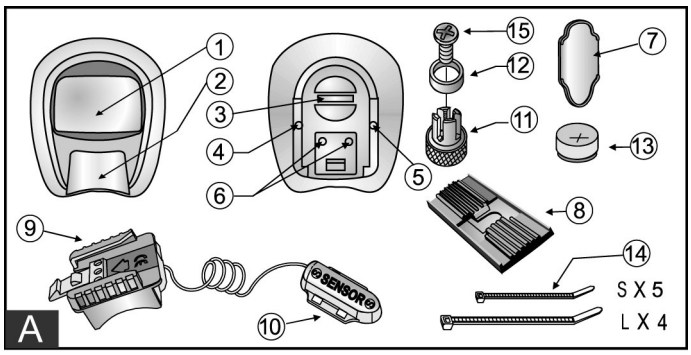
HALFORDS 12 FUNCTION CYCLE COMPUTER

umeb12halfe2 # 英文



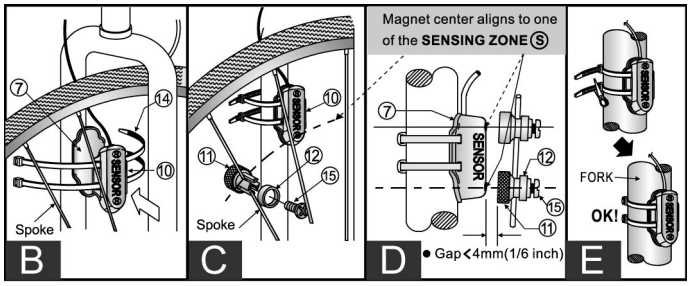
CONTENTS DESCRIPTIONS (See Fig. A)

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

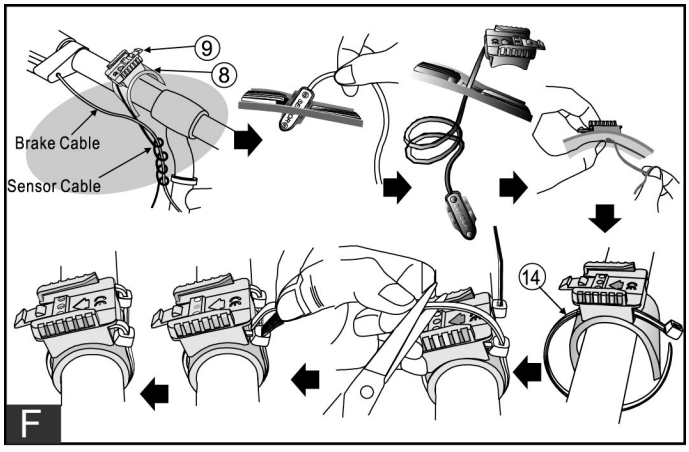
SENSOR and MAGNET MOUNTING

1. Mount the SENSOR ⑩ on the front fork with the SENSOR PAD ⑦ with the sensor facing the spokes. **(See Fig. B)**
2. Mount the MAGNET ⑪ on one spoke of the front wheel with the magnet facing and level with the SENSOR. **(See Fig. C).** Place the MAGNET COLLAR ⑫ over the nut and check for alignment before firmly tightening the magnet screw ⑮.
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)**



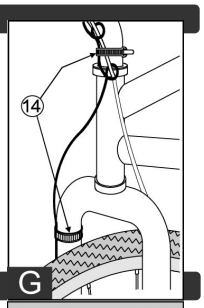
BRACKET MOUNTING

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

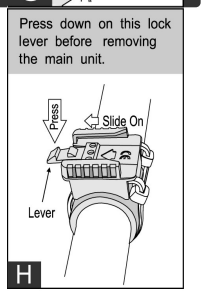
1. Select suitable positions to clip the sensor cable to the fork with CABLE TIES. ⑭ **(See Fig. G)**
2. Make sure the sensor cable is loose enough for the handlebar to turn freely before tightening the cable ties.
3. Secure excess wire near the fork crown by wrapping it around the front brake cable 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 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 display 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

1. The TM totals the riding time from the last RESET operation.
2. It will automatically begin counting upon riding, and continue to count for 3 seconds after the cycle has stopped to confirm that no more signal is being sent.
   The computer reverses back the over counted 3 seconds automatically.
3. It displays in 0.1 second increments when TM is less than 1 hour and changes to 1 second increments after 1 hour. It will restart from zero after 100 hours.

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 ②

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

SET BUTTON ④

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.

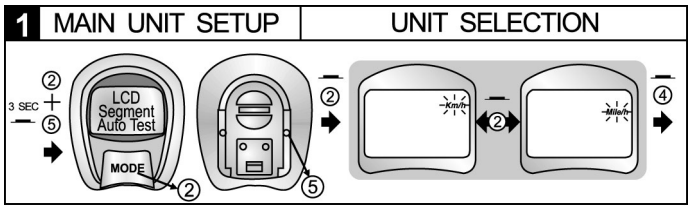
1st or 2nd BIKE SELECTION BUTTON ⑤

1. This computer has 2 sets of circumference memories to calculate 2 bikes data separately.
2. Press 1ST OR 2ND BIKE SELECTION BUTTON ⑤ to switch between bike1 and bike2.

MAIN UNIT SET UP (ALL CLEAR)

INITIATE THE COMPUTER & UNIT SELECTION (See Fig. 1)

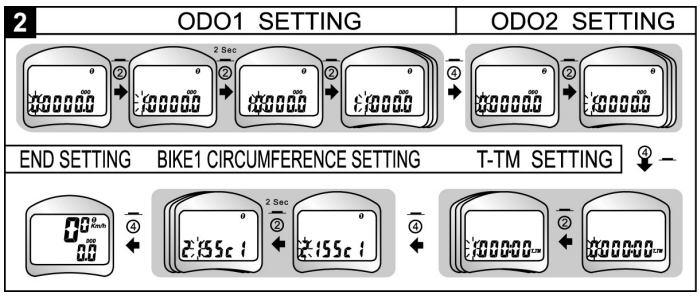
1. Install battery (refer to Battery Installation / Change).
2. Hold down the MODE button ② and the 1st or 2nd BIKE SELECTION BUTTON ⑤ simultaneously for more than 3 seconds to activate the computer and clear all data. **IMPORTANT: Be sure to activate the computer before use otherwise the computer may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

- The data is changed by adjusting each digit separately. The digit being changed flashes.
- Quickly press the MODE button ② to increase the digital value by 1.
- To change the setting digit, hold down the MODE button ② for more than 2 seconds.
- Press the SET button ④ 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.

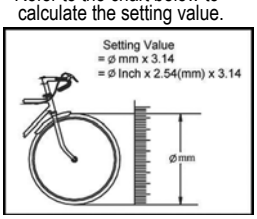
WHEEL SIZE CHART

Wheel Size		Setting Value	Wheel Size		Setting Value
47-406	20 X 1.75 X 2	1590	32-630	27 X 1 1/4	2199
37-540	24 X 1.3/8A	1948	28-630	27 X 1 1/4	2174
47-507	24 X 1.75 X 2	1907	40-622	28 X 1.5	2224
23-571	26 X 1	1973	40-622	28 X 1.75	2268
40-559	26 X 1.5	2026	40-635	28 X 1 1/2	2265
44-559	26 X 1.6	2051	37-622	28 X 1 1/8 x 1 5/8	2205
47-559	26 X 1.75 X 2	2070	18-622	700 X 18C	2102
50-559	26 X 1.9	2089	20-622	700 X 20C	2114
54-559	26 X 2.00	2114	23-622	700 X 23C	2133
57-559	26 X 2.215	2133	25-622	700 X 25C	2146
37-590	26 X 1 3/8	2105	28-622	700 X 28C	2149
37-584	26 X 1 3/8 X 11/2	2086	32-622	700 X 32C	2174
20-571	26 x 3/4	1954	37-622	700 X 35C	2205
			40-622	700 x 40C	2224

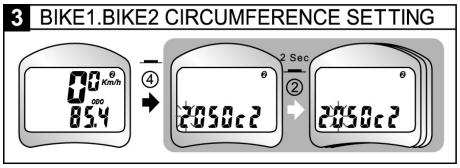
***WHEEL CIRCUMFERENCE DATA SETTING* (See Fig. 3)**

1. To set the correct wheel data quickly press the MODE button ② this will change the first digit one level at a time, when this number is correct hold down the MODE button ② for 3 seconds this will set the digit and move onto the next. Press the SET button ④ to store the data.

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

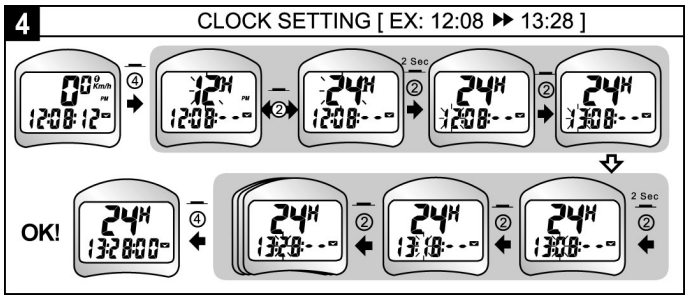


2. Unit will change to the normal operation after the circumference is set.



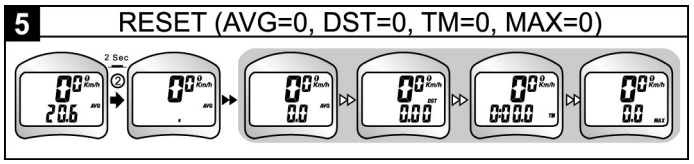
***12 HR CLOCK SETTING* (See Fig. 4)**

1. Press the MODE button ② until the display changes to "CLK".
2. Press the SET button ④ to enter the clock adjusting screen.
3. A quick press of the MODE button ② 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 ② 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

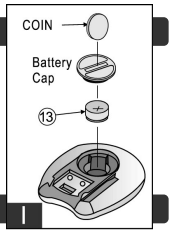
1. The computer will automatically begin counting data upon riding and stop counting data when riding is stopped.
2. The flashing symbol " " indicates that the computer is at start status.

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 ②.

REPLACING THE BATTERY (See Fig. I)

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 the 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 on the back of the computer with the positive (+) pole towards the battery cap.
3. Activate the main unit again.

TROUBLE SHOOTING

Check the following before taking unit in for repairs.

PROBLEM	CHECK ITEMS	REMEDY
No Display	1. Is the battery dead? 2. Is there incorrect battery installation?	1. Replace the battery. 2. Be sure that the positive pole of the battery is facing the battery cap.
No current speed or incorrect data	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?	1. Refer to the adjusting procedure and complete the adjustment. 2. Wipe contacts clean. 3. Refer to (**FIG.C&D**) and readjust data correctly. 4. Repair or replace wire. 5. Refer to "calibration" and enter correct value.
Irregular Display		Refer to the MAIN UNIT SETUP and activate the computer again.
LCD is black	Did you leave main unit under direct sunlight when not riding the bike for a long time.	Place main unit in the shade to return to normal state. No adverse effect of data.
Display is slow	Is the temperature below 0 ^{0}C (32^0 F)?	Unit will return to normal state when the temperature rises.