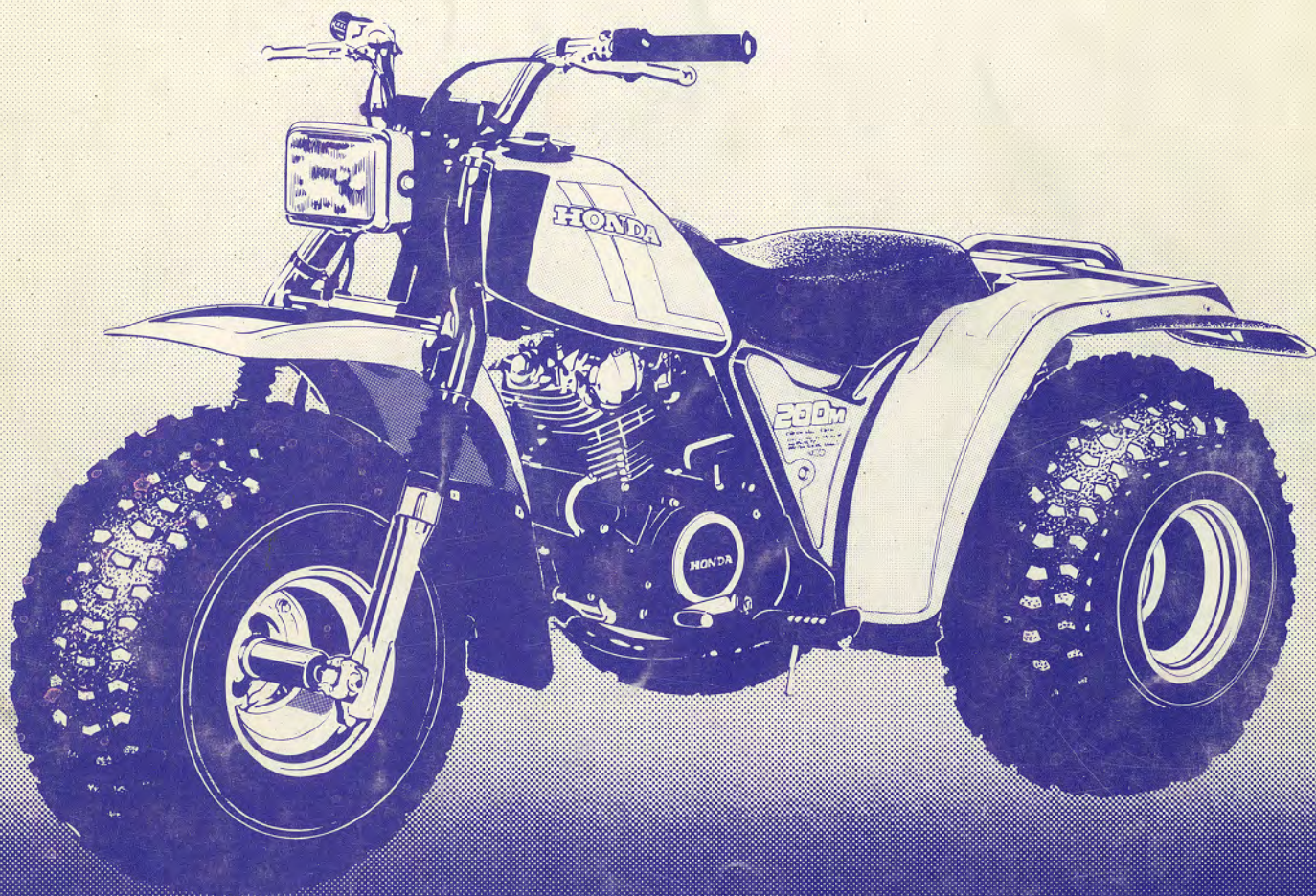


**Official**

# HONDA

## SHOP MANUAL

### ATC200M



**'84-'85**

## 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 possible 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 motorcycle, while sections 4 through 17 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.

All information, illustrations, directions and specifications included in this publication are based on the latest product information available at the time of approval for printing. Honda Motor Co., Ltd. reserves the right to make changes at any time without notice and without incurring any obligation whatever.

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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.*
- *The battery generates hydrogen gas which can be highly explosive. Do not smoke or allow flames or sparks near the battery, especially while charging it.*

### WARNING

- *Gasoline is extremely flammable and is explosive under certain conditions. Do not smoke or allow flames or sparks in your work area.*
- *The battery electrolyte contains sulfuric acid. Protect your eyes, skin and clothing. In case of contact, flush thoroughly with water and call a doctor if electrolyte gets in your eyes.*

## 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 ATC.
2. Use the special tools designed for this product to avoid damage and incorrect assembly.
3. Use only metric tools when servicing this ATC. 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 1-4 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><b>DIMENSIONS</b></p> | <p>Overall length<br/>Overall width<br/>Overall height<br/>Wheelbase<br/>Rear tread<br/>Seat height<br/>Foot peg height<br/>Ground clearance<br/>Dry weight</p>  | <p>1,855 mm (73.0 in)<br/>1,080 mm (42.5 in)<br/>1,005 mm (39.6 in)<br/>1,205 mm (39.6 in)<br/>800 mm (31.5 in)<br/>685 mm (27.0 in)<br/>260 mm (10.2 in)<br/>110 mm (4.3 in)<br/>149 kg (328 lb)</p>   |
| <p><b>FRAME</b></p>      | <p>Type<br/>Rim size<br/><br/>Front<br/>Rear<br/><br/>Front tire size, pressure<br/>Rear tire size, pressure<br/>Front brake<br/>Rear brake<br/>Fuel capacity '84:<br/>After '84:<br/><br/>Fuel reserve capacity<br/>Caster<br/>Trail</p>  | <p>Semi-double cradle<br/>9.2 x 9.0<br/>9.2 x 9.0<br/>25 x 12-9, 0.15 kg/cm<sup>2</sup> (2.2 psi)<br/>25 x 12-9, 0.15 kg/cm<sup>2</sup> (2.2 psi)<br/>Cable operated leading shoe<br/>Cable operated leading shoe<br/>11.5 liters (3.04 US gal, 2.53 Imp gal)<br/>10.5 liters (2.77 US gal, 2.31 Imp gal)<br/>1.0 liters (0.26 US gal, 0.22 Imp gal)<br/>69°<br/>10 mm (0.39 in)</p>  |
| <p><b>ENGINE</b></p>     | <p>Type<br/>Cylinder arrangement<br/>Bore x stroke<br/>Displacement<br/>Compression ratio<br/>Valve train<br/>Maximum horsepower<br/>Maximum torque<br/><br/>Oil capacity<br/><br/>Lubrication system<br/>Cylinder compression<br/>Intake valve<br/><br/>Exhaust valve<br/><br/>Valve clearance<br/>(Cold)</p> <p>OPENS<br/>CLOSES<br/>OPENS<br/>CLOSES<br/>Intake<br/>Exhaust</p> | <p>Gasoline, air-cooled 4-stroke<br/>Single cylinder inclined 15°<br/>65.0 x 57.8 mm (2.56 x 2.28 in)<br/>192 cc (11.7 cu in)<br/>7.8 : 1<br/>Overhead camshaft chain driven<br/>13.0 BHP/7,000 rpm<br/>1.46 kg-m/5,500 rpm<br/>(10.6 ft-lb/5,500 rpm)<br/>1.5 lit (1.59 US qt, 1.32 Imp qt)<br/>1.3 lit (1.37 US qt, 1.14 Imp qt)<br/>after draining<br/>Forced pressure and wet sump<br/>11.0 ± 1.0 kg/cm<sup>2</sup> (156 ± 14 psi)<br/>5° BTDC<br/>35° ABDC<br/>35° BBDC<br/>5° ATDC<br/>} at 1 mm lift<br/>0.05 mm (0.002 in)<br/>0.05 mm (0.002 in)</p> |
| <p><b>CARBURETOR</b></p> | <p>Type<br/>Venturi dia.<br/>Main jet<br/>Pilot screw opening<br/>Jet needle<br/>Float level<br/>Idle speed</p>  | <p>Piston valve<br/>22 mm (0.9 in)<br/>#95<br/>2-1/8 turns out<br/>3rd<br/>14 mm (0.55 in)<br/>1,400 ± 100 rpm</p>  |

## GENERAL INFORMATION

|                    |  |  |
|--------------------|--|--|
| <p>DRIVE TRAIN</p> | <p>Clutch<br/>Transmission<br/>Primary reduction<br/>Gear ratio<br/>(Posi-torque gear ratio)</p> <p style="text-align: center;">I<br/>II<br/>III<br/>IV<br/>V</p> <p>Final reduction<br/>Gearshift pattern<br/>Drive chain</p> | <p>Wet multi-plate, semi-automatic<br/>5-speed constant mesh<br/>3.333 : 1<br/>2.769 : 1<br/>1.722 : 1<br/>1.273 : 1<br/>1.000 : 1<br/>0.815 : 1<br/>4.273 : 1<br/>Left foot operated return system, N-1-2-3-4-5<br/>520, 92 Links</p> |
| <p>ELECTRICAL</p>  | <p>Ignition<br/>Ignition timing<br/>Initial<br/>Full advance<br/>Capacity</p> <p>Alternator<br/>Battery<br/>Spark plug</p> <p>Spark plug gap<br/>Headlight<br/>Taillight</p>   | <p>CDI<br/>10° ± 2° BTDC at idle<br/>30° ± 2° BTDC at 3,350 rpm<br/>70 W/5,000 rpm<br/>12V-14 AH<br/>DR8ES-L (NGK)<br/>X24ESR-U (ND)<br/>0.6–0.7 mm (0.024–0.028 in)<br/>12 V 45 W/45 W<br/>12 V 5 W</p>                               |

# TORQUE VALUES

## ENGINE

| Item                              | Q'ty | Thread Size (mm)   | Torque  |           |       |
|-----------------------------------|------|--------------------|---------|-----------|-------|
|                                   |      |                    | N·m     | kg·m      | ft·lb |
| Cylinder head cap nut             | 4    | 8 x 1.25           | 28-30   | 2.8-3.0   | 20-22 |
| 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 |
| Alternator flywheel bolt          | 1    | 8 x 1.25           | 40-50   | 4.0-5.0   | 29-36 |
| Valve adjuster cover              | 2    | 36 x 1.5           | 10-14   | 1.0-1.4   | 7-10  |
| Oil filter screen cap             | 1    | 36 x 1.5           | 9-15    | 0.9-1.5   | 7-11  |
| 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 0.8            | 4-7     | 0.4-0.7   | 2.9-5 |
| Pulse cover screw                 | 2    | 5 x 0.8            | 4-7     | 0.4-0.7   | 2.9-5 |
| 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   |
| Cam chain tensioner adjuster 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 guide bolt     | 1    | 6 x 1.0            | 5-7     | 0.5-0.7   | 3.6-5 |
| Right crankcase protector screw   | 3    | Self tapping screw | 3-7     | 0.3-0.7   | 2.2-5 |

## 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  |
| Rear brake drum nut (INNER) | 1    | 32 x 1.0         | 35-45   | 3.5-4.5   | 25-33  |
| (OUTER)                     |      |                  | 120-140 | 12.0-14.0 | 87-101 |
| Rear hub 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   | 43-58  |
| Bearing holder bolt         | 4    | 12 x 1.25        | 50-70   | 5.0-7.0   | 36-51  |
| Front fork mounting bolt    | 4    | 10 x 1.25        | 40-50   | 4.0-5.0   | 29-36  |

## GENERAL INFORMATION

| Item                         | Q'ty | Thread Size<br>(mm) | Torque |          |         |
|------------------------------|------|---------------------|--------|----------|---------|
|                              |      |                     | N·m    | kg·m     | ft·lb   |
| Front engine hanger nut      | 2    | 10 x 1.25           | 40–48  | 4.0–4.8  | 29–35   |
| Front engine hanger nut      | 2    | 8 x 1.25            | 23–27  | 2.3–2.7  | 17–20   |
| Rear engine hanger nut upper | 1    | 10 x 1.25           | 40–48  | 4.0–4.8  | 29–35   |
| Rear engine hanger nut lower | 1    | 10 x 1.25           | 60–80  | 6.0–8.0  | 44–57   |
| Upper engine hanger nut      | 1    | 8 x 1.25            | 20–25  | 2.0–2.5  | 14–18   |
| Carburetor nut               | 2    | 6 x 1.0             | 6–9    | 0.6–0.9  | 4.5–7   |
| Gearshift pedal              | 1    | 6 x 1.0             | 10–14  | 1.0–1.4  | 7–10    |
| Foot peg bolt                | 8    | 8 x 1.25            | 20–25  | 2.0–2.5  | 14–18   |
| Drive chain slider nut       | 2    | 6 x 1.0             | 6–9    | 0.6–0.9  | 4.5–7   |
| Front axle holder nut        | 4    | 6 x 1.0             | 10–14  | 1.0–1.4  | 7–10    |
| Air cleaner cover wing bolt  | 4    | 6 x 1.0             | 1.5–3  | 0.15–0.3 | 1.1–2.2 |
| Driven sprocket damper nut   | 4    | 8 x 1.25            | 25–30  | 2.5–3.0  | 18–22   |

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 N·m (kg·m, ft·lb)  | Item                   | Torque N·m (kg·m, ft·lb)  |
|-----------------|---------------------------|------------------------|---------------------------|
| 5 mm bolt, nut  | 4.5–6 (0.45–0.6, 3.3–4.3) | 5 mm screw             | 3.5–5 (0.35–0.5, 2.5–3.6) |
| 6 mm bolt, nut  | 8–12 (0.8–1.2, 6–9)       | 6 mm screw             | 10–14 (1.0–1.4, 7–10)     |
| 8 mm bolt, nut  | 18–25 (1.8–2.5, 13–18)    | 6 mm flange bolt, nut  | 10–14 (1.0–1.4, 7.2–10)   |
| 10 mm bolt, nut | 30–40 (3.0–4.0, 22–29)    | 8 mm flange bolt, nut  | 24–30 (2.4–3.0, 17–22)    |
| 12 mm bolt, nut | 50–60 (5.0–6.0, 36–43)    | 10 mm flange bolt, nut | 30–40 (3.0–4.0, 22–29)    |



## TOOLS

## SPECIAL

| Description                 | Tool No.      | Alternative                                 | Ref. page  |
|-----------------------------|---------------|---|------------|
| Valve guide reamer, 5.48 mm | 07984-0980000 |   | 6-10       |
| Clutch center holder        | 07923-9580000 |   | 8-12, 8-15 |
| Lock nut wrench, 30 mm      | 07907-PD10000 | Equivalent commercially available in U.S.A. | 8-6, 8-10  |
| Ball race remover           | 07944-1150001 | M9360-277-91774 (U.S.A.)                    | 11-28      |
| Universal bead breaker      | GN-AH-958-BB1 | Available in U.S.A. only                    | 11-10      |
| Lock nut spanner, 41 mm     | 07916-9580200 | Not available in U.S.A.                     | 12-10      |
| Lock nut wrench, 41 mm      | 07916-9580300 | 07916-9580400                               | 12-10      |
| Bearing remover, 17 mm      | 07936-3710300 |   | 8-5        |
| Bearing remover handle      | 07936-3710100 |   | 8-5        |
| Sliding weight              | 07741-0010201 | 07936-3710200                               | 8-5        |
| Bearing remover, 15 mm      | 07936-KC10000 |   | 10-8       |
| Hollow set wrench, 6 mm     | 07917-3230000 | Equivalent commercially available in U.S.A. | 11-20      |
| Digital Multi-tester        | KS-AHM-32-003 | U.S.A. only                                 | 14-3       |

## COMMON

| Description                        | Tool No.      | Alternative   | Ref. page    |
|------------------------------------|---------------|---|--------------|
| Float level gauge                  | 07401-0010000 |   | 4-9          |
| Pin spanner                        | 07702-0020000 | 07902-0010000, 07702-0010000 or<br>M9361-412-099788 (Available in U.S.A.) | 11-28, 11-30 |
| Valve adjusting wrench, 10 x 12 mm | 07708-0030200 | 07908-3230000   | 3-6          |
| Valve adjuster A                   | 07708-0030300 |   | 3-6          |
| Lock nut wrench, 20 x 24 mm        | 07716-0020100 | 07916-3710000   | 8-12, 8-15   |
| Lock nut wrench, 30 x 32 mm        | 07716-0020400 | Commercially available in U.S.A.  | 11-27, 11-30 |
| Extension bar                      | 07716-0020500 | Commercially available in U.S.A.  | 8-6, 8-10    |
| Flywheel puller                    | 07733-0010000 | 07933-2000000   | 9-8          |
| Valve guide remover 5.5 mm         | 07742-0010100 | 07942-3290100   | 6-10         |
| Valve guide driver B               | 07742-0020200 | 07942-3290200   | 6-10         |
| Attachment, 37 x 40 mm             | 07746-0010200 |   | 11-29        |
| Driver                             | 07749-0010000 | 07949-6110000   | 8-5, 10-8    |
| Pilot, 15 mm                       | 07746-0040300 |   | 11-14        |
| Attachment, 42 x 47 mm             | 07746-0010300 |   | 10-8, 11-14  |
| Pilot, 35 mm                       | 07746-0040800 |   | 12-17        |
| Attachment, 62 x 68 mm             | 07746-0010500 |   | 12-17        |
| Valve spring compressor            | 07757-0010000 | 07957-3290001   | 6-8, 6-14    |
| Driver                             | 07746-0030100 |   | 10-4         |
| Pilot, 30 mm                       | 07746-0040700 |   | 10-8         |
| Attachment, 32 x 35 mm             | 07746-0010100 |   | 10-8         |
| Pilot, 20 mm                       | 07746-0040500 |   | 10-8         |
| Attachment, 52 x 55 mm             | 07746-0010400 |   | 10-8         |
| Attachment, 30 mm I.D.             | 07746-0030300 |   | 10-4         |
| Fork seal driver                   | 07747-0010100 | 07947-3550000   | 11-25        |
| Fork seal driver attachment C      | 07747-0010400 |   | 11-25        |
| Pilot, 17 mm                       | 07746-0040300 |   | 8-5          |

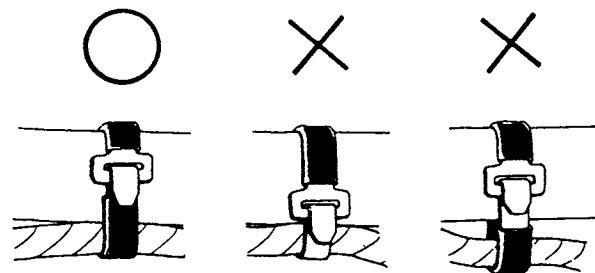
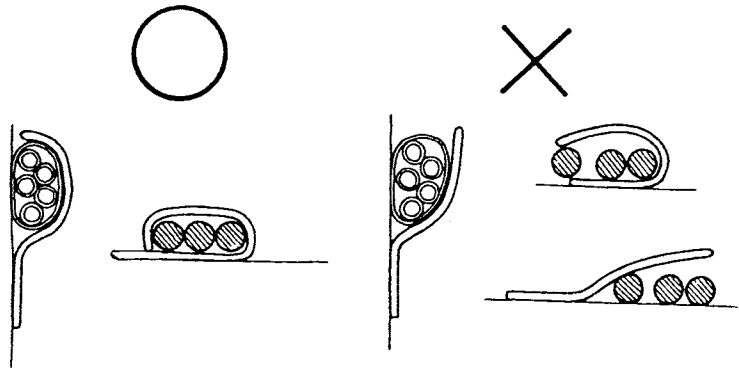
## GENERAL INFORMATION

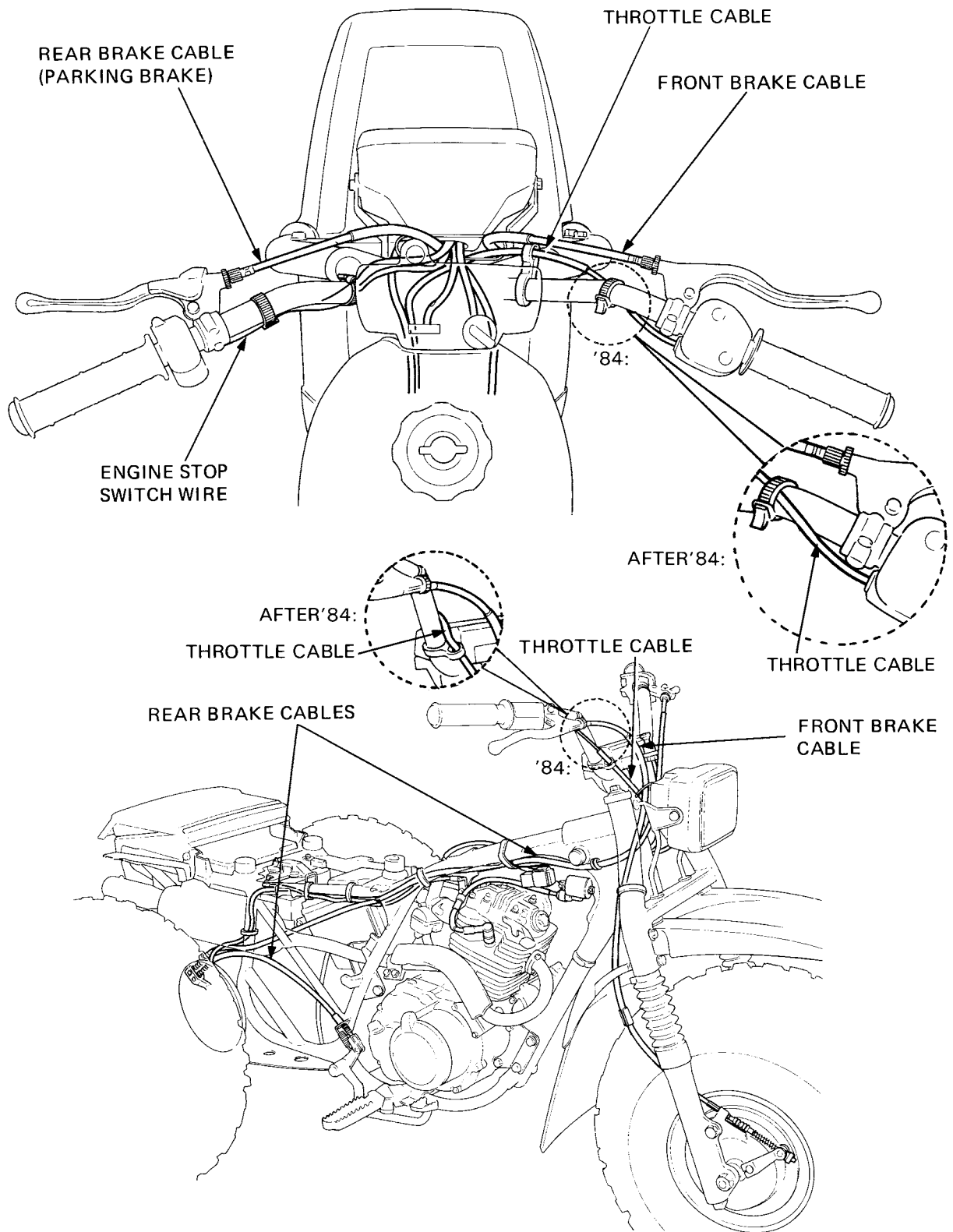
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### CABLE & HARNESS ROUTING

Note the following when routing cables and wire harnesses:

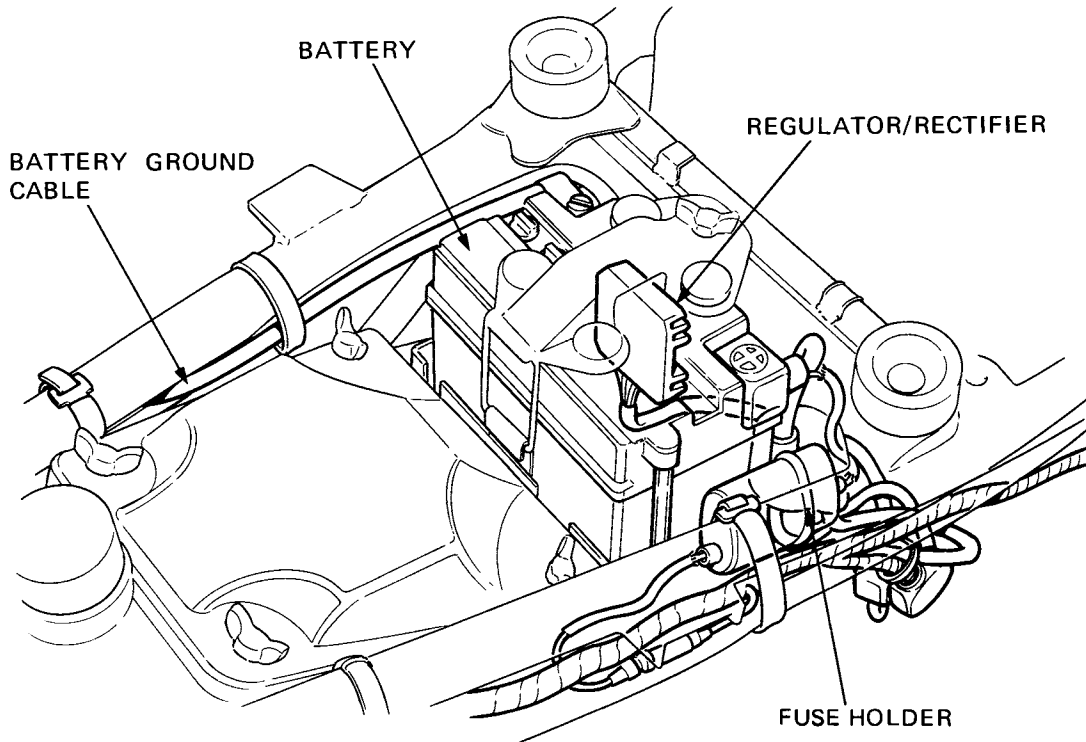
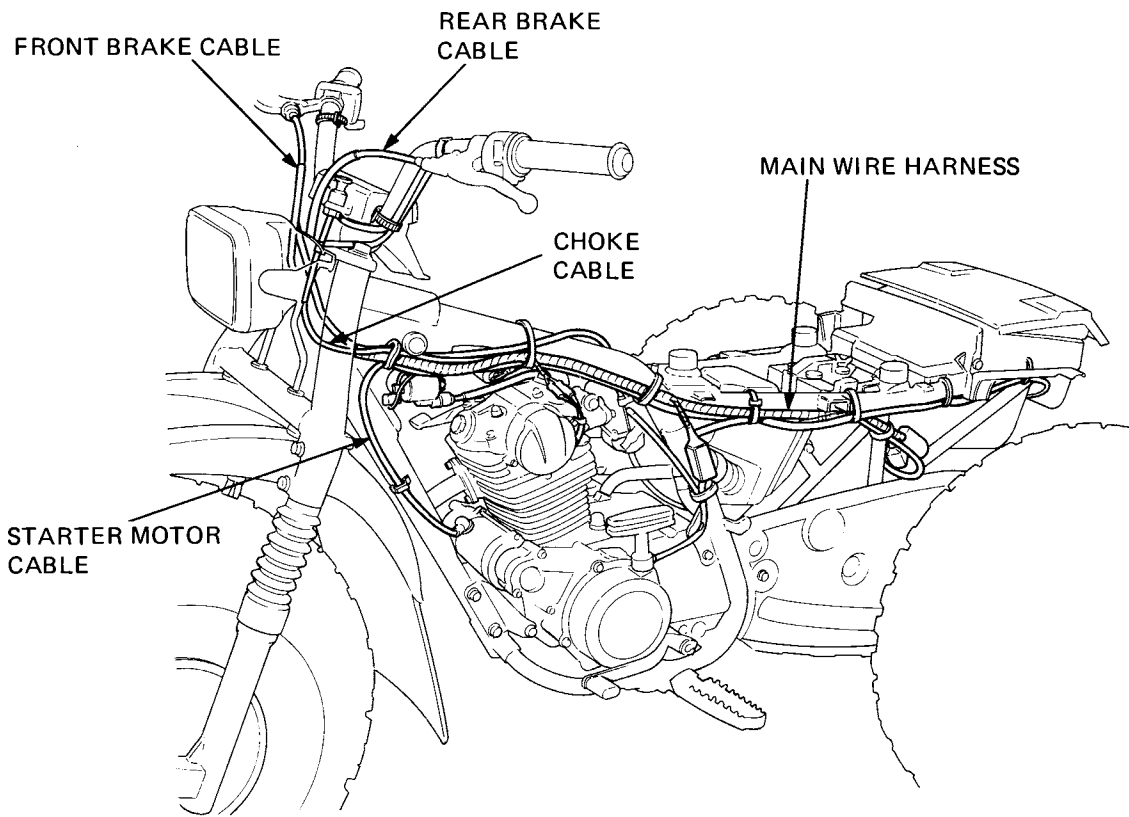
- A loose wire, harness or cable can be a safety hazard. After clamping, check each wire to be sure it is secure.
- Do not squeeze wires against the weld or end of its clamp when a weld-on clamp is used.
- Secure wires and wire harnesses to the frame with their respective wire bands at the designated locations. Tighten the bands so that only the insulated surfaces contact the wires or wire harnesses.
- Route harnesses so they are not pulled taut or have excessive slack.
- Protect wires and harnesses with electrical tape or tubes if they contact a sharp edge or corner. Clean the attaching surface thoroughly before applying tape.
- Do not use a wire or harness with a broken insulator. Repair by wrapping them with protective tape or replace them.
- Route wire harnesses to avoid sharp edges or corners.
- Also avoid the projected ends of bolts and screws.
- Keep wire harnesses away from the exhaust pipes and other parts that get hot.
- Be sure grommets are seated in their grooves properly.
- After clamping, check each harness to be certain that it is not interfering with any moving or sliding parts.
- Wire harnesses routed along the handlebars should not be pulled taut, have excessive slack, be pinched, or interfere with adjacent or surrounding parts in all steering positions.
- After routing, check that the wire harnesses are not twisted or kinked.





**GENERAL INFORMATION**

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