6–9
Right crankcase protector screw	3	Self tapping screw	3–17	0.3–0.7	2.2–5.1

FRAME

Item	Q'ty	Thread Size (mm)	Torque		
			N·m	kg·m	ft·lb
Handlebar upper holder bolt	4	8 x 1.25	18–30	1.8–3.0	13–22
Handlebar lower holder nut	2	10 x 1.25	40–48	4.0–4.8	29–35
Fork top bridge bolt	2	12 x 1.25	50–70	5.0–7.0	36–51
Steering stem nut	1	22 x 1.0	50–70	5.0–7.0	36–51
Front axle	1	14 x 1.5	70–110	7.0–11.0	51–80
Front hub nut	4	8 x 1.25	20–25	2.0–2.5	14–18
Front brake drum bolt	4	8 x 1.25	20–25	2.0–2.5	14–18
Front axle holder nuts	4	6 x 1.0	10–14	1.0–1.4	7–10
Front/rear rim nut	12	8 x 1.25	20–25	2.0–2.5	14–18
Damper holder nut	5	8 x 1.25	25–30	2.5–3.0	18–22
Rear brake drum nut (Inner)	1	32 x 1.0	35–45	3.5–4.5	25–33
(Outer)	1	32 x 1.0	120–140	12.0–14.0	87–101
Rear hub nut (Rear wheel nut)	8	8 x 1.25	20–25	2.0–2.5	14–18
Rear axle nut	2	14 x 1.5	60–80	6.0–8.0	44–58
Bearing holder bolt	4	12 x 1.25	50–70	5.0–7.0	36–51
Front fork mounting bolt	4	1 x 1.25	40–50	4.0–5.0	29–36



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