HALFORDS 8 FUNCTION CYCLE COMPUTER

CONTENTS DESCRIPTIONS (See Fig. A)
1. LCD DISPLAY
2. MODE BUTTON
3. BATTERY CAP
4. SET BUTTON
5. CONTACTS
6. SENSING ZONE
7. SENSOR PAD
8. RUBBER SPACER
9. BRACKET
10. SENSOR
11. MAGNET
12. MAGNET COLLAR
13. 12V BATTERY (LR44)
14. CABLE TIES
15. MAGNET SCRREW

INSTALLATION

SENSOR and MAGNET MOUNTING
1. Mount the SENSOR on the front fork with the SENSOR PAD with the sensor facing the spokes. (See Fig. B)
2. Mount the MAGNET on one spoke of the front wheel with the magnet facing and level with the SENSOR. (See Fig. C). Place the MAGNET COLLAR over the nut and check for alignment before firmly tightening the magnet screw.
3. Adjust the relative position between the sensor and the magnet.
Make sure the GAP between the magnet and the sensor is within 4mm (1/6 inch). (See Fig. D)
Adjust the gap by moving both the magnet and the sensor up or down.
4. Do not cut off any excess sensor band until all adjustments have been made & correct computer operation has been checked and is functioning correctly. (See Fig. E)

BRACKET MOUNTING

Attached the bracket to the handlebar and fit with pad, use the two cable ties to mount the bracket, do not tighten the cable ties before the bracket is place at the right position.

SECURING THE SENSOR CABLE
1. Select suitable positions to clip the sensor cable to the fork with CABLE TIES. (See Fig. G)
2. Make sure the sensor cable is secure enough for the handlebar to turn freely before tightening the cable ties.
3. Secure excess wire near the fork crown by wrapping it around the front brake cable or by gathering excess cable and securing it with cable ties.

MAIN UNIT MOUNTING

Before mounting the main unit install battery-see battery installation/change
1. Mount the main unit onto the bracket by sliding it from front to rear until it clicks into position. (See Fig. H)
This bracket is designed with a lock lever. It can lock up the main unit, ensuring that the main unit will not drop out while riding.
To remove the main unit, press down on the lock lever of the bracket then pull the main unit forward and off.

BATTERY INSTALLATION/CHANGE
1. When the LCD display is dim, it means that the battery is nearly exhausted.
2. Replace with a new LR44 battery. (See Fig. I)

TROUBLE SHOOTING

Check the following before taking unit in for repairs.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CHECK ITEMS</th>
<th>REMEDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Display</td>
<td>1. Is the battery dead? 2. Is there incorrect battery installation?</td>
<td>1. Replace the battery. 2. Be sure that the positive pole of the battery is facing the battery cap.</td>
</tr>
<tr>
<td>No current speed or incorrect data</td>
<td>1. Is it at the recalibrating or 12HR clock setting screen? 2. Are the contacts between the main unit and bracket poor? 3. Are the relative positions and gap of sensor and magnet correct? 4. Is the wire broken? 5. Is the circumference correct?</td>
<td>1. Refer to the adjusting procedure and complete the adjustment. 2. Wipe contacts clean. 3. Refer to (See Fig. C and D) and readjust data correctly. 4. Repair or replace wire. 5. Refer to “calibration” and enter correct value.</td>
</tr>
<tr>
<td>Irregular Display</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LCD is black</td>
<td>Did you leave main unit under direct sunlight when not riding the bike for a long time?</td>
<td>Place main unit in the shade to return to normal state. No adverse effect of data.</td>
</tr>
<tr>
<td>Display is slow</td>
<td>Is the temperature below 0°C (32°F)?</td>
<td>Unit will return to normal state when the temperature rises.</td>
</tr>
</tbody>
</table>
MAIN UNIT SETUP (See Fig. 1)

INITIATE THE COMPUTER
1. Press the All Clear (AC) key to clear all stored data and initiate the computer before using it or when replacing battery.
2. The LCD segments will be tested automatically after the All Clear key is pressed.
3. Press the “MODE” button to stop the LCD test, then the flashing “KM/h” will be displayed.

CALIBRATION
1. UNIT SELECTION
   Press the “MODE” button to select “KM/h” or “Mile/h” (Mph).
2. CIRCUMFERENCE DATA SETTING (See fig. 1)
   The default value of “2155” will be displayed. Refer to the wheel circumference table below for your tire size.
   Hold the “MODE” button until the “2” of “2155” flashes.
   Press mode button quickly to change first digit. Hold down mode key to move to the next digit. Follow this procedure until all four digits are correct.
   Hold down mode button for 6 seconds to store data.

FUNCTIONS

SPD: Current Speed
The current speed is always displayed on the 4 digits set when riding.

DST: Trip distance
The DST function accumulates the distance data from the last RESET operation as long as the bicycle is being ridden.

CLK: 12HR Clock
It displays the current time on a 12HR clock.

TM: Riding Time
The TM totals the riding time from the last RESET operation.

AVG: Average Speed
1. It is calculated from the DST divided by the TM; the average data counted is from the last RESET to current points.
2. It displays an “Err” symbol when either the TM is over 100 hours or the DST is over 1,000 km (or miles). Reset the unit in order to restart.

MAX: Maximum Speed
It shows the highest speed from the last RESET operation.

ODO: Odometer
The ODO accumulates the total distance as long as the bike is moving. The ODO data can be cleared by the ALL CLEAR operation only.

SCAN
1. AUTO-SCANNING DISPLAY MODE
   Press the MODE button till the “SCAN” symbol is displayed. The computer will change the DST, CLK, TM, AVG, MAX, TTM and ODO display modes in a loop sequence automatically every 6 seconds.
2. FIXED DISPLAY MODE
   Press the MODE button to turn off the “SCAN” symbol and select a desired display mode; the computer will stop the auto-scanning display operation and the display mode is set.

BUTTONS AND NORMAL OPERATIONS

AUTOMATIC START/STOP
1. The computer will automatically begin counting SPD, ODO, DST, MAX, TTM, “M” and AVG data upon riding and stop counting data when riding is stopped.
2. The flickering symbol “**” indicates that the computer is at START status.

POWER AUTO ON/OFF
To preserve battery, the computer will automatically switch off when it has not been used for about 10 minutes. The power will be turned on automatically by riding the bicycle or by pressing the mode button.

MODE BUTTON
Quickly press this button to move in a loop sequence from one basic function screen to another.

ALL CLEAR OPERATIONS (Initiate the Computer)
Press the ALL CLEAR (AC) key to clear all stored data.

RESET OPERATION
1. Hold down the “MODE” button to reset to zero, then release it. The computer will RESET the DST, TM, AVG, MAX. (it cannot reset CLK, TTM and ODO data.)

RECALIBRATION (See Fig. 2)
1. Change the LCD display to ODO screen, hold down the “MODE” button for about 6 seconds until the calibrating screen appears.
2. Refer to the main unit setup process to adjust the circumference.
3. Hold down the “MODE” button for 6 seconds to store the desired data and complete calibration.

12HR CLOCK SETTING (See Fig. 3)
Change the LCD display to “**” screen. Press the “MODE” button for 6 seconds until the clock adjusting screen appears. Press mode button quickly to change first digit. Hold down mode key to move to next digit. Follow this procedure until all four digits are correct. Hold down mode button for 6 seconds to store data.