

A. PHYSICAL DESCRIPTIONS

1. LCD DISPLAY
2. MODE BUTTON
3. BATTERY CAP
4. SET BUTTON
5. BIKE1/BIKE2 SELECTION BUTTON
6. CONTACTS
7. SENSOR RUBBER PAD
8. BRACKET ZIP TIE (200mm) x 4
9. CABLE TIES (165mm) x 5
10. RING
11. MAGNET
12. BRACKET & HANDLEBAR RUBBER PAD
13. SENSOR
14. 1.5V BATTERY (LR44 IS TYPICAL)
15. SENSING ZONES (S)

B. INSTALLATION

SENSOR and MAGNET MOUNTING

1. Choose a suitable location for the fork sensor and wheel magnet that will allow no more than a 4mm gap between them when mounted.
2. Mount SENSOR (13) and RUBBER PAD (7) on fork leg as shown in Fig. B0. Sensor should be facing spokes.
3. Mount MAGNET (11) on wheel spoke facing sensor. Be sure it is within the SENSOR ZONES (S). Use ring (10) as shown in Fig. B1 to stabilize magnet. (Magnet will fit both round and bladed spokes. Choose appropriate spoke slot.)
4. Adjust relative position of sensor and magnet before tightening magnet screw and sensor ties. (Fig. B2)

A) Align center of magnet with either sensing zone.
B) Gap between sensor and magnet should not exceed 4mm (1/6 inch). Achieve desired gap by moving sensor and wheel magnet up and down.
Note: If A or B is not correct, signal will be unreliable.
5. Tighten all fasteners after all relative positions are correct. Trim cable tie excess. (Fig. B3)

BRACKET & HANDLEBAR RUBBER PAD MOUNTING

Mount BRACKET & HANDLEBAR RUBBER PAD(12) on handlebar. Use BRACKET ZIP TIE (8) to tighten the bracket and rubber pad. (Fig. B4)

SECURING SENSOR CABLE


1. Secure sensor cable to frame with CABLE TIES (9). Be sure handlebar rotates freely before tightening cable ties. (Fig. B5)
2. Tighten cable ties only enough to secure sensor cable. Do not crush sensor cable. Trim cable tie excess being careful not to cut sensor cable.

MAIN UNIT MOUNTING

1. Mount main unit by sliding onto bracket from front . Unit will lock into position. (Fig. B6)
2. To remove unit, press down LOCK LEVER then slide unit forward. (Fig. B7)

C. CHANGING BATTERY

LOW BATTERY INDICATOR

1. A low battery indicator "  " will appear when battery needs to be changed.
2. Change battery soon as stored data may be lost if battery is completely drained.

CHANGING BATTERY

1. Before changing battery, write down stored data ODO1, ODO2 and T-TM.
2. All data will be cleared when replacing battery, however, this computer will allow you to re-enter your stored data.
3. Replace BATTERY (14) as shown in Fig. C. Battery is LR44 (cross reference A76, AG13 or V13GA).
4. Initialize main unit. (Fig. E)

●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.

●TROUBLE SHOOTING

PROBLEM	CHECK ITEM	REMEDY
No display	1. Is the battery dead? 2. Is battery installed correctly?	1. Replace the battery. 2. Make sure battery is installed as shown in Fig. C. Positive side of battery should be facing up.
No current speed or incorrect data	1. Is computer on Main Unit setup or Clock setting screen? 2. Is there positive contact between computer and bracket? 3. Are the relative positions and gap of sensor and magnet correct? 4. Is sensor cable cut? 5. Is the circumference correct?	1. Refer to the setting procedure and complete the adjustment. 2. Make sure computer is mounted securely in bracket. Wipe contacts clean. 3. Refer to (Fig. B1) and (Fig. B2) and re-adjust correctly. 4. Repair or replace cable. 5. Refer to "CIRCUMFERENCE" and enter correct value.
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.

D1




The diagram illustrates the method for measuring a bicycle wheel's circumference. Two identical bicycles are shown on a horizontal surface, represented by a line with diagonal hatching. The left bicycle has a vertical dashed line from its center to the ground, labeled 'END' below. The right bicycle has a similar vertical dashed line labeled 'START' below. A horizontal double-headed arrow connects the two ground points. Above this arrow, the word 'CIRCUMFERENCE' is written. To the left of the arrow, there is a small left-pointing arrow and three vertical bars. To the right of the arrow, there is a curved arrow pointing clockwise around the wheel.

D2

POPULAR TIRES CIRCUMFERENCE REFERENCE TABLE

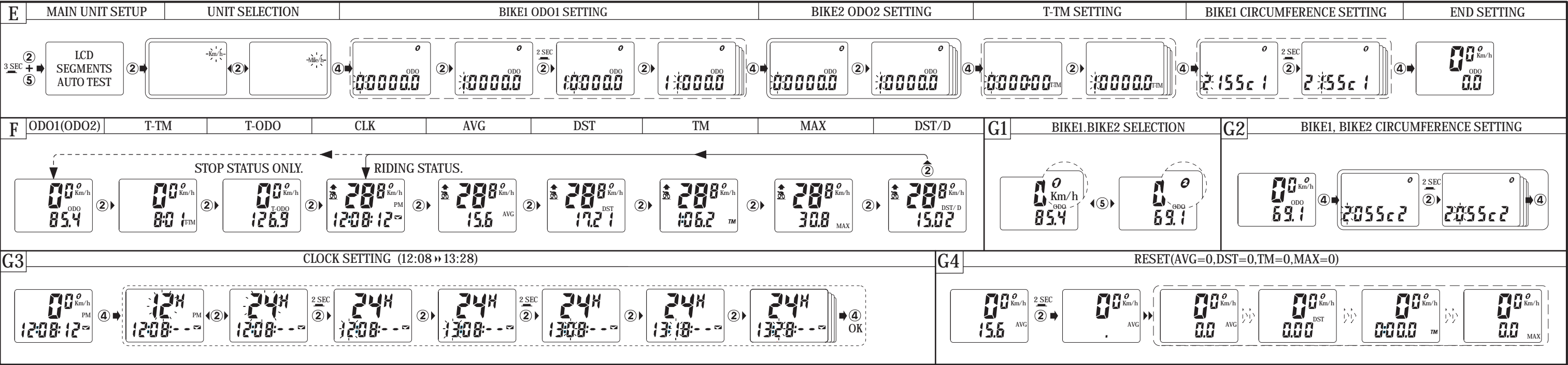
Tire Size	Circumference Number	Tire Size	Circumference Number
18 Inch	1436 mm	ATB 26 x 2.0 (650B)	2099 mm
20 x 1.75	1564	700C TUBULAR	2117
20 Inch	1596	700 x 20C	2092
22 Inch	1759	700 x 25C	2124
ATB 24 x 1.75	1888	700 x 28C	2136
24 Inch	1916	27 Inch (700 x 32C)	2155
24 x 1 3/8	1942	700 x 35C	2164
ATB 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

●SPECIFICATIONS

FUNCTIONS		SPECIFICATIONS	INCREMENTS	ACCURACY
Current Speed		0.0-199.9 Km/h 0.0-120.0 Mile/ h	0.1 KPH/MPH	1 %
Odometer 1 or 2	ODO	0.0-99999.9 Km or Mile	0.1 Km/Mile	0.1 %
Total Time	T- TM	0H00M-9999H59M	1 Minute	0.003 %
Total Odometer	T-ODO	0.0-99999.9 Km or Mile	0.1 Km/Mile	0.1 %
12H or 24H Clock		12HR with AM/PM or 24HR	1 SECOND	0.003 %
Average Speed	AVG	0.0-199.9 Km/ h 0.0-120.0 Mile/ h	0.1 Km/Mile	0.1 %
Trip Distance	DST	0.00-999.99 Km or Mile	0.01 Km/Mile	0.1 %
Trip Time	TM	0M00.0S-59M59.9S 1H00M00S-99H59M59S	0.1 SECOND 1 SECOND	0.003 %
Maximun Speed	MAX	0.0-199.9 Km/ h 0.0-120.0 Mile/ h	0.1 KPH/MPH	1 %
Distance Today	DST/D	0.00-999.99 Km or Mile	0.01 Km/Mile	0.1 %
Speed Pacer		Speed is higher than the average speed. Speed is lower than the average speed.		
Remark: All functions data are updated about one second.				

Sensor:	No Contact Magnetic Sensor.
Sensor cable:	86cm
Wheel Circumference Setting:	0mm - 3999mm (1mm increment)
Operation Temperature:	0°C ~ 60°C (32°F ~ 140°F)
Storage Temperature:	- 20°C ~ 70°C (- 4°F ~ 158°F)
Battery Type:	1.5V Battery x 1 (LR44 Typical)
Battery Operating Life:	About 2 years (Based on an average of 1.5 hours use per day.) (The original factory-attached battery may be shorter than this period due to shipping and storage time.)
Dimensions/Weight:	44.8 x 54 x 18.2mm/28.3g
M-TPC3-GB 5/05	

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; (5):Bike1/Bike2 Selection 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. (5) Bike1/Bik2 Button.}

D. MAIN UNIT SETUP (ALL CLEAR)

INITIATING COMPUTER

1. A battery comes installed in the computer.
2. Press and hold MODE button (2) and Bike1/Bike2 selection button (5) simultaneously for more than 3 seconds to initiate 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:
 - 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. (Fig. D1)
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.
3. Enter millimeter value into computer as described in Data Setting.
Option: Use suitable circumference value from table. (Fig. D2)
4. Computer will return to normal operation after wheel circumference is entered.

E. FUNCTIONS

SPD: Current Speed

Current speed is always displayed using the large display set.

ODO1, ODO2: Bike1 odometer, Bike2 odometer (STOP STATUS ONLY)

1. Odometer accumulates the total distance only when bicycle is moving.
2. This computer is designed to hold data for two separate bicycles. Odometer is separate for each bicycle.
3. ODO data is shown for current bicycle only.

T-TM: Total Riding Time (STOP STATUS ONLY)

T-TM accumulates total ride time of bike1 or bike2.

T-ODO: Total Odometer (STOP STATUS ONLY)

T-ODO is the sum of the ODO1 plus ODO2.

☑ : 12HR or 24HR Clock

12HR or 24HR time format can be displayed.

AVG: Average Speed

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 computer to restart average speed function.

DST: Trip Distance

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

TM: Ride Time

1. TM counts ride time from last RESET.

2. TM begins counting time when bicycle starts to move and stops 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.

MAX: Maximum Speed

Displays the highest speed from last RESET operation.

DST/D: Daily Distance

DST/D accumulates ride distance over a 24 hour period. Data is cleared at 24:00:00 (0:00:00) automatically.

⬆ / ⬇ : 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.

F. BUTTON and NORMAL OPERATIONS

MODE BUTTON (2) (Fig. F)

Press MODE button to cycle between function screens.

SET BUTTON (4)

Press SET button to enter data setting functions for bike1 / bike2 wheel circumference, or change current time.

BIKE1/BIKE2 SELECTION BUTTON (5)

1. This computer has memory for two different wheel circumferences and stores each data separately.
2. Press BIKE1/BIKE2 SELECTION button to switch between bike1 and bike2. (Fig. G1)

BIKE1 or BIKE2 WHEEL CIRCUMFERENCE (Cmm) RESET

1. Press BIKE1/BIKE2 SELECTION button (5) to select either bike1 or bike 2. (Fig. G2)
2. Press MODE button (2) to change to ODO display.

3. Press SET button (4) to enter circumference setting screen.
4. Adjust data as described in section D, data setting procedures.

CLOCK SETTING

1. Press MODE button (2) to change to clock screen.
2. Press SET button (4) to enter clock setting function.
3. Press MODE button (2) to choose 12HR or 24HR time format.
4. Adjust time as described in section D, data setting procedures.

RESET OPERATION

1. Press and hold MODE button until LCD screen goes blank. Release MODE button to reset AVG, DST, TM and MAX data from stored values to zero. (Fig. G4)
2. ODO, T-TM, T-ODO, ☑, and DST/D will not be reset by this action.

AUTOMATIC START/STOP

1. The computer will automatically start or stop when bicycle moves or stops.
2. A blinking icon " ⚙ " will indicate when computer is counting data.

POWER AUTO ON/OFF

Computer will automatically turn off after 4 minutes of inactivity and display only the time. The computer will turn on when the bicycle begins to move, or any button is pressed.

LIMITED WARRANTY

2-year Warranty: All electronic and mechanical components against manufacturer defects only.
Battery is 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 130 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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