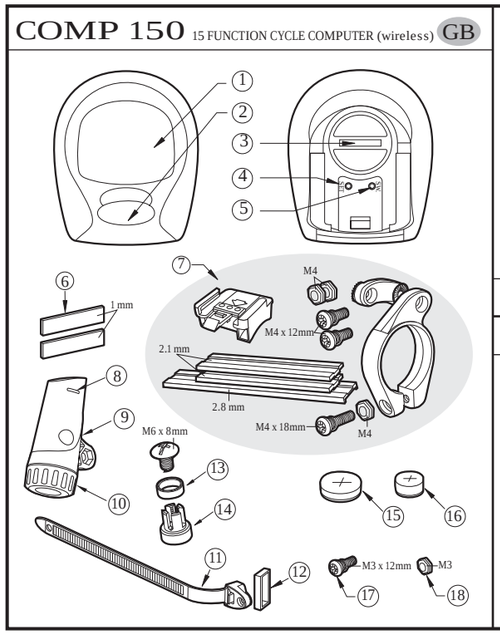
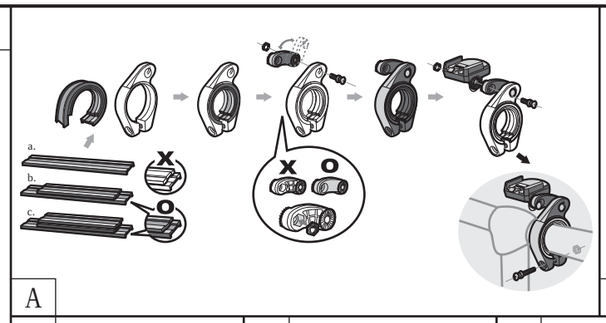
COMP 150 15 FUNCTION CYCLE COMPUTER (wireless) GB





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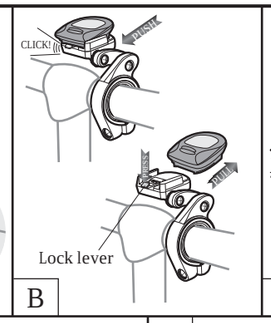

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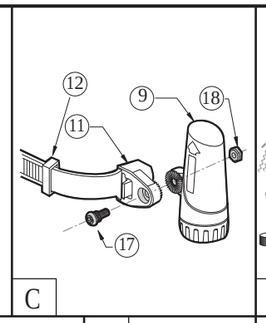

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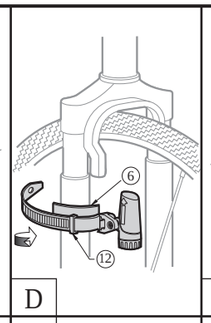

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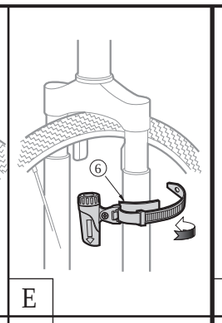

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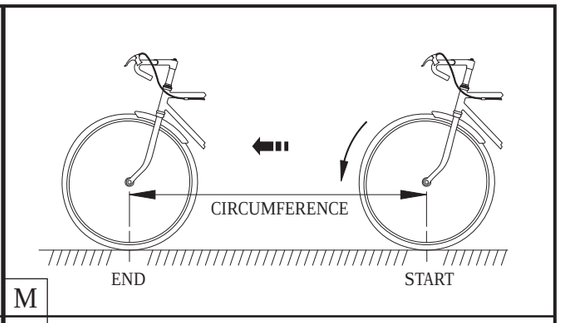

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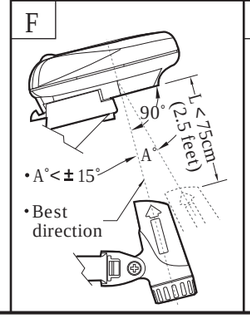

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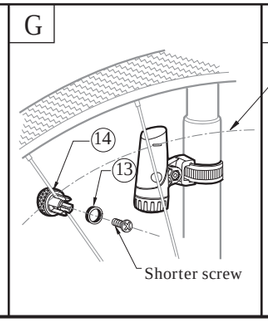

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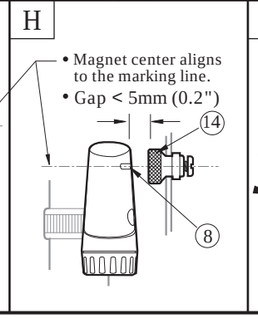

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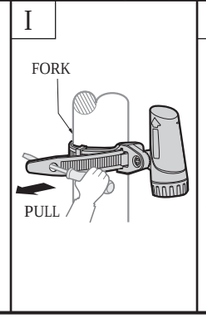

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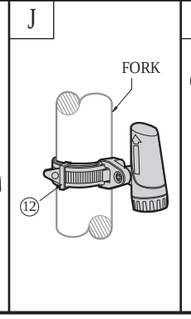

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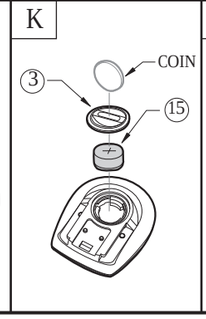

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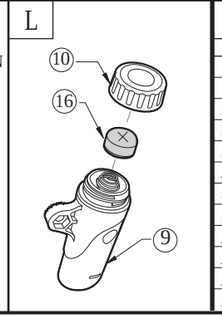


N

POPULAR TIRES CIRCUMFERENCE REFERENCE TABLE

Tire Size	Circumference Number	Tire Size	Circumference Number
18 Inch	1436 mm	26 x 2.0 (650B)	2099 mm
20 x 1.75	1564	700C TUBULAR	2117
20 Inch	1596	700 x 20C	2092
22 Inch	1759	700 x 25C	2124
ATB 24 x 1.75	1888	700 x 28C	2136
24 Inch	1916	27 Inch (700 x 32C)	2155
24 x 1 3/8	1942	700 x 35C	2164
ATB 26 x 1.40	1995	700 x 38C	2174
ATB 26 x 1.50	2030	27.5 Inch	2193
ATB 26 x 1.75	2045	28 Inch (700B)	2234
26 Inch (650A)	2073	28.6 Inch	2281

TOPEAK®

PREPARE TO RIDE™

A. PHYSICAL DESCRIPTIONS

1. LCD DISPLAY
2. MODE BUTTON
3. MAIN BATTERY CAP
4. SET BUTTON
5. SLIDE ON/OFF SWITCH
6. RUBBER PAD
7. BRACKET & H/BAR RUBBER PAD
8. SENSOR MARKING LINE
9. SENSOR (TRANSMITTER)
10. SENSOR BATTERY CAP
11. SENSOR BAND
12. BAND CARRIER
13. RING
14. MAGNET
15. 3V BATTERY (CR2032)
16. 1.5V BATTERY (LR44 IS TYPICAL)
17. SCREW
18. NUT

B. INSTALLATION

BRACKET, H/BAR RUBBER PAD AND MAIN UNIT MOUNTING

1. Choose the proper thickness rubber pad(s) to fit your handlebar. Assemble bracket together by using screw (M4 x 12mm) and nut (M4). Mount BRACKET & HANDLEBAR RUBBER PAD(S) (7) on handlebar by using screw (M4 x 18mm) and nut (M4) to tighten the bracket and rubber pad(s). (Fig. A)
2. Mount main unit by sliding onto bracket from front. Unit will lock into position. To remove unit, press down LOCK LEVER and slide unit forward. (Fig. B)

SENSOR AND MAGNET MOUNTING

1. Assemble SENSOR (9) and SENSOR BAND (11) together using screw (17). Slide BAND CARRIER (12) onto sensor band. (Fig. C)
2. Mount MAGNET (14) on spoke facing sensor. Be sure it is centered in sensor zone (Fig. H). Use RING (13) as shown in Fig. G to stabilize magnet.
3. Mount sensor on fork (Fig. D). Mounting position should allow the following mounting requirements.
   A) Sensor unit should be within 45cm (18") of main unit. (Fig. F)
   B) Sensor can be mounted upside down (Fig. E), however, note that sensor should be mounted closer to main unit if done so.
   C) Sensor should be aimed at main unit, +/- 15 degrees. Best angle is 90 degrees to main unit. (Fig. F)
   D) Magnet should have 5mm (0.2") gap or less from sensor. (Fig. H)
4. Refer to TEST section for testing installation before tightening sensor band. (Fig. I)
5. Tuck excess sensor band into BAND CARRIER (12). (Fig.J)

TEST

The main unit has an automatic detection circuit to turn the unit on and off when installed and removed from bracket. The main unit will only receive wheel signals when it is mounted in bracket. The " " icon will indicate if the wireless signal is being received and your installation is correct. Check relative positions of main unit/sensor and sensor/magnet or refer to the troubleshooting section if problems with installation exist.

C. WIRELESS SYSTEM AND PERFORMANCE

1. The sensor sends an electronic signal to the main unit via wireless transmission. To prevent main unit from receiving false data, mount all components within required distances outline in INSTALLATION section.
2. Important notes:
   A) This computer has excellent EMI (Electro-Magnetic Interference) immunity between two bicycles with similar wireless computers as long as distance between sensor and main units between bikes is over 40cm (15.8").
   B) Main unit may experience data error around strong EMI signals. ie TV transmission stations, radar stations, certain heavy industrial machines, etc.
3. Auto-detection circuit in main unit will reduce power consumption of receiver when unit is removed from bracket. This is also helpful against error data received from PC monitors, cellular phones, etc., when main unit is not mounted in bracket. Normal operation will resume when main unit is installed in bracket.

D. FUNCTIONS AND SPECIFICATIONS

: Current Speed 0.0~199.9 Km/h or 120.0 Mile/h +/- 1% (Typical)

1. Current speed is always displayed using the large display set.
2. Main unit will continue to display speed up to 4 seconds after bicycle has stopped to confirm no other wheel signals are being received.

ODO: Odometer 0.0~99999.9 Km or Miles +/- 0.1%

1. Odometer accumulates total distance only when bicycle is moving.
2. Odometer is not cleared by reset operation.

ODO1, ODO2 and T-ODO: Bike1 odometer, Bike 2 odometer and Total Odometer (STOP STATUS ONLY)

1. This computer is designed to hold data for two separate bicycles. Odometer is separate for each bicycle.
2. T-ODO data is sum of ODO1 and ODO2.
3. ODO1, ODO2 and T-ODO is not cleared by reset operation.

TM: Ride Time 0M00.0S~59M59.9S, 1H00M00S~99H59M59S +/- 0.003%

1. TM counts ride time from last RESET.
2. TM begins counting time when bicycle starts to move and stop 3.2 seconds after bicycle has stopped. The computer will automatically subtract the 3.2 additional seconds for accurate time readings.
3. TM is measured in 0.1 second increments for trip time less than 1 hour. Increment is increased to 1 second for trip time over 1 hour. TM will reset to zero if ride time is over 100 hours.

T-TM: Total Riding Time (STOP STATUS ONLY) 0H0M ~9999H59M +/- 0.003%

T-TM accumulates total ride time of bike 1 or bike 2. T-TM is not cleared with reset operation.

: 12HR or 24HR Clock 1:0'00"~12:59'59" AM/PM or 0:o'oo"~23:59'59" +/- 0.003%

12HR or 24 HR time format can be displayed.

AV: Average Speed 0.0~199.9 Km/h / 0.0~120.0 Mile/h +/- 0.1%

1. Average speed is calculated from last RESET to current position.
2. "0.0" will display if trip ride time (TM) is less than 4 seconds.
3. "Err" will display if TM is over 100 hours or trip distance (DST) is over 1000 (km or miles). Reset main unit to restart average speed function.

DS: Trip Distance 0.00~999.99 Km or Miles +/- 0.1%

DS accumulates distance data from last RESET and only while bicycle is moving.

MX: Maximum Speed 0.0~199.9 Km/h or 120.0 Mile/h +/- 1%

Displays maximum speed from last reset operation.

/ : Pace Indicator

The computer will display or to indicate if your current speed is above or below your average speed. Pace indicator is displayed only while bicycle is moving.

: Lubrication Reminder 10.00~990.00 Km or Mile +/- 0.1%

1. This function was created by ECHOWELL® (pat pend). It will remind to lubricate your bicycle at a set distance.
2. The LCD will blink the " " icon when the user defined distance is reached. Distance will be counted down to zero. If function is not reset, distance will begin to count up and a "0" will display to indicate mileage over scheduled maintenance interval distance.

: Maintenance Reminder 10.00~990.00 Km or Mile +/- 0.1%

1. This function was created by ECHOWELL® (pat pend). It will remind to maintain your bicycle at a set distance.
2. The LCD will blink the " " icon when the user defined distance is reached. Distance will be counted down to zero. If function is not reset, distance will begin to count up and a "0" will display to indicated mileage over scheduled maintenance interval distance.

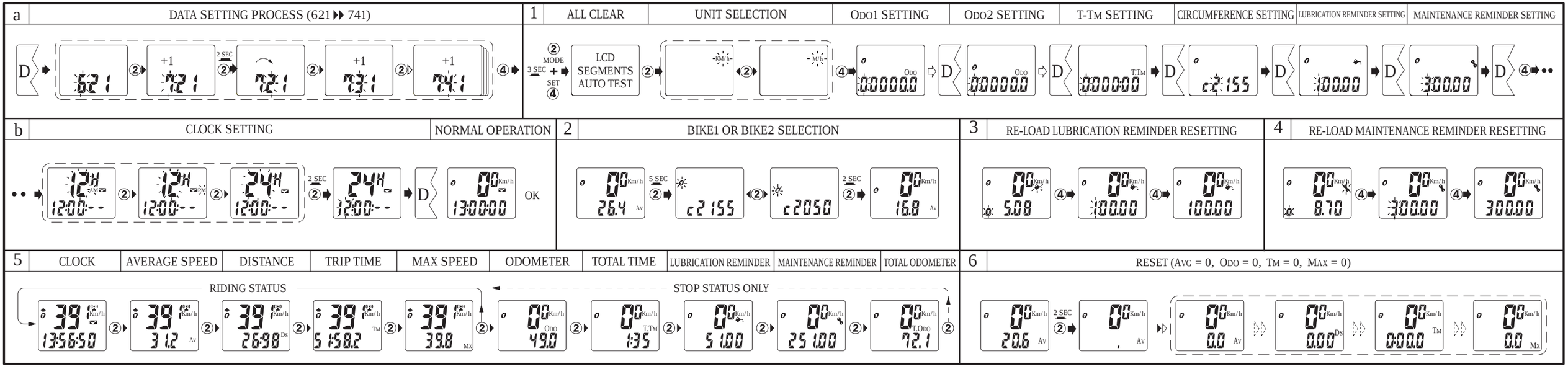
* Remarks: All data is updated approximately every second.

● IMPORTANT NOTES

1. The computer is water resistant and can be used in the rain, however, the unit should never be submerged in water.
2. Do not expose computer to direct sunlight if you are not riding.
3. Never attempt to disassemble computer or accessories.
4. Check relative position of sensor and wheel magnet periodically.
5. Clean contacts of bracket and computer periodically.
6. Do not use harsh chemicals to clean computer or accessories. Use only soft moist cloth.
7. Remember to pay attention to the road while riding.

Sensor with Transmitter:	No Contact Magnet sensor with Wireless Transmitter.
Suitable Fork Size:	12mm to 50mmø (0.5" to 2.0"ø) Forks.
Wireless Sensing Distance:	75cm (2.5 feet) between the transmitter and the main unit.
Cross-Talking Interference:	Within 40 cm (15.7"), no interference by 2 bicycles carrying similar cycle computers, even when ridden side by side.
Wheel Circumference Setting:	0mm - 3999mm (1mm increment)
Operation Temperature:	0°C ~ 50°C (32°F ~ 122°F)
Storage Temperature:	- 10°C ~ 60°C (14°F ~ 140°F)
Main Unit Battery Power:	3V battery x 1 (CR2032), battery operating life is about 1.3 years. (Based on an average of 1.5 hours use per day.)
Transmitter Battery Power:	1.5V battery x 1 (typical LR44). About 24,000km/ 15,000 miles riding distance, or approximately two years. (Battery included with sensor may have shorter battery life due to initial shipping and storage time.)
Dimensions and Weight:	Main Unit: 44.8 x 54 x 19.5mm/33.5g Transmitter: 20.0mmø x 48.0mm/14.1g

INDEX: (N) 2 SEC Means press and hold button **N** for more than 2 seconds. (N) Means press button **N** quickly. N=KEY NUMBER: (②:Mode Button; ④:Set Button)



● INDEX: (N) 2 SEC MEANS PRESS AND HOLD BUTTON N FOR MORE THAN 2 SECONDS.
(N) MEANS PRESS BUTTON N QUICKLY
{N=KEYNUMBER: ② MODE Button. ④ SET Button. }

E. MAIN UNIT SETUP (Fig.1)

INITIATING COMPUTER

1. A battery comes installed in the computer.
2. Press and hold MODE button (2) and SET button (4) simultaneously for more than 3 seconds to initiate the computer and clear all data.
   Note: Run errors may occur if computer is not initiated before first use.
3. LCD segments will be tested automatically after the unit is initiated.
4. Press MODE button (2) to stop LCD test. A blinking "Km/h" will be displayed.

UNIT SELECTION

Press MODE button (2) to choose Km/h or Mile/h. Press SET button (4) to store selection.

ODO1, ODO2 and T-TM DATA SETTING

1. Stored data fields must be re-entered after each battery replacement if continued use of stored data is desired.
2. Pressing SET button (4) during data setting process will move between each stored data function.
3. Data setting process (621 ▶▶ 741): (Fig a)
   A) Stored data is entered by individual digit. Digit field being modified will blink.
   B) Press MODE button (2) to change value of blinking digit field.
   C) Press and hold MODE button (2) for more than 2 seconds to move to next digit field.
   D) Press SET button (4) to store displayed data and move to next stored function data entry or to normal operation.

WHEEL CIRCUMFERENCE

1. Position wheel with valve stem at bottom and note position on ground.
2. Roll bicycle forward one complete revolution until valve stem returns to bottom. Note second position and measure distance between both positions in millimeters. This measurement is more accurate if you are on the bicycle. Ask an assistant to mark valve stem positions. (Fig. M)
3. Enter millimeter value into computer as described in Data Setting.
   Option: Use suitable circumference value from table. (Fig. N)
4. Computer will proceed to lubrication reminder setting after wheel circumference is entered.

LUBRICATION and MAINTENANCE REMINDER SETTING

1. Main unit will display " " and " " icons for Lubrication or Maintenance reminder setting. (Default settings: Lubrication Bike1 100 Km/Miles, Bike2 300Km/Miles, Maintenance Bike1 300Km/Miles, Bike2 990Km/Miles.)
2. Adjust reminder distance data as described in the Data Setting Processes.
3. Reminders can be bypassed by setting distance interval to 000.00.
4. Press SET button (4) to store desired data and move to next setting.

CLOCK SETTING (Fig. b)

1. " " icon will display at clock setting.
2. Press MODE button (2) to choose 12 hr or 24 hr time format.
3. Adjust time as described in Data Setting Procedures.

F. BUTTON and NORMAL OPERATIONS

MODE BUTTON (2) (Fig. 5)

1. Press MODE button to cycle between function screens.
2. Pressing MODE button while riding bypasses T-TM, ODO, T-ODO, Lubrication and Maintenance reminder data.

SET BUTTON (4)

Press SET button to enter data setting functions for bike 1/ bike 2 wheel circumference, Lubrication or Maintenance reminders, or change current time.

RESET OPERATION

1. Press and hold MODE button (2) until LCD screen goes blank. Release MODE button to reset AV, DS, TM and MX data from stored values to zero. (Fig. 6)
2. ODO, T-TM, T-ODO, , Lubrication and Maintenance reminders will not be reset by this action.

MAIN UNIT DETECTION CIRCUIT

This computer has an internal auto-detection circuit to note when main unit is installed in bracket. This conserves battery power when unit is removed from bracket.

AUTOMATIC SUSPEND & POWER OFF

1. This computer will automatically enter suspend mode when bicycle stops. To resume normal function the mode button (2) must be pressed.
2. A blinking icon " " will indicate when computer is receiving adequate wireless transmission and is counting data.
3. Computer will automatically turn off after 30 minutes of inactivity and display only the time. To resume normal function the mode button (2) must be pressed.

BIKE 1 or BIKE 2 SELECTION BUTTON (Fig. 2)

1. This computer has memory for two different wheel circumferences and stores each data separately.
2. Bike 1 is designed for MTN bikes and Bike 2 for ROAD bikes.
3. Press and hold MODE button (2) for more than 5 secnds to enter bike selection screen.
4. Press MODE button (2) to select Bike 1 or Bike 2.
5. Adjust data as described in Data Setting Processes.

CIRCUMFERENCE, CLOCK, LUBRICATION AND MAINTENANCE INTERVAL RESETTING

1. Press MODE button (2) to change to between desired screens "ODO", " ", " ", " ", ".
2. Press SET button (4) to enter desired setting function.
3. Adjust values as described in Data Setting Processes.
4. Press SET button (4) to store desired data and complete current setting.

RELOAD LUBRICATION AND MAINTENANCE REMINDERS AFTER SCHEDULED INTERVAL

To avoid the Lubrication and Maintenance reminders from being cleared by re-setting main unit, follow these procedures to RELOAD previous settings after service is performed.

1. Press MODE button (2) to desired service reminder, " ", ".
2. Press SET button (4) to display previous distance setting value and clear current displayed service icon.
3. Press SET button (4) again to reload previous distance setting and return to normal operation.

G. CHANGING BATTERY

1. MAIN UNIT

A) A low battery indicator " LOW " will appear when battery needs to be changed.
B) Change battery soon as stored data may be lost if battery is completely drained.
C) Before changing battery, write down stored data ODO1, ODO2, and T-TM. All data will be cleared when replacing battery, however, this computer will allow you to re-enter your stored data.
D) Replace battery (15) as shown in Fig. K. (Battery is CR2032)
E) Intitialize main unit. (Fig. 1)

2. SENSOR (TRANSMITTER)

A) Replace battery when transmitter is sending intermittent signals. (Be sure to check installation to determine it is not caused by relative position problems.)
B) Replace battery (16) as shown in Fig. L. (Battery is LR44)

● TROUBLE SHOOTING

PROBLEM	CHECK ITEM	REMEDY
Main unit 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 MAIN UNIT SETUP or another setting screen? 2. Are the relative positions and gap of sensor and magnet correct? 3. Is the circumference correct? 4. Is the sensing distance too far or the installation angle of the sensor incorrect? 5. Is the sensor battery nearly exhausted? 6. Is any strong interference source nearby?	1. Refer to the setting procedure and complete the adjustment. 2. Refer to (Fig. G) and (Fig. H) and readjust position and gap correctly. 3. Refer to "CIRCUMFERENCE SETTING" and enter correct value. 4. Refer to (Fig. F) to adjust distance or angle between the main unit and the sensor. 5. Replace with a new battery. 6. Move away from the source of interference.
Irregular display		Refer to the "MAIN UNIT SETUP" and initiate 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 on data.
Display is slow	Is the temperature below 0˚C (32˚F)	Unit will return to normal state when the temperature rises.

LIMITED WARRANTY

2-year Warranty: All electronic and mechanical components against manufacturer defects only.
Batteries are not covered under any implied warranty.

Warranty Claim Requirements

To obtain warranty service, you must have your original sales receipt. Items returned without a sales receipt will assume that the warranty begins on the date of manufacture. All warranties will be void if Comp 150 cycle computer is damaged due to user crash, abuse, system alteration, modification, or used in any way not intended as described in this operating manual.

∗ The specifications and design are subject to change without notice.

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