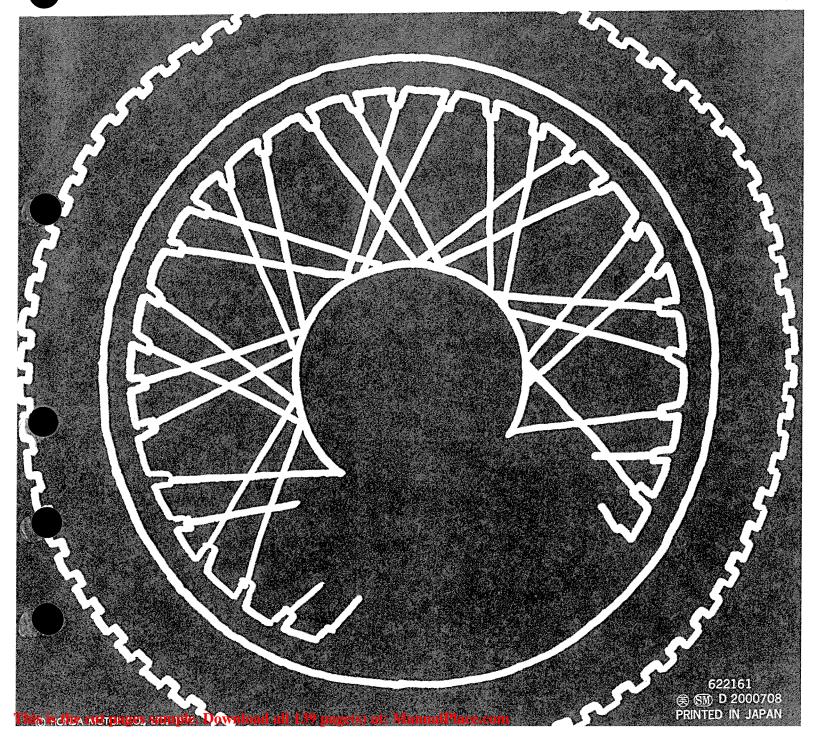
Honda Cb125 Cb160 Shop Manual 1972

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GB125-160

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## **PREFACE**

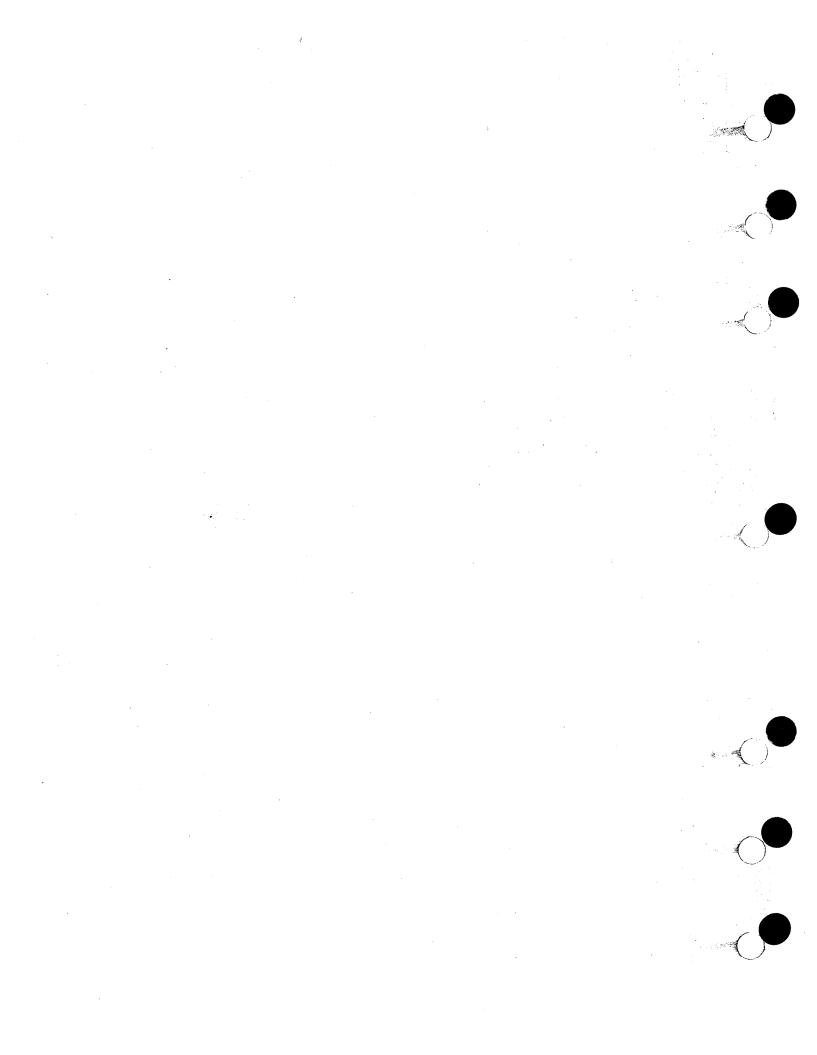
This manual has been complied as a guide for disassembly and assembly of Honda Models CB 125 and 160

The manual is divided into six sections, each of which gives details of construction, disassembly, and assembly. Required inspection and maintenance procedures are also included.

To further clarify the details contained herein, as many illustrations as possible were used.

This manual, if read carefully, will supply the techniques of correct maintenance and the fundamental technical knowledge required of both mechanics and sales starr.

SERVICE DEPARTMENT
FOREIGN SALES DIVISION
HONDA MOTOR CO., LTD.



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## I FEATURES

#### Features of CB 125 and 160

#### A. Engine

- 1. This engine is a parallel two cylinder engine, and each cylinder has special carburetor. The intake pipe is quite smooth, with low resistance, for high intake efficiency, and has an overhead cam for high rotation and high output.
- 2. The camshaft drive is by chain, and is between the right and left cylinders; and steady performance and durability maintain low cylinder temperature.
- 3. Lubricating oil is filtering by both filtering mesh and a centrifugal filter. It is forcefed by a plunger pump to the crankshaft, camshaft, and transmission shaft. Care has been given to wear and seizure resistance of each unit.
- 4. For power transmission from the crankshaft to the transmission shaft, double spur gears and shock absorbers reduce gear noise and increase durability by increasing the practical effective engagement ratio.

#### B. Frame

- 1. The frame has two sub-tubes which are horizontally extended from the head pipe and have high twist rigidity, in addition to strength required for a sports vehicle.
- The front wheel suspension is telescopic and the rear wheel is of swinging arm type, with hydraulic shock absorbers. Superb riding comfort, steering, and stability is obtained.
- 3. The brake unit is a "front two leading" type and rear leading, and trailing type. Due to the semimetallic lining used for brake lining, brake performance is high.
- 4. The handlebar of semi-raised type, which together with the large speedometer, enables the rider maintain a natural posture while cruising.

## II SPECIFICATIONS

| MODEL                                  | CB 125  | CB 160   |
|--|---|--|
| ENGINE                                 |   |  |
| Fuel                                   | Gasoline (petrol)                                 | •  |
| Cooling system and cycles              | Air-cooled, 4-stroke                              | Air-cooled, 4-stroke                                     |
| Number of cylinders and mounting angle | 2 cylinders, parallel 30° up from<br>horizontal   | 2 cylinders, parallel 30° up from horizontal             |
| Valves                                 | Overhead type                                     | Overhead type  |
| Combustion chamber                     | Semi-spherical                                    | Semi-spherical   |
| Cylinder capacity                      | 0.1246 lit (7.6 cu in)                            | 0.161lit (9.84 cu in)                                    |
| Bore $	imes$ Stroke                    | 44×41 mm (1.73×1.61 in)                           | $50 \times 41 \text{ mm } (1.97 \times 1.61 \text{ in})$ |
| Compression ratio                      | 9.0   | 8.5  |
| Compression                            | 10 kg/sq cm (141.9 psi)                           | 10 kg/sq cm (141.9 psi)                                  |
| Max, output                            | 15 hp/10500 rpm                                   | 16.5 hp/10,000 rpm                                       |
| Max. torque                            | 1.07 mkg (7.7 ft lbl/9200 rpm                     | 1.24 (9 ft. 1b )/8 500 rpm                               |
| Min. fuel consumption at full load     | 250 gr (8.8 oz)/hp/h                              | 250 gr (8.8 oz)/hp/h                                     |
| Starting                               | Electric motor and kick systems combined          | Electric motor and kick systems combined                 |
| Ignition                               | Battery spark                                     | Battery spark  |
| Spark timing                           | 5° to 45° before top dead center                  | 5° to 45° before top dead center                         |
| Spark coil                             |   |  |
| Model                                  | R 208 29700-097 CM 12                             | R 208 29700-097 CM 12                                    |
| Manufacturer                           | Kokusan Denki, Nihon Denso, Hitachi<br>Seisakusho | Kokusan Denki, Nihon Denso, Hitachi<br>Seisakusho        |
| Spark plug                             |   |  |
| Туре                                   | D-8 H   | D-8 H  |
| Manufacturer                           | Nihon Tokushu Togyo                               | Nihon Tokushu Togyo                                      |
| Carburetor                             |   |  |
| Type and number                        | Piston valve type, 2 each                         | Piston valve type, 2 each                                |
| Manufacturer                           | TK Kikaki (K.K.) Keihin Seiki (K.K.)              | TK Kikaki (K. K.) Keihin Seiki (K. K.)                   |
| Air cleaner                            |   |  |
| Туре                                   | Filter paper                                      | Filter paper   |
| Manufacturer                           | Tokyo Roki (K. K.)                                | Tokyo Roki (K. K.)                                       |
| Fuel tank capacity                     | 10.5 lit (2.8 US gal, 2.3 lmp gal)                | 10.5 lit (2.8 US gal, 2.3 lmp gal)                       |
| Lubrication system                     | Pump and splash system combined                   | Pump and splash system combined                          |
| Type of oil pump                       | Plunger   | Plunger  |
| Type of oil filter                     | Wire mesh and centrifugal system combined         | Wire mesh and centrifugal system combined                |
| Lubricating oil capacity               | 1.0 lit (.27 US gal .22 lmp gal)                  | 1.0 lit (.27 US gal ,22 lmp gal                          |
| Battery                                |   |  |
| Model and number                       | MBW 3-12 C, 1 each                                | MBW 3-12 C, 1 each                                       |
| Voltage/capacity                       | 12 V 9 AH   | 12 V 9 AH  |
|  |   |  |

| MODEL                                      | CB 125  | CB 160  |
|--|---|---|
| Chair                                      |   |   |
| Charging generator                         | FO.10 07000 ob. W107                              | 50 10 27000 024 V 107                             |
| Model                                      | EG 19 37000-024 K 107                             | EG 19 37000-024 K 107                             |
| Manufacturer                               | Kokusan Denki, Nihon Denso, Hitachi<br>Seisakusho | Kokusan Denki, Nihon Denso, Hitachi<br>Seisakusho |
| Starting mortor                            |   |   |
| Model                                      | CC 03 28000-111 \$106                             | CC 03 28000-111 \$106                             |
| Manufacturer                               | Kokusan Denki, Nihon Denso, Hitachi<br>Seisakusho | Kokusan Denki, Nihon Denso, Hitachi<br>Seisakusho |
| Power transmission device                  |   |   |
| Mechanism from engine to gear shifting     | Gear system                                       | Gear system                                       |
| Reduction ratio                            | 3.700   | 3.700   |
| Model of clutch                            | Wet multi-plate                                   | Wet multi-plate                                   |
| Transmission                               |   |   |
| Model                                      | Constant engaged gear system                      | Constant engaged gear system                      |
| Shifting                                   | Left foot system                                  | Left foot system                                  |
| Transmission gear ratio                    |   |   |
| first                                      | 2.769   | 2.769   |
| second                                     | 1.778   | 1.778   |
| third                                      | 1.318   | 1.318   |
| fourth  Mechanism from transmission device | 1.040<br>Chain                                    | 1.040<br>Chain                                    |
| to rear axle                               | . Chair   | Chair   |
| Reduction ratio                            | 2.625   | 2.625   |
| CHASSIS                                    |   |   |
| Dimensions                                 |   |   |
| Overall length                             | 1.947 m (6.39 ft)                                 | 1.947 m (6.39 ft)                                 |
| Overall width                              | 0.745 m (2.45 ft)                                 | 0.745 m (2.45 ft)                                 |
| Overall height                             | 0.990 m (3.25 ft)                                 | 0.990 m (3.25 ft)                                 |
| Wheelbase                                  | 1.277 m (5.08 ft)                                 | 1.277 m (5.08 ft)                                 |
| Ground clearance                           | 0.145 m (0.48 ft)                                 | 0.145 m (0.48 ft)                                 |
| Weight                                     |   |   |
| Weight unloaded                            | 127.0 kg (279 lb)                                 | 127.0 kg (279 lb)                                 |
| Number of riders                           | 2   | 2   |
| Weight distribution at no load, Front      | 60.5 kg (133 lb)                                  | 60.5 kg (133 lb)                                  |
| Rear                                       | 66.5 kg (146 lb)                                  | 66.5 kg (146 lb)                                  |
| Performance                                |   |   |
| Max. speed                                 | 130 km/h (81 mile/hr)                             | 135 km/h (85 mile/hr)                             |
| Fuel consumption ratio on paved road       | 65 km/lit (40 mile/gal)                           | 55 km/lit (35 mile/gal)                           |
| Climbing ability                           | 18°30′  | 18°30′  |
| Min turning radius                         | 2,120 mm (7 ft)                                   | 2,120 mm (7 ft)                                   |
| Braking distance                           | 7 m (at 35 km/h)                                  | 7 m (at 35 km/h)                                  |
|  | 23 ft (at 22 miles/hr)                            | 23 ft (at 22 miles/hr)                            |
| Steering                                   | 109 1 1 1 1 1 1 1                                 | 400 4 take and lafet                              |
| Steering angle<br>Length of handlebar      | 40° (right and left)<br>0.678 m                   | 40° (right and left)<br>0.678 m                   |
|  | 0.07 G III  | 0.070 III   |
| Running<br>Caster                          | 64°   | 64°   |
| Trail                                      | 0.086 m (0.25 ft)                                 | 0.086 m (0.25 ft)                                 |
| Tire size                                  |   |   |
| Front                                      | 2.50-18 (4 ply)                                   | 2.50-18 (4 Ply)                                   |
| Rear                                       | 2.75-18 (4 Ply)                                   | 2.75-18 (4 Ply)                                   |

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#### 4

#### II SPECIFICATIONS

| MODEL         | CB 125                               | CB 160                               |
|---------------|--------------------------------------|--------------------------------------|
| Brake         |                                      |                                      |
| Types         |                                      |                                      |
| Front         | "Two leading" internal expansion     | "Two leading" internal expansion     |
| Rear          | Leading, trailing internal expansion | Leading, trailing internal expansion |
| Operation     |                                      |                                      |
| Front         | Right grip manual                    | Right grip manual                    |
| Rear          | Right foot                           | Right foot                           |
| Suspension    |                                      |                                      |
| Front         | Telescopic                           | Telescopic                           |
| Rear          | Swinging arm                         | Swinging arm                         |
| Shock absober |                                      |                                      |
| Front         | Coil spring with oil absorber        | Coil spring with oil absorber        |
| Rear          | Coil spring with oil absorber        | Coil spring with oil absorber        |
| Type of frame | Tubular                              | Tubular                              |
| Lamps         |                                      |                                      |
| Head lamp     |                                      |                                      |
| Model         | ASS 13                               | ASS 13                               |
| Manufacturer  | Stanley Electric                     | Stanley Electric                     |
| V-W           | 12 V, 30 W/30 W (white)              | 12 V, 30 W/30 W (white)              |
| Tail lamp     |                                      |                                      |
| V-W           | 12 V, 8 W (red)                      | 12.V, 8 W (red)                      |
| Other use     | License lamp                         | License lamp                         |
| License lamp  |                                      |                                      |
| V-W           | 12 V, 8 W                            | 12 V, 8 W                            |
| Brake lamp    |                                      |                                      |
| V-W color     | 12 V. 25 W (red)                     | 12 V, 25 W (red)                     |