HALFORDS 12 FUNCTION CYCLE COMPUTER

CONTENTS DESCRIPTIONS (See Fig. A)
1. LCD DISPLAY
2. MODE BUTTON
3. BATTERY CAP
4. SET BUTTON
5. 1st or 2nd BIKE SELECTION BUTTON
6. CONTACTS
7. SENSOR PAD
8. RUBBER SPACER
9. BRACKET
10. SENSOR
11. MAGNET
12. MAGNET COLLAR
13. 1.5V BATTERY (LR44)
14. CABLE TIES
15. MAGNET SCREW

INSTALLATION
SENSOR and MAGNET MOUNTING
1. Mount the SENSOR on the front fork with the SENSOR PAD 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)
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)

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 till it clicks into position. (See Fig. H)
2. 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.
3. To remove the main unit, press down on the lock lever of the bracket then pull the main unit forward and off.

FUNCTIONS
SPD: Current Speed
The current speed is always displayed on the upper set when riding. It displays current speed up to 199.9 Km/H or 120.0 Mile/H.

ODO1, ODO2 Bike1 Odometer, Bike2 Odometer
1. The odometer accumulates total distance as long as the cycle is being ridden.
2. This computer design has 2 wheel circumference memories to calculate data for 2 bikes. The odometer is separate for each bike.
3. It displays one ODO data only when the bike is selected in the current status.

T-TM: Total Riding Time
The T-TM accumulates total riding time while riding the bike1 or bike2.

T-ODO: Total Odometer
The T-ODO is the sum of the ODO1 plus ODO2.

12HR or 24HR Clock
Displays the current time either in 12HR or 24HRs.

AVG: Average Speed
1. This is calculated by dividing DST by the TM. The average data counted is from the last RESET to current point.
2. It will display “0.0” when TM is less than 4 seconds.
3. It is updated about one second when TM is over 4 seconds.
4. 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.

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

TM: Riding Time
The TM function accumulates the distance data from the last RESET operation.

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

DST/D: Distance Today
The DST/D function accumulates the distance data for one day ride. The data will be cleared at PM 12.00.00 (0.00.00) automatically.

: Speed Pacer
The speed pacer arrow flashes up when the current speed is higher than the average speed and flashes down when lower than the average speed.
**BUTTON OPERATION AND NORMAL OPERATION**

**MODE BUTTON**
Press this button to move in loop sequence from one function screen to another.

**SET BUTTON**
Press this button to get in or out of the setting screens when you want to reset to bike1, bike2 circumference or the current time of the clock.

1st or 2nd BIKE SELECTION BUTTON
1. This computer has 2 sets of circumference memories to calculate 2 bikes data respectively.
2. Press 1st or 2nd BIKE SELECTION BUTTON to switch between bike1 and bike2.

**MAIN UNIT SETUP (ALL CLEAR)**

**INITIATE THE COMPUTER & UNIT SELECTION (See Fig. 1)**
1. Install battery (refer to Battery Installation / Change).
2. Hold down the MODE button and the 1st or 2nd BIKE SELECTION BUTTON simultaneously for more than 3 seconds to activate the computer and clear all data. IMPORTANT: Be sure to activate the computer before use otherwise the computer may run errors.
3. All the LCD segments will be tested automatically after the unit is initiated.
4. Press MODE button to stop LCD test, then the flashing “Km/h” is displayed for unit selection.
5. Press MODE button to choose Km/h or Mile/h.
6. Press the SET BUTTON to store selection.

**ODO1, ODO2 and T_TM DATA SETTING (See Fig. 2)**
1. The function is designed to re-key in former data of ODO1, ODO2 and T-TM when the battery is replaced. A new user does not need to set this data.
2. Each press of the SET button skips one setting data process.
3. Data setting Procedure:
   • The data is changed by adjusting each digit separately. The digit being changed will set the digit and move onto the next.
   • Quickly press the MODE button to increase the digital value by 1.
   • To change the setting digit, hold down the MODE button to store the data and change to the next setting or the normal operation.

**WHEEL CIRCUMFERENCE**
Identify the tyre size of your cycle and key in the corresponding number shown in the following chart.

<table>
<thead>
<tr>
<th>WHEEL SIZE CHART</th>
<th>Setting Value</th>
<th>Wheel Size</th>
<th>Setting Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>47-406</td>
<td>20 x 1.75 X 2</td>
<td>1590</td>
<td>32-630</td>
</tr>
<tr>
<td>37-540</td>
<td>24 x 1.3/8 A</td>
<td>1684</td>
<td>28-630</td>
</tr>
<tr>
<td>47-507</td>
<td>24 x 1.75 X 2</td>
<td>1607</td>
<td>40-622</td>
</tr>
<tr>
<td>29-571</td>
<td>26 x 1.5</td>
<td>1873</td>
<td>40-622</td>
</tr>
<tr>
<td>40-599</td>
<td>28 x 1.5</td>
<td>2026</td>
<td>40-635</td>
</tr>
<tr>
<td>44-559</td>
<td>28 x 1.5</td>
<td>2051</td>
<td>37-622</td>
</tr>
<tr>
<td>47-559</td>
<td>28 x 1.3/8 X 2</td>
<td>2070</td>
<td>18-622</td>
</tr>
<tr>
<td>50-599</td>
<td>20 x 1.9</td>
<td>2089</td>
<td>20-622</td>
</tr>
<tr>
<td>54-599</td>
<td>25 x 2.0</td>
<td>2114</td>
<td>23-622</td>
</tr>
<tr>
<td>57-599</td>
<td>25 x 2.15</td>
<td>2133</td>
<td>25-622</td>
</tr>
<tr>
<td>57-599</td>
<td>25 x 2.15</td>
<td>2133</td>
<td>25-622</td>
</tr>
<tr>
<td>57-599</td>
<td>26 x 1.3/8</td>
<td>2133</td>
<td>25-622</td>
</tr>
<tr>
<td>57-599</td>
<td>26 x 1.3/8</td>
<td>2159</td>
<td>20-622</td>
</tr>
<tr>
<td>57-584</td>
<td>26 x 1.3/8 X1/2</td>
<td>2068</td>
<td>32-622</td>
</tr>
<tr>
<td>20-571</td>
<td>25 x 3/4</td>
<td>1994</td>
<td>37-622</td>
</tr>
<tr>
<td></td>
<td></td>
<td>40-622</td>
<td>760 x 450</td>
</tr>
</tbody>
</table>

*Refer to the chart below to calculate the setting value.

**WHEEL CIRCUMFERENCE DATA SETTING (See Fig. 3)**
1. To set the correct wheel data quickly press the MODE button this will change the first digit one level at a time, when this number is correct hold down the MODE button for 3 seconds this will set the digit and move onto the next. Press the SET button to store the data.
2. Unit will change to the normal operation after the circumference is set.

**12 HR CLOCK SETTING (See Fig. 4)**
1. Press the MODE button until the display changes to “CLK”.
2. Press the SET button to enter the clock adjusting screen.
3. A quick press of the MODE button to select 12HR or 24HR.
4. Adjust the clock data as the data setting procedures.

**RESET OPERATION (See Fig. 5)**
1. Hold down the MODE button until the LCD digit is cleared, then release it. The computer will reset the RT, MAX, AVG, and DST data from stored values to zero.
2. It cannot reset CLK and ODO data.

**AUTOMATIC START/STOP**
1. The computer will automatically begin counting data upon riding and stop counting data when riding is stopped.
2. The flashing symbol “ ” indicates that the computer is at start status.

**POWER AUTO ON/OFF**
To preserve battery power the computer will automatically switch off when it has not been used for approx. 4 mins. The computer will restart by either riding or pressing the MODE button.

**REPLACING THE BATTERY (See Fig. 1)**
1. The Symbol “ ” will appear to indicate the battery is nearly exhausted.
2. Replace the battery with a new one within 2 weeks after the symbol has appeared, otherwise incorrect data may be displayed.

**BATTERY INSTALLATION/CHANGE**
Note: All data will be cleared when battery is replaced. This computer allows you to re-key in former data of ODO1, ODO2 and T-TM data which you rode before replacing the battery. So if wish to reinstall this information it should be recorded before removing the old battery.
1. Remove the old battery.
2. Replace with a new LR44 battery (See Fig. I) or equivalent in the compartment.
3. Activate the main unit again.

**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 “calibration” 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>Refer to the MAIN UNIT SETUP and activate the computer again.</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)? Unit will return to normal state when the temperature rises.</td>
<td></td>
</tr>
</tbody>
</table>

**CHECK ITEMS**
will appear to indicate the following chart.