

- A. Main Display (Speed)
 - B. Mode Symbol
 - C. Speed Scale Symbol
 - D. Auto Mode Symbol
 - E. Sub-Display (Selected Function)
 - F. Bracket
 - G. Mode Button
 - H. Start/Stop Button
 - I. Set Button
 - J. AC Button
 - K. Battery Case Cover
 - L. Contacts
1. Bracket
 2. Wire
 3. Sensor
 4. Sensor Bands-A (S)(L)
 5. Sensor Bands-B
 6. Magnet
 7. Sensor Band Rubber Pad
 8. Bracket Rubber Pad (2 pcs.)
 9. Wire Securing Tape
 10. Sensor Band Screw

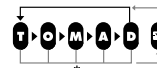


Fig. 1

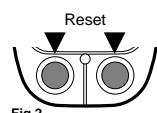


Fig. 2



Fig. 3

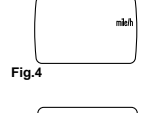


Fig. 4

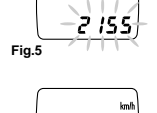


Fig. 5

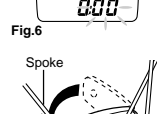


Fig. 6

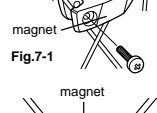


Fig. 7-1

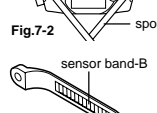


Fig. 7-2

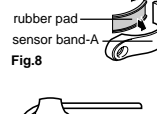


Fig. 8

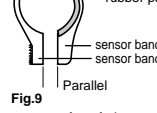


Fig. 9

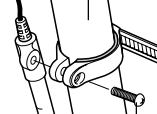


Fig. 10

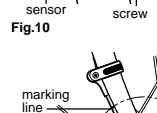


Fig. 11

BUTTON FUNCTION

• MODE Button (left button)
Changes the display in the order shown in fig. 1, and data is displayed on the sub-display. *If held over 2 seconds, 24-hour clock appears.

• START/STOP Button (right button)
Starts and stops the measurement of trip distance and elapsed time. During operation, speed scale symbol flashes. In Auto Function, this button is invalid.

• SET Button
This is for setting the wheel circumference and clock time, switching on/off Auto Function and to clear all present data and any irregularity. When pressed in stop state in each mode, the following can be revised.

- In **O** mode Wheel circumference
- In **24** mode 24-hour clock
- In **T, D** or **A** mode On/off the Auto function

• AC Button (All Clear)
By pressing AC Button on the back, all data stored (O data, speed scale, wheel circumference and clock time) is erased. All displays illuminate, then mile/h symbol illuminates. This operation is to be executed after replacing battery or when irregular display occurs due to static electricity, etc. Since all memories are erased, set necessary data again according to "Main Unit Preparation".

Reset Operation: (Fig. 2)
Select any mode except O, then press MODE Button and START/STOP Button simultaneously. M, A, D and T will become zero. (When done in O, registered wheel circumference will be displayed.)

MAIN UNIT PREPARATION

The following must be completed before operating.

(1) How to measure wheel circumference (L) of your bike (Fig. 3)
Put a mark on the tire tread and ride the bike one full wheel revolution. Mark the start and the end of the revolution on the ground and then measure the distance between the two marks. This is your actual circumference. Or, the "Selecting Values Cross Reference Table" tells you an approximate circumference according to tire size.

(2) Setting Speed Scale (Fig. 4)
By pressing AC Button (All Clear Operation), all displays illuminate, and then mile/h symbol illuminates (fig. 4). Km/h and mile/h are alternately displayed with each press of Start/Stop Button. Press Set Button to set desired speed scale; then the display will change as fig. 5.

(3) Setting the wheel circumference (Fig. 5)
The wheel circumference of 2155mm (standard circumference for 27" wheel) is displayed. When using 2155mm without revision, press Set Button. Speed/Elapsed Time T will be displayed and 2155mm is set. For revision, press Start/Stop Button to increase the number and Mode Button to decrease. To increase/decrease rapidly, hold down respective buttons. When the desired number appears, press Set Button; Speed/Elapsed Time T will be displayed and the number is set.

(4) Resetting or changing the wheel circumference
Set main unit in O with MODE Button, and stop it with START/STOP Button. Press SET Button. The stored number will flicker on the sub-display. Revise the number as desired according to the instructions in (3).

Setting the clock time (Fig. 6)
Press MODE Button over 2 seconds to select 24, and stop it with START/STOP Button. Then press SET Button, and minutes flash. Press START/STOP Button to advance minutes by one. To advance rapidly, hold down the button. Set the time one or two minutes ahead of the current time. Then press MODE Button, and hours will flash. Use START/STOP Button the same way. Press SET Button to complete time setting. *When you press the SET Button, the undisplayed seconds will turn to zero. For accuracy, set by the radio time signal.

MOUNTING TO BIKE

• Attach the magnet on the right spokes of front wheel as fig. 7. The spokes must run correctly through the inside the magnet as in fig. 7.
• Attach the sensor with Sensor Bands-A - B to the right fork. Choose a band that fits the fork diameter (S size for up to 24ø, L for oversize).

1. Insert the band-B into the slit of the band-A, and put the rubber pad inside of the band-A (fig. 8). Adjust the length in order that the screw-fastening part of the bands are parallel when mounted to the fork (fig. 9). *To pull out the band B from band A, tug strongly.
 2. Mount the adjusted bands to the fork along with the sensor, by temporarily tightening the screw (fig. 10).
 3. Align the magnet's center and the sensor's marking line (fig. 11), and make sure of 2mm clearance between the magnet and sensor (fig. 12). Then tighten the screw securely. Cut the excess of the band-B with a nipper or the like.
- Secure the wire with tape as fig. 13. Wind the wire round the outer cable and adjust length. Loosen the wire in the area marked with the arrow so that the wire does not hinder handlebar operation.
 - Use either 1mm- or 2 mm-thick pads if necessary, according to handlebar diameter. Attach the bracket close to the handlebar stem (fig. 14).
 - Slide main unit onto the bracket from front until it clicks into position. To remove, pull it off forward while pushing down the lever. (fig. 15)

• Test
Mount main unit. Lift the front wheel off the ground and spin it to check if the speed is displayed. If not, adjust the position of magnet and sensor again.

How to replace the battery
Turn main unit over, remove battery case cover with coin and insert a new lithium battery properly (CR2032) with the (+) pole upward (fig. 16), and close the cover securely.
*After replacing battery, be sure to press AC Button and set necessary data again.

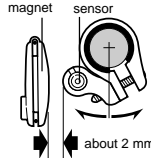


Fig. 12

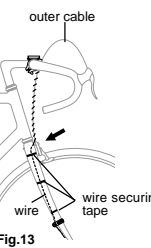


Fig. 13

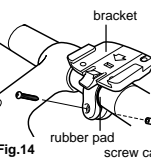


Fig. 14

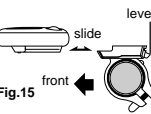


Fig. 15

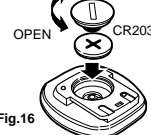


Fig. 16

MEASURING AND DISPLAY FUNCTIONS

S Current Speed 0.0(3.0) - 65.9 mile/h [±0.3 mile/h under 31 mile/h]
This is always displayed on the main display and updated once a second.

O Total Distance (Odometer) 0.0 - 99,999 mile [±0.1 mile]
This is continuously measured until battery wears down or all clear operation is done. At 10,000 miles(km), it returns to zero and counting begins anew.

M Maximum Speed 0.0(3.0) - 65.9 mile/h [±0.3 mile/h]
With Reset operation, it returns to zero and counting begins anew.

A Average Speed 0.0 - 65.9 mile/h [±0.3 mile/h]
The average speed from start to current point is displayed within 27 hours 46 minutes 39 seconds (99,999 seconds) or 999.99 miles (km). If either is exceeded, (E) is displayed and calculation ceases.

D Trip Distance 0.00 - 999.99 mile [±0.01 mile]
The trip distance from start to current point is displayed. With Reset operation, it returns to zero.

T Elapsed Time 0:00'00" - 9:59'59" [±0.003%]
Elapsed time is measured from start to current point, in units of hours, minutes and seconds. At 10 hours, it returns to zero and counting begins anew. With Reset operation, it returns to zero.

24 24-hour clock time 0:00' - 23:59' [±0.003%]
The current time is displayed by a 24-hour clock.

AUTO (AUTOMATIC START/STOP) FUNCTION

This function switches the main unit to start or stop automatically, in which **AT** symbol appears on the screen, and you are free from pressing START/STOP Button each time.

• How to switch on/off the Auto Function.
In **T, D** or **A**, this function switches on/off with each press of SET Button. When on, **AT** symbol appears. *With this function, it ceases measuring elapsed time during a stop. *2 seconds may be elapsed if mount the main unit to the bracket with this function on.

POWER SAVING FUNCTION

When main unit is left without receiving any signal for 60-70 minutes continuously, power supply is shut down and main unit will display (24) only as the figure. By pressing MODE Button or START/STOP Button, or by receiving signal, this function is released.

TROUBLE SHOOTING

- The following situations do not indicate malfunction of the cyclocomputer. Check the following before taking to repair.
- * When current speed does not appear, short-circuit the contact on the back with metal. The unit will function normally if the speed display appears.
 - Display response is slow.
 - Is it at a low temperature under 32°F(0°C)?
 - It returns to normal state when temperature rises.
 - No display.
 - Has the Lithium Battery in the main unit worn out?
 - Replace the Lithium Battery with a new one.
 - Incorrect data appear.
 - Execute "All Clear" operation.
 - Current speed does not appear.
 - Is there anything on the contact of the main unit or of the bracket?
 - Wipe the contact clean.
 - Is the distance between sensor and magnet too far?
 - Are the marking line of the sensor and the center of magnet matched each other?
 - Refer to "Sensor/Magnet Mounting" and re-adjust correctly.
 - Is the wire broken?
 - Replace the Bracket & Sensor part with a new one.
 - Transmission signal loss in damp or wet conditions.
 - Water or condensation may collect between the bracket sensor and the computer causing an interruption in the data transmission. Wipe the contacts with dry cloth. Contacts can also be treated with a water repellent silicon jelly from an automotive parts or hardware store. Do not use industrial water repellent; it may damage the bracket.
- When the START/STOP Button is pressed, the unit doesn't activate or stop.
 - Is the unit in the Auto function?
 - The START/STOP Button doesn't function in the Auto function.

MAINTENANCE/PRECAUTIONS

- Do not leave the main unit exposed to direct sunlight when the unit is not in use.
- Do not disassemble the main unit, sensor and magnet.
- Don't pay too much attention to your computer's functions while riding! Keep your eyes on the road and duly consider to traffic safety.
- Check relative position of sensor and magnet periodically.
- For cleaning, use neutral detergent on soft cloth, and wipe off later with dry cloth. Do not apply paint thinner, benzine, or alcohol, to avoid damages on the surface.
- If there is mud, sand or the like clogs between the button and the body, the movement of the button may be disturbed. Softly wash away such objects with water.

Specifications

Applicable Cycle Sizes:	10mm - 2,999mm	
Applicable Fork Diameter:	11ø - 36ø (S:11 - 26ø L:21 - 36ø)	The length of the wire: 70cm
Power Supply:	Lithium Battery (CR2032 X 1)	
Battery Life:	Approx. 3 years (The life of the first factory-loaded battery may be shorter than this period.)	
Dimension/Weight:	1-15/16" x 1-25/32" x 11/16" (49 x 45 x 17mm) 0.9 oz (25.5 g)	* The specifications and design are subject to change without notice.



Cateye Kosmos

CYCLOCOMPUTER
Model CC-ST300



U.S. Pat. Nos. 4633216/4642606/5236759/5226340 and Design Patented.
Copyright © Feb. 1995 CATEYE Co., Ltd.
CCMST3-970220 [0687295] 4

Specifications/Caracteristiques techniques/Technische daten/Specificaties/Caratteristiche tecniche/Especificaciones/仕様

Controller/Calculateur/Controler/Controler/Elaboratore/Contador 制御方式 ----- 4-bit 1-chip Microcomputer (Crystal Controlled Oscillator)
Display/Affichage/Anzeige/Display/Visualizzazione/Pantalla 表示方式 ----- Liquid Crystal Display
Sensor/Detecteur/Sensor/Sensor/Rivelatore/Sensor 検知方式 ----- No-contact magnetic sensor
Operating Temperature Range/Temperaturerange d'utilisation/zulässige Betriebstemperatur/Toegestane temp./Temperatura di utilizzo/使用温度範囲 ----- 0°C - 40°C (32°F - 104°F)

LIMITED WARRANTY

1-Year Warranty for Main Unit Only

(Accessories/Attachments and Battery Consumption excluded)

If trouble occurs during normal use, the part of the Main Unit will be repaired or replaced free of charge. The service must be performed by Cat Eye Co., Ltd. To return the product, pack it carefully and remember to enclose the warranty certificate with instruction for repair. Please write or type your name and address clearly on the warranty certificate. Insurance, handling and transportation charges to our service shall be borne by person desiring service.

Address for service: CATEYE CO., LTD.

2-8-25, Kuwazu, Higashi Sumiyoshi-ku, Osaka 546 Japan
Attn.: CAT EYE Customer Service Section

Service & Research Address for United States Consumers:

CATEYE Service & Research Center
1705 14th St. 115 Boulder, CO 80302
Phone: 303-443-4595 Toll Free: 800-SCATEYE
Fax: 303-473-0006 e-mail: CatEyeUSA@aol.com

GARANTIE LIMITÉE

1 An de Garantie sur l'Unité Principale Uniquement

(Les accessoires et la pile sont exclus de la garantie)

En cas de problème en cours d'utilisation normale, l'unité principale sera réparée ou remplacée gratuitement. Par Cat Eye Co., Ltd. Lors du renvoi du produit, il y a lieu de l'emballer soigneusement et de joindre le certificat de garantie avec les instructions de réparation. Les nom et adresse de l'acheteur doivent figurer de manière lisible sur le certificat de garantie. Les frais d'assurance, de manutention et d'envoi à notre Service Réparations seront supportés par le demandeur de la réparation.

Adresse Service Réparations: CATEYE CO., LTD.

2-8-25, Kuwazu, Higashi Sumiyoshi-ku, Osaka 546 Japan
Attn.: CAT EYE Customer Service Section

BEGRENZTE GARANTIE

1-Jahr-Garantie: Auf den Computer

(Ersatzteile/Zubehörteile sowie Batterie nicht eingeschlossen)

Falls während des normalen Gebrauchs Fehler auftreten, wird das entsprechende Teil kostenlos repariert oder ersetzt. Die Reparatur muß von CAT EYE Co., Ltd. durchgeführt werden, und das zu reparierende Produkt muß direkt durch den Händler an CAT EYE Co., Ltd. gesandt werden. Bei der Rückgabe des Gerätes zur Reparatur packen Sie es sorgfältig anbei. Achten Sie darauf, Ihren Namen und Ihre Anschrift klar und deutlich lesbar auf die Garantiekarte zu schreiben, damit das Gerät so schnell wie möglich nach Beendigung der notwendigen Reparatur/Einstellung an Sie zurückgesandt werden kann.

Anschrift bei Garantieansprüchen: CATEYE CO., LTD.

2-8-25, Kuwazu, Higashi Sumiyoshi-ku, Osaka 546 Japan
z. H.: CAT EYE Kundendienstabteilung oder wenden Sie sich bitte an den entsprechenden Importeur.

GARANTIEBEPALINGEN

1 jaar garantie, alleen geldig op de computer

(accessoires, aansluitingen en gebruik van batterij uitgezonderd)

Mochten er problemen optreden gedurende normaal gebruik, dan geschiedt reparatie of vervanging kosteloos. Dit doet door de fabrikant Cateye Co., Ltd. uitgevoerd te worden. Bij terugzending van de computer moet deze zorgvuldig verpakt worden en dient het garantiebewijs en een beschrijving van het probleem meegezonden te worden. Vermeld duidelijk uw naam en adres in blokletters of getypt op het garantiebewijs. Verzekerings- verzend- en transportkosten zijn voor rekening van de koper.

Service adres: CATEYE CO., LTD.

2-8-25, Kuwazu, Higashi Sumiyoshi-ku, Osaka 546 Japan
ter attentie van: Cateye klantenservice

GARANZIA LIMITATA

1 Anno di Garanzia soltanto sull'Unità Principale

(Gli accessori e la pila sono esclusi dalla garanzia)

In caso di problema durante l'impiego normale, l'unità principale verrà riparata o sostituita gratuitamente da Cat Eye Co., Ltd.. Al momento del ritorno del prodotto occorre imballarlo con cura allegandogli il certificato di garanzia con le istruzioni per la riparazione. Il nome e l'indirizzo dell'acquirente devono essere presenti in modo leggibile sul certificato di garanzia. Le spese di assicurazione, di manutenzione e di spedizione al nostro Servizio Riparazioni saranno a carico del richiedente la riparazione.

Indirizzo Servizio Riparazioni: CATEYE CO., LTD.

2-8-25 Kuwazu, Higashi Sumiyoshi-ku, OSAKA 546, Giappone.
Att: Dipartimento Assistenza Clienti

GARANTIA LIMITADA

Se garantiza por un año únicamente el grupo central

(Los accesorios, aditamentos y el consumo de la pila están excluidos)

Si ocurriera alguna avería durante el uso normal, se reparará o sustituirá la pieza o el grupo central. Cat Eye Co., Ltd. deberá realizar la reparación. Para devolver el producto, envuélvalo cuidadosamente y no olvide incluir el certificado de garantía y las instrucciones para repararlo. Rogamos escribir claramente a mano o a máquina su nombre y dirección. Los gastos de seguro, manipulación y transporte serán a cargo de la persona que solicite la reparación.

Dirección para las reparaciones: CATEYE CO., LTD.

2-8-25, Kuwazu, Higashi Sumiyoshi-ku, Osaka 546 Japan
Attn.: CAT EYE Customer Service Section

製品保証について

1年保証：コンピュータのみ（付属品及び電池の消耗は除く）

正常な使用状態で万一故障した場合は無料で修理・交換いたします。保証書にお客様のお名前・ご住所・ご購入日・故障状態をご記入の上、製品と共に当社宛て直接お送りください。お送りいただく際の送料はお客様にてご負担願います。修理完了後、当社より郵送にてお届けさせていただきます。

【宛先】 株式会社キャットアイ 製品サービス課

〒546 大阪市東住吉区桑津2丁目8番25号
TEL: (06)719-2631 FAX: (06)719-2362

* アクセサリーパーツを別途販売していますのでご利用ください。

Setting Values Cross Reference Table (The tire size is marked on both sides of the tire.)

Table de Correspondance des Valeurs de Réglage (La dimension du pneu figure de chaque côté du pneu)

Wertetabelle zur Einstellung des Radumfanges (die Radgröße entnehmen Sie der Aufschrift des Reifens)

Table voor het bepalen van de wielomtrek (de bandenmaat staat vermeld aan beide zijden van de band)

Tabella delle Corrispondenze dei Valori di Regolazione (La dimensione del pneumatico figura su ogni lato del pneumatico)

Tabla de Valores (El tamaño de la rueda está marcado al lado de la llanta)

タイヤ周長ガイド (タイヤサイズは通常タイヤの側面に記載されています)

TIRE SIZE	L(mm)	TIRE SIZE	L(mm)	TIRE SIZE	L(mm)	TIRE SIZE	L(mm)
dimension du pneu		dimension du pneu		dimension du pneu		dimension du pneu	
Radgröße		Radgröße		Radgröße		Radgröße	
bandenmaat		bandenmaat		bandenmaat		bandenmaat	
dimensione del pneumatico		dimensione del pneumatico		dimensione del pneumatico		dimensione del pneumatico	
Tamaño de rueda		Tamaño de rueda		Tamaño de rueda		Tamaño de rueda	
タイヤサイズ		タイヤサイズ		タイヤサイズ		タイヤサイズ	
20 x 1.75	1491	26 x 1-1/8 Tubular	1970	27 x 1	2145	700 x 25C	2105
24 x 1	1753	26 x 1-3/8	2068	27 x 1-1/8	2155	700 x 28C	2136
24 x 3/4 Tubular	1785	26 x 1-1/2	2100	27 x 1-1/4	2161	700 x 30C	2170
24 x 1-1/8 Tubular	1795	26 x 1.40	2005	27 x 1-3/8	2169	700 x 32C	2155
24 x 1-1/4	1905	26 x 1.50	1985	650 x 35A	2090	700C Tubular	2130
24 x 1.75	1890	26 x 1.75	2023	650 x 38A	2125	700 x 35C	2168
24 x 2.00	1925	26 x 1.95	2050	650 x 38B	2105	700 x 38C	2180
24 x 2.125	1965	26 x 2.00	2055	700 x 18C	2070	700 x 44C	2224
26 x 1(559mm)	1913	26 x 2.1	2068	700 x 19C	2090		
26 x 1(650c)	1952	26 x 2.125	2070	700 x 20C	2086		
26 x 1.25	1953	26 x 2.35	2083	700 x 23C	2096		

169-6560 (# 169-6565)

Bracket Sensor Kit (Long)
Kit Support Unité Principale et Détecteur (Long)
Halterung+Radsensor Ausrüstung für Vorderradmontage (Lang)
Bracket en sensor/kitset (Lang)
Elemento da montare: Supporto Unità principale e Sensore (Largo)
Conjunto de soporte y sensor
ブラケットセンサーキット(ロング)



169-6567 (# 169-6562)

Center Mount Bracket Kit (Long)
Kit de montage central de l'unité principale (Long)
Halterung für Montage an der Lenkermitte (Lang)
Stuurbocht Bevestiging Set (Lang)
Kit di montaggio al centro del manubrio (Lungo)
Kit Soporte pala Montaje Central (Largo)
センターマウントブラケットキット(ロング)



169-6568

Bracket Sensor Kit for Aero Bar
Kit de Montage du Collier de Détecteur pour Barre Aero
Halterung und Radsensor für Aero-Lenker
Sensor bevestigingset voor Aero Stuurbocht
Kit di montaggio del Collare del Sensore per Barra Aero
Kit abrazadora de sensor para manillares Aero
エアロバー用ブラケットセンサーキット



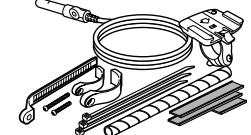
169-6569

Stem Mount Bracket Kit
Kit de montage de l'unité principale sur la broche du guidon
Halterung für Montage an der Lenkerstange
Stuurpen Bevestiging Set
Kit di montaggio sull'attacco manubrio
Kit Soporte pala Montaje en Tija
ステム用ブラケットセンサーキット



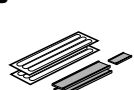
169-9730

Heavy Duty Wire and Bracket Sensor Kit
Kit de Fil Renforce et Supports d'Unité Principale et de Détecteur
Nachrüstset mit Halterung, Sensor und verstärktem Sensorkabel
Extra sterke kabel en bracket sensor set
Filo Ultra Resistente e Attacco Completo
Kit Soporte del Sensor y Alambre de Servicio Pesado
ヘビーデューティワイヤ&ブラケットセンサーキット



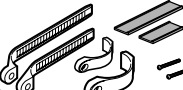
169-6170

Attachment Kit
Kit de Gamitures
Befestigungsmaterial
Kabelbevestigingset
Guarnizioni da montare
Elementos de fijación
アタッチメントキット



169-6280

Universal Sensor Band
Gamiture Universelle pour Détecteur
Universal Befestigungsband
Universale Sensor klemstrip
Guarnizione Universale per Sensore
Banda del Sensor Universal
ユニバーサルセンサーバンド



166-5120

Wheel Magnet
Aimant pour roue
Radmagnet
Wielmagnet
Magnete ruota
Iman de la rueda
ホイールマグネット



166-5150

Lithium Battery (CR2032)
Pile au lithium (CR2032)
Lithium-Batterie (CR2032)
Lithium Batterij (CR2032)
Bateria de Lítio (CR2032)
Bateria de Lítio (CR2032)
リチウム電池 (CR2032)

