

**Cycle Computer V1.28**

**Congratulations!**  
You have decided for a cycle computer to help you achieve your health & wellness. It gives you the true image of your exercise work in precise way.

V1.28 is designed to give feedback required by the most discerning cyclists, in which it will all the functionality on one large easy to read display.  
V1.28 is a premier cycle computer for your challenge ride. With the wireless technology, users can enjoy their cycling.

Before use V1.28, please read through the manual that guides you on how to operate it correctly & quickly. V1.28 offers you very useful features to customize your exercise and gain the best & accurate measurement. Please keep this manual for reference.

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**Item List**

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**Wearing Chest Belt for Heart Rate Function**

The transmitter should be positioned right below the breasts/ pectoral muscles. The strap should be comfortable, but secure.  
Note: Transmitter will automatically get into "wake up" mode after the user wear it.

Note: Do not use V1.28 near high voltage power cables.

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V1.28 contains Heart Rate target zone function, it can help the user to set up the personal target zone.

Training Areas:  
50% - 60%: Maintain Fitness  
60% - 70%: Endurance  
70% - 80%: Slight Resistance  
80% - 90%: Sustained Resistance

Target zone will vary for each individual, depending on Age, Personal fitness goals, Existing health considerations (High blood pressure, circulation or respiration), Medications and Doctor's recommendations.

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**Installing the Cadence & Speed Sensor**

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**How to Setup Cycle Computer**

**1) Wheel Circumference**  
To get the accurate result, the wheel size should be correct. Mark the symbol on the tire and ride one circle. Then measure the length between two points that result comes out. Or you can get wheel circumference by the following equation:  
Circumference (mm) = 2π x 1.48 (inch) x 2.54 (1 inch = 2.54 cm)  
R=Radius in centimeter

**2) Installing the Bracket**  
Use the rubber pad to tighten the bracket to the handlebar or stem.

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**3) Installing the Cadence & Speed Sensor**  
Find a suitable point on the left Chain Stay to attach the Cadence & speed sensor. The distance between cycle computer & the sensor would approximately be 150 cm.

**4) Installing the Speed Magnet**  
Secure the Speed Magnet on the spoke of the back wheel and must face the Speed Sensor.

Note: Turn the speed handle to adjust speed sensor.  
The Max distance between speed sensor and Magnet should be 5mm.

**5) Installing the Cadence Magnet**  
Secure the Cadence Magnet on the Crank and must face the Cadence Sensor

Note: The Max distance between the Cadence sensor and Magnet is 5mm.  
Note: To make sure that everything has been strip correctly, before riding the bicycle. Please rotate the wheel to check the the sensor and magnet installation, initial flashing green light indicates the sensor detected magnets signal normally.

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**How to mount the bracket**

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**Display Legend**

A. Average Speed Symbol If Upper/Lower than Current Speed  
B. Current Speed Display  
C. Speed Scale Symbol Km/h or Mile/h  
D. PM Indicator  
E. Sub Display  
F. Current Heart Rate Display  
G. Current Cadence/  
H. Heart Rate  
I. Heart Rate  
M. Mode (Speed)  
N. Scan/CLR  
O. Altitude (Cadence)

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**Speed Heart Rate (Dial Scan)**

The main purpose of ID Scan is to pair up the cycle computer to the speed/cadence sensor or chest belt as well as to prevent signals and cross talk from other cycle computers. Each cycle computer set has been pre-ID Scan right after its produced so the users do not necessarily need to run ID-Scan after their purchase. The users would need to run ID-Scan in additional speed/cadence sensor, chest belt are being replaced or purposed for second bike use.

Note: The Bike1/Bike2 can coordinate with one individual code from one speed sensor or two individual codes with additional speed sensor, chest belt respectively.

Under any mode, press and hold "M" key and "A" key together for 6 seconds to go into SCAN mode until "SPD/CAD ID" displays.  
Press "SET" key to start to scan speed sensor ID, when the percentage of "R" SCAN shows 100% means scan completed.  
If after completed "R" SCAN, V1.28 will automatically start to scan chest belt ID, when the percentage of "S" SCAN shows 100% means scan completed. (Please note that chest belt and speed sensor have to be in wake up mode).  
Note: During ID Scan process, press and hold "M" key to return to another mode.

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**TRIP TIME MODE**

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**Low Battery Mode**

If low power for the battery, under Clock mode V1.28 will display the signal to indicate the low battery information.

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**Mode Change**

Press "M" key shortly to change mode.

Main Mode Change (Press "M" key to switch each mode)  
DATE MODE: ODO BIKE 1 MODE (Odometer Bike 1 Mode)  
STOP WATCH MODE: ODO BIKE 2 MODE (Odometer Bike 2 Mode)  
TRIP TIME MODE: TOT. ODO MODE (Total Odometer Mode)  
MAX. SPEED MODE: DATE/CLOCK MODE:  
AVG. SPEED MODE (Average Speed Mode)  
TRIP DIST MODE (Trip Distance Mode)

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**OPERATION PROCESS DATE/CLOCK MODE**

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**STOPWATCH Mode**

The user press Start/Stop key to start stopwatch, and press Start/Stop key again to stop stopwatch; to clean the data by holding Start/Stop key for 3 seconds.

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**TRIP TIME MODE**

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**Measure Mode**

**MAX. SPEED MODE**  
It displays the user's Max Speed from the beginning to the current point.

**AVG. SPEED MODE**  
It displays the user's Average Speed from the beginning to the current point.

Note: If the average speed is above below current speed, the symbol of A would show up.  
Note: If your time or distance is over the max. value (time 29 hr 59 min 59sec) & (Distance: 999.99km), it will not be able to measure correct average speed. The "Err" shows on the display. Once the time and distance value has been reset, the average speed will show normally.

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**TRIP DIST MODE**  
It displays the user's trip distance from the beginning to the current point.

**ODO BIKE 1 MODE**  
It displays the first setting of wheel size for odometer.  
Press "M" key, it will change to ODO BIKE 2 Mode.

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**ODO BIKE 2 MODE**  
It displays the second setting of wheel size for odometer.  
Press "M" key, it will change to TOT. ODO MODE.

**TOT. ODO MODE (Total Odometer Mode)**  
It displays the total odometer from the beginning to the current odometer.

Note: V1.28 will keep the value of ODO BIKE 1, ODO BIKE 2 and Total Odometer in the memory even after the user changes new battery. You can't set your last value of ODO BIKE1 and ODO BIKE 2 by following process as above ODO setting instruction.

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**How to set the Wheel size, Temperature and Language**

Press "M" key, under "TOT. ODO" or "ODO BIKE1" or "ODO BIKE2" press and hold "SET" key for 3 sec.  
(Press "M" key to switch each mode)  
"MAX" to "M" MODE  
BIKE1 or BIKE 2 MODE  
WHEEL SIZE MODE  
Temperature °F °C MODE  
LANGUAGE MODE

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**Operation Process**

Press Mode "M" Key until the screen display "TOT. ODO"  
Under "TOT. ODO", press and hold "SET KEY" for 3 sec will get into WHEEL SIZE SETTING MODE

KMH or MPH will select Km/h or Mile/h.  
Press MODE "M" Key "1" or "2" will flash.  
Press SET KEY to select BIKE 1 or BIKE 2

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**WHEEL SIZE**

Press "M" Key "wheel size in thousands will flash.  
Press "SET" key to adjust the number (0-2)  
Press "M" Key "wheel size in hundreds will flash.  
Press "SET" key to adjust the number (0-9)  
Press "M" Key "wheel size in tens will flash.  
Press "SET" key to adjust the number (0-9)  
Press "M" Key "wheel size in one will flash.  
Press "SET" key to adjust the number (0-9)

Note: Set the wheel size from 100mm to 2.999mm.  
If pressing Mode forward after adjusting wheel size shows Err it means your wheel size did not adjust correctly.

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**U/F SETTING MODE**  
Press "SET" key to select °C or °F.

**LANGUAGE SETTING MODE**  
Press "SET" key, it displays the current language setting mode (English is default).  
Press "SET" key to switch to other 5 languages mode.

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**BIKE 2 SETTING MODE**

Press "M" Key "1" or "2" will flash.  
Press "SET" key to select BIKE 2

NOTE: To set BIKE 2, please follow the previous steps for setting bike 1

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**Heart Rate Mode**

It displays the climbing value for this trip.  
Press "A" key, it would be change to TRIP CLIMB MODE.

Under "TRIP CLIMB MODE", press and hold "SET" key for 3 sec, it will automatically detect the HR signal from the user who wear transmitter and display the real time (HR TM) the user see HR function.

Press "M" key, it displays the time over target zone.  
Press "M" key, it displays the time in target zone.  
Press "M" key, it displays the below target zone.  
Press "M" key, it displays max. heart rate.  
Press "M" key, it displays the average heart rate.

NOTE: Under HR TM, AVG. PULSE or MAX PULSE, press and hold "SET" key for 3 seconds, it clear HR Data to Zero, the time in target zone, time over target zone, and time below target zone.)

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**How to set the Heart Rate Target Zone**

The user can set up your personal HR Target Zone to make your exercise more efficiently. Just set up your Maximum heart rate and minimum heart rate. V1.28 can calculate the time and show you how much time your heart rate is over, or below the Zone you have determined.

Under "OVER" or "IN" or "BELOW" mode, Press and hold "SET" key for 3 seconds to go to the maximum heart rate setting.  
Press "SET" key to adjust the maximum heart rate.  
Press "M" key to go to the minimum heart rate setting.  
Press "SET" key to adjust the minimum heart rate.  
Press and hold "M" key for 3 seconds.

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**How to use Altimeter**

The V1.28 uses barometric air pressure to measure the altitude. It can converts the data of current barometric pressure into the respective altitude.  
These holes must always stay open and clean.

**The Home Altitude**  
The "Home altitude" is the altitude of the starting location (home or starting point). This value can be found in the map internet or overmap. Once the value is entered into V1.28, it will calculate based on the inputted altitude automatically. An accurate calculation of altitude requires the precise information from home altitude.  
To precisely indicate altitude and climbing, home altitude must be set up in priority.

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**\* The Actual**  
The "Actual altitude" is the altitude of the location where the user currently situated at, it is different from the home altitude. The altitude information signs can usually be found when riding according the mountain or traveling.

**\* MAX ALTI**  
The Max ALTI displays the maximum altitude for the trip.

**\*TRIP CLIMB**  
The "TRIP CLIMB" tells you the climbing value for this trip. (TRIP CLIMB will increase only when you ride uphill).  
Note: that the climbing does not reach more than 4 meters, trip climb will not increase.

**\*ALTI BIKE1 and ALTI BIKE2**  
If the user is riding under BIKE1, ALTI BIKE1 will display the total Altitude value for BIKE1. If the user is riding under BIKE2, ALTI BIKE2 will display the total Altitude value for BIKE2.

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**\* Total Altitude**  
The "Total Altitude" is the measurement for how high of your total climbing the sum of bike 1 altitude and bike 2 altitude

**\* Altitude Gain and Loss**  
Altitude gain and loss tells you the vertical height ascending or descending over a period of time. Altitude function can be set into two systems. The metric system (min) and British system (feet/in). If the user is riding uphill, the screen will display ALTI.GAIN, with value increasing. If the user is riding downhill, the screen will display ALTI.LOSS, with value increasing.

Note:  
If the user never enter "Real Altitude value" into Actual Altitude in setup mode, V1.28 will automatically measure the altitude according to the HOME Altitude you have determined.

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**Cadence Mode**

Press "A" key shortly to switch mode function.  
MAX. CAD MODE (Max Cadence Mode)  
AVG. CAD MODE (Average Cadence Mode)

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**How to setting Altitude for V1.28**

**Setting Home Altitude**  
In order to make V1.28 to indicate altitude and climbing precisely, your home altitude must be set up in advance.

**Setting Actual Altitude**  
The temperature and weather changes are the key factors that influence the air pressure around the location where the user is actually situated. In order to correct the inaccuracy brought by the influence of temperature and weather changes, the user can adjust the actual altitude on V1.28 in accordance with the actual altitude value given or provided in geographic means.

Please see page 36 for "How to set Actual Altitude and Home Altitude"

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**Re-calibrating the altimeter**

Due to change in local barometric pressure influenced by temperature and wind, the user may notice the ending altitude is different from the home altitude as day goes by. It is normal because of pressure changes over time, therefore, we strongly recommended to re-calibrate the home altitude value in V1.28 before going out for a ride.

NOTE:  
Under any mode, press and hold "A" key and "M" key at same time for 3 sec until "SET HOME" display.  
You can adjust the value for actual altitude and return to your home altitude you have determined.

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**How to set Actual Altitude and Home Altitude**

Under "(TOT. ALTI or ALTI BIKE1) or ALTI BIKE2", press and hold "SET KEY" until ACT. ALTI mode display.  
Press "M" key to adjust Actual Altitude.  
Press "M" key to switch flashing number.

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**MAINTENANCE**

**V1.28 cycle computer**  
If the display contrast changes and figures become faint, it's time to replace the battery. Consider changing the computer sensor and transmitter batteries at the same time.

Note:  
Do not expose V1.28 computer to extremely cold or hot temperatures i.e. don't leave your unit in direct sunlight for extended periods of the time.

**Sensor**  
Check the position of sensor and magnet periodically. For current measurement, the sensor, magnet should not get wet, otherwise it may cause function error.

**Bracket/Magnet/Sensor band**  
The above items can be rinsed in surface fresh water or washed with a mild soap.

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**Mode Change for Altitude Mode**

Press A Mode Key shortly to change Altitude mode.

Altitude Mode Change (Press "M" key to switch Altitude mode under any Mode)

MAX. ALTI MODE: TOT. ALTI MODE  
TRIP CLIMB MODE: ALTI.GAIN MODE & ALTI.LOSS MODE  
ALTI BIKE 1 MODE: MAX. CAD MODE  
ALTI BIKE 2 MODE: AVG. CAD MODE

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**OPERATION PROCESS**

**ACT. ALTI MODE**  
It displays the altitude of the location where you currently are.  
Under any Mode, press A KEY to display ACT. ALTI on the screen.

**MAX. ALTI MODE**  
It displays the maximum altitude for the trip.  
Press "A" key, it would be change to MAX. ALTI MODE.

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**TRIP CLIMB MODE**  
It displays the climbing value for this trip.  
Press "A" key, it would be change to TRIP CLIMB MODE.

Note:  
Under Trip Climb Mode, MAX. ALTI, TRIP CLIMB, MAX. CAD, AVG. CAD, press and hold "SET" key for 3 sec, the data returns to zero.

**ALTI BIKE1**  
It displays the first setting of wheel size for The Altitude value.  
Press A key, it will change to ALTI. BIKE2

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**ALTI BIKE2**  
It displays the Altitude value from second wheel size.  
Press A key, it will change to TOT. ALTI

**TOT. ALTI**  
It displays the sum of Total Altitude from BIKE1 and BIKE2.

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**ALTI GAIN or ALTI LOSS**  
It displays how high or low you are currently riding per min.

For technical reason, Gain/Loss are for reference only.

**Cadence Mode**  
It displays your average cadence and Max cadence  
Under Altitude Mode  
Press "A" key, until Max. Cadence display.  
Press "M" key again, it will change to Average Cadence Mode.

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**Home Altitude**

Press "M" key to change to HOME ALTI, after setting up Actual Altitude.  
Press "SET" key to adjust Home Altitude.  
Press "M" key to switch flashing number.  
Press and hold "M" to exit the setting mode until TOT. ALTI display.

Note:  
If you are unable getting into any setting mode, please check Memory Mode (MEM MODE) as first. Please make sure MEM. Mode must be in "off" condition.

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**Battery replacement**

**V1.28 computer:**  
Unscrew the back cover. Look closely at the battery. Gently remove the battery and replace it with a new battery - model CR2032, the (+) side facing up.

**Sensor:**  
Unscrew the back cover. Look closely at the battery. Gently remove the battery and replace it with a new battery - model CR2032, the (+) side facing up.

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**TROUBLESHOOTING**

**Q1. Display is black or very light:**  
The battery power may be low. Try a new battery to make sure the battery is installed correctly.

**Q2. Display becomes dark or blank:**  
The unit is too hot. Place the unit in a shaded area, and it will return to normal.

**Q3. The unit operates slowly or strangely:**  
The unit is too cold. Warm the unit, and it will return to normal.

**Q4. Data is display varies enormously:**  
Check your surroundings for electric magnetic or high energy interference and move away from the source of interferences.

**Q5. Data is display shows slowly:**  
The unit may be affected by low temperature factor but it didn't influence the function reading. When the temperature rises, the data reading which will back to the normal.

**Q6. Current speed does not appear**  
It may be caused by the following situation: the distance & position between magnet and sensor to adjust or low battery power.

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**SPECIFICATIONS**

	Receiver	Speed Sensor	Transmitter & belt
Operating Temperature	0°C - 40°C	0°C - 40°C	0°C - 40°C
Storage Temperature	-10°C - 50°C	-10°C - 50°C	-10°C - 50°C
Battery Frequency	N/A	2.4GHz ± 10%	2.4GHz ± 10%
Unit Type	3 volt lithium 2032 cell	3 volt lithium 2032 cell	3 volt lithium 2032 cell
Weight	30 g grams	20 grams	65 grams 5.5%

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**Stepwatch Range:** 0-29 (hour); 59 (minute); 59 (Second)  
**Accuracy:** 1/100 (seconds)

**Timer Range:** 0-29 (hour); 59 (minute); 59 (Second)

**Current Speed Range:** 0-99.9 KM/0-62 Mile  
**AVG Speed Range:** 0-99.9 KM/0-62 Mile  
**MAX Speed Range:** 0-99.9 KM/0-62 Mile  
**(Trip) Distance Range:** 0-999.9 KM/0-600 Mile  
**Odometer Range:** 0-9999.9 KM/0-62000 Mile  
**Actual Altitude:** 0-3999m/0-9999ft  
**Max Altitude:** 0-3999m/0-9999ft  
**TRIP CLIMB:** 0-999m/0-9999ft  
**TOTAL CTI:** 0-9999m/0-9999ft  
**ALTI Gain/Loss:** 0-0.999m/0-9999ft  
**MAX Gradient:** 99%  
**AVG Gradient:** 99%

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**Limited Warranty**

This product is for three years limited warranty commencing on the date of purchase. The product will be free from defects in material and workmanship for three years from the date of purchase.

- Warranty does not cover the batteries, damages due to misuse, abuse or accidents, cracked or broken cases, negligence of precaution, improper maintenance or commercial use.
- Warranty is void if the repairs are done by non authorized service technician.
- The warranties contained herein are expressly in lieu of any other warranties, including implied warranties of merchantability and/or fitness for purpose. In no event shall manufacturer be liable for any damages, direct or incidental, consequential or special arising out of or related to the use of this manual or the products described herein.
- During this warranty period (three years) the product will either be repaired or replaced without charge.

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**Important Health Notice!**

Please read over the following information before using the Cycle Computer.

- Never use the cycle computer in combination with other medical implanted electronic equipment and device (especially heart pacemakers, EKG equipment, TENS equipment, cardio-pulmonary machines and pacer/maker).
- If you are severely ill or pregnant, please consult your doctor before using cycle computer.
- Keep this device away from children. It contains batteries, which might be swallowed by children.
- As with most electronic receiving devices, there can sometimes be interference that causes inaccurate display readings. Avoid using your cycle computer near common sources of interference. These include high voltage power lines, air conditioning motor units, fluorescent lights, wireless routers, mobile, and computers.

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**Wheel Size Chart**

Tire Scale	1mm	Tire Scale	1mm
14 x 1.50	1020	24 x 1.61	1955
14 x 1.75	1055	24 x 1.75	1890
16 x 1.50	1185	24 x 2.00	1925
16 x 1.75	1185	24 x 2.125	1965
18 x 1.50	1340	26 x 1.78	1920
18 x 1.75	1350	26 x 1.85	1915
20 x 1.75	1515	26 x 1.85	1955
20 x 1.50	1615	26 x 1.85	1955
20 x 1.50	1770	26 x 1.78	1970
22 x 1.12	1785	26 x 1.58	2068
24 x 1	1795	26 x 1.42	2100
24 x 1/4 Tubular	1785	26 x 1.40	2005
24 x 1-1/8	1795	26 x 1.50	2010

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Tire Scale	1mm	Tire Scale	1mm
26 x 1.75	2025	650 X 380	2105
26 x 1.95	2050	700 X 18C	2070
26 x 2.00	2055	700 X 19C	2080
26 x 2.10	2068	700 X 20C	2086
26 x 2.125	2070	700 X 21C	2096
26 x 2.35	2083	700 X 25C	2105
26 x 3.00	2170	700 X 28C	2136
27 x 1	2145	700 X 30C	2170
27 x 1-1/8	2155	700 X 32C	2155
27 x 1-1/4	2161	700C Tubular	2130
27 x 1-3/8	2169	700 X 35C	2168
650 X 35A	2090	700 X 38C	2180
650 X 38A	2125	700 X 40C	2200

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