

**Star Trac<sup>®</sup> Fitness**  
**E Series Bikes**  
**E- UB 8100/ E- RB 8110**

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**OWNER'S MANUAL**



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# **INTRODUCTION**

Thank you for choosing the *STAR TRAC E- UB / RB*. These bikes have been designed to provide the user the most rewarding experience based upon the carefully planned features it possesses. The design elements of these bikes will provide you with a comfortable, intuitive, safe and reliable experience, guiding you to a habit-forming lifestyle. Our mission is to provide products to mold lifelong habits for health and fitness, and our bikes will provide the path to meet your goals. Enjoy the ride.

## **ABOUT THIS MANUAL**

This manual is applicable to the *STAR TRAC E- UB8100 /E- RB8110* models. The manual is divided into six sections, as follows:

### **Introduction**

Provides an overview of each section within the manual.

### **Safety Instructions**

Provides guidelines, in multiple languages, for safely operating the Star Trac E- UB / RB.

### **Assembly and Setup**

Provides instructions for unpacking, assembling and setting up the Star Trac E- UB / RB.

### **Operating Instructions**

Provides a brief overview of the operation of the Star Trac E- UB / RB.

### **Preventive Maintenance**

Describes the preventive maintenance measures required to keep the Star Trac E- UB / RB in top condition.

### **Regulatory Information**

Provides regulatory information for the Star Trac E- UB / RB.

# SAFETY INSTRUCTIONS

This chapter includes fitness safeguards and precautions for the installation and use of the *STAR TRAC E- UB / RB*. Please read this chapter carefully before installing or using your equipment.

Safety instructions are provided in the following languages (in the order shown):

- English
- Dutch
- French
- German
- Italian
- Portuguese
- Spanish
- Swedish
- Chinese
- Japanese

## IMPORTANT SAFETY INSTRUCTIONS

These safety notes are directed to you as the owner of the *STAR TRAC E- UB / RB*. Please train all your users and fitness staff to follow these safety instructions.

### Do

- Do encourage each of your users to discuss their health program or fitness regimen with a healthcare professional.
- Do stop operating your E- UB / RB if you feel dizzy or faint.
- Do perform regular preventative maintenance.
- Do exercise slowly until you reach a level of comfort.
- Do use the E- UB / RB only for its intended use, as described in this manual.

### Do Not

- Do not let unsupervised children operate your E- UB / RB.
- Do not use without athletic shoes.
- Do not use in rainy weather outdoors, or in an enclosed pool environment.
- Do not drop or insert any object, hands, or feet into any opening, or underneath your E- UB / RB.
- Do not attempt to remove any shrouds or modify your E- UB / RB.

## WARNING

Your *STAR TRAC E- UB / RB* is designed for aerobic exercise in a commercial or consumer environment.

Please check with your physician prior to beginning any exercise program.

Do not push yourself to excess. Stop if you are feeling faint, dizzy, or exhausted. Use common sense when cycling.

Read the Owner's Manual in its entirety before operating your E- UB / RB.

Failure to obey this warning can result in injury or death.

## SAVE THESE INSTRUCTIONS

# DE BELANGRIJKE INSTRUCTIES VAN DE VEILIGHEID

Deze veiligheidsinstructies zijn aan u gericht als de eigenaar van de *STAR TRAC E- UB / RB*. Train uw leden en fitnesspersoneel om dezelfde veiligheidsinstructies te volgen.

## Doe Dit Wel

- Moedig uw leden aan om hun gezondheids- of fitnessprogramma met een geneeskundige te bespreken.
- Stop met de E- UB / RB als u zich duizelig voelt of het gevoel heeft dat u flauwvalt.
- Verricht regelmatig preventief onderhoud.
- Begin langzaam totdat u een comfortabel en veilig niveau heeft bereikt.
- Gebruik het E- UB / RB alleen voor het doel waarvoor het bestemd is en zoals in dit handboek beschreven.

## Doe Dit Neit

- Laat kinderen niet zonder toezicht de E- UB / RB bedienen.
- Gebruik de fiets niet zonder sportschoenen.
- Niet buiten in regenachtig weer gebruiken of in een omgeving met een overdekt zwembad.
- Laat nooit objecten in het apparaat vallen en steek geen objecten, handen of voeten in welke opening dan ook of onder het E- UB / RB.
- Verwijder nooit afschermingen en verander het E- UB / RB niet.

## WAARSCHUWING

Uw *STAR TRAC E- UB / RB* is ontworpen voor aerobics in een commerciële of consumentenomgeving.

Vraag advies aan uw arts voordat u met een fitnessprogramma begint.

Vraag niet teveel van uzelf. Stop als u het gevoel heeft dat u flauw gaat vallen, als u duizelig bent of uitgeput. Gebruik uw gezonde verstand bij het steppen. Lees de gebruikshandleiding helemaal door voordat u uw E- UB / RB gebruikt.

## SPAREN DEZE INSTRUCTIES

## INSTRUCTIONS DE SÛRETÉ IMPORTANTES

Ces consignes de sécurité sont destinées au propriétaire du *STAR TRAC E- UB / RB*. Veuillez enseigner ces consignes à tous vos membres et employés.

### À Faire

- Encouragez vos membres à discuter de leur programme de santé ou d'exercice avec un médecin.
- Arrêtez tout exercice sur le E- UB / RB si vous éprouvez un étourdissement ou une défaillance.
- Effectuez régulièrement un entretien préventif.
- Exercez-vous lentement jusqu'à ce que vous vous sentiez à l'aise et en sécurité.
- N'utilisez cet E- UB / RB que dans le but pour lequel il est conçu.

### À Ne Pas Faire

- Ne laissez pas des enfants utiliser le E- UB / RB sans surveillance.
- Ne permettez à personne de s'exercer sans chaussures athlétiques.
- N'utilisez pas l'appareil à l'extérieur par temps pluvieux ou à proximité d'une piscine.
- N'insérez jamais la main, le pied ou un objet dans les ouvertures de E- UB / RB, ni sous E- UB / RB.
- Ne modifiez jamais cet E- UB / RB et ne retirez aucun de ses éléments protecteurs.

## MISE EN GARDE

Votre *STAR TRAC E- UB / RB* est conçu pour l'exercice d'aérobic dans un contexte commercial ou à la maison.

Veuillez consulter votre médecin avant d'entreprendre tout programme d'exercice.

Évitez tout exercice excessif. Arrêtez us viys éprouvez un étourdissement, une défaillance ou de la fatigue. Fiez-vous à votre bon sens. Lisez attentivement la notice d'utilisation dans son intégralité avant d'utiliser votre E- UB / RB.

## GARDEZ CES INSTRUCTIONS

# WICHTIGE SICHERHEITSVORSCHRIFTEN

Diese Sicherheitshinweise sind an Sie, den Besitzer des **STAR TRAC E- UB / RB** gerichtet. Bitte weisen Sie Ihre Mitglieder und Mitarbeiter an, sich an die folgenden Sicherheitsvorschriften zu halten.

## Sie Sollten

- Ihren Mitgliedern nahelegen, ihr Gesundheitsprogramm oder Fitneß-Training mit einem Arzt zu besprechen.
- Die Benutzung des E- UB / RB beenden, wenn Benommenheit oder Schwindel auftritt.
- Das Gerät regelmäßig warten.
- Langsam trainieren, bis Sie sicher mit dem E- UB / RB umgehen können.
- Dieses E- UB / RB nur für den vorgesehenen Zweck gemäß der Beschreibung in diesem Handbuch verwenden.

## Sie Sollten Niemals

- Kinder das E- UB / RB unbeaufsichtigt benutzen lassen.
- Die Benutzung des E- UB / RB ohne die passenden Sportschuhe zulassen.
- Das Gerät bei Regenwetter im Freien oder in einem Hallen-bzw, überdachten Schwimmbad verwenden.
- Gegensände in eine Öffnung des E- UB / RB stecken oder darunter fallen lassen oder Hände bzw. Füße unter das E- UB / RB halten.
- Abdeckungen abnehmen oder das E- UB / RB ändern.

## WARNUNG

Das **STAR TRAC E- UB / RB** ist für das Aerobik-Training in einem kommerziellen oder Verbraucherumfeld vorgesehen.

Bitte konsultieren Sie Ihren Arzt, bevor Sie mit einem Trainingsprogramm beginnen.

Überanstrengen Sie sich nicht. Hören Sie auf, wenn Schwindel, Benommenheit oder Erschöpfung eintreten. Gehen Sie beim Training vernünftig vor. Lesen Sie bitte das Benutzerhandbuch vor Verwendung des E- UB / RB vollständig durch.

## BEWAHREN SIE DIESE ANWEISUNGEN AUF

## ISTRUZIONI DI SICUREZZA IMPORTANTI

Queste indicazioni sono indirizzate ai proprietari dello **STAR TRAC E- UB / RB**. Chiedete a tutti I membri della vostra palestra e al vostro staff di seguire queste istruzioni di sicurezza.

### Da Fare

- Incoraggiate i membri della vostra palestra a discutere il loro programma o regime di allenamento con uno specialista medico.
- Fermate lo E- UB / RB se avete dei capogiri o vi sentite svenire.
- Eseguite la manutenzione regolarmente.
- Esercitatevi lentamente fino a quando raggiungete un livello confortevole e sicuro.
- Usate questo E- UB / RB solo per l'uso inteso, come descritto in questo manuale.

### Da Non Fare

- Non permettete a bambini di usare lo E- UB / RB senza sorveglianza.
- Non usate lo E- UB / RB se non calzate scarpe da ginnastica.
- Non usatelo all'aperto quando piove o vicino ad una piscina coperta.
- Non lasciate cadere oggetti e non inserite mani o piedi nelle aperature o al di sotto di questo E- UB / RB.
- Non rimuovete nessun coperchio o modificate questo E- UB / RB.

## ATTENZIONE

Lo **STAR TRAC E- UB / RB** è stato progettato per l'esercizio aerobico in un ambiente commerciale o domestico.

Consultatevi con il vostro medico di famiglia prima di intraprendere un programma di esercizi.

Siate coscienti dei vostri limiti. Fermatevi se avete dei capogiri, vi sentite svenire o siete esausti. Usate il vostro buon senso quando usate lo cyclette. Leggete tutto il manuale delle istruzioni prima di usare lo E- UB / RB.

## MANTENGA QUESTE ISTRUZIONI

# INSTRUÇÕES DE SEGURANÇA IMPORTANTES

Estas observações de segurança destinam-se à você, proprietário da *STAR TRAC E- UB / RB*. Treine todos os membros e funcionários que utilizarão o equipamento para que sigam estas instruções de segurança.

## Faça

- Estimule seus usuários para que discutam seus programas de saúde ou de exercícios com um profissional de saúde.
- Pare de usar a E- UB / RB se você se sentir fraco ou com tontura.
- Faça manutenção preventiva regularmente.
- Faça o exercício lentamente até que você alcance um nível de conforto e segurança.
- Utilize este E- UB / RB única e exclusivamente para o seu devido fim, conforme descrito neste manual.

## Não Faça

- Não permita que crianças operem a E- UB / RB sem supervisão de um adulto.
- Não utilize a E- UB / RB sem calçar tênis.
- Não use este E- UB / RB ao ar livre, em dias chuvosos ou em um ambiente de piscina interna.
- Nunca deixe cair ou introduza nenhum objeto, as mãos ou pés em nenhuma abertura do E- UB / RB ou debaixo deste.
- Não remova nenhum protetor ou modifique este E- UB / RB.

## ADVERTÊNCIA

A sua *STAR TRAC E- UB / RB* foi projetada para exercício aeróbico em um ambiente comercial ou residencial.

Faça um exame físico com seu médico antes de iniciar qualquer programa de exercícios.

Não abuse. Para se estiver sentindo tontura, fraqueza ou exaustão. Use bom senso quando se exercitar. Leia o manual do proprietário por completo antes de operar a sua E- UB / RB.

## RETENHA ESTAS INSTRUÇÕES

# INSTRUCCIONES DE SEGURIDAD IMPORTANTES

Estas notas de seguridad van dirigidas a Vd. Como propietario del *STAR TRAC E- UB / RB*. Haga que todos los usuarios y preparadores físicos cumplan estas instrucciones de seguridad.

## Qué Hacer

- Anime a sus miembros a que discutan su programa de salud o régimen de ejercicio con un profesional de la salud.
- Detenga el escalón si se nota desfallecido o mareado.
- Realice un mantenimiento preventivo de manera regular.
- Haga ejercicio despacio hasta alcanzar un nivel de comodidad y seguridad.
- Utilice este E- UB / RB sólo para los usos indicados, tal como se describe en este manual.

## Qué No Hacer

- No permita que los niños utilicen el E- UB / RB sin supervisión.
- No permita su uso sin calzado deportivo.
- No lo utilice en el exterior con tiempo lluvioso o en un recinto cerrado con piscina.
- No deje caer ni introduzca ningún objeto, manos o pies en ninguna abertura del E- UB / RB o debajo del mismo.
- No quite ninguna cubierta ni modifique este E- UB / RB.

## ADVERTENCIA

Su *STAR TRAC E- UB / RB* está diseñado para realizar ejercicio aeróbico en un entorno comercial o en forma individual.

Consulte a su médico antes de empezar cualquier programa de ejercicio.

No se exceda. Interrumpa el ejercicio si se nota desfallecido, mareado o agotado. Utilice el sentido común al usar este ararato. Lea el manual del propietario en su totalidad antes de poner en marcha el escalón.

## GUARDE ESTAS INSTRUCCIONES

# VIKTIGA SÄKERHETSANVISNINGAR

Disse sikkerhedsinstruktioner henvendes til ejeren af **STAR TRAC E- UB / RB**. Sørg venligst for, at alle medlemmer og alt kondipersonale kender og følger disse sikkerhedsregler.

## Råd

- Medlemmer bør opfordres til at tale om deres helseprogram eller kondiregime med en læge.
- Stig af E- UB / RB, hvis du bliver mat i kroppen eller svimmel.
- Foretag forebyggende vedligeholdelse med regelmæssige mellemrum.
- Gør øvelserne langsomt, indtil du når et behageligt og sikkert niveau.
- Udstyret bør udelukkende bruges til det formål, det er beregnet til ifølge denne brugsanvisning.

## Advarsler

- Tillad ikke børn uden opsyn at bruge E- UB / RB.
- Brug ikke E- UB / RB uden kondisko.
- Brug ikke E- UB / RB udendørs i regnvejr eller i et indelukket område med svømmebassin.
- Undgå at tabe eller at stikke genstande, hænder eller fødder ind i en åbning i eller under udstyret.
- Undlad at fjerne afskærmning eller forandre udstyret på nogen måde.

## ADVARSEL

Din **STAR TRAC E- UB / RB** er konstrueret til konditræning i et erhvervseller forbrugermiljø.

Vær venlig at rådføre dig med din læge, før du påbegynder et kondiprogram.

Du må ikke overanstrenge dig alt for meget. Stop hvis du føler dig mat i kroppen, svimmel eller udmattet. Brug sund fornuft, når du cykler. Vær venlig at læse hele brugsanvisningen, før du stiger på E- UB / RB.

## UPPEHÄLLE DESSA ANVISNINGAR

### 注意事项

以下安全注意事项是专门为 **STAR TRAC E SERIES BIKE** 的拥有人而制订的。请务必训练所有设备使用者和健身房工作人员遵守这些安全注意事项。

要：鼓励所有使用者与专业医疗保健人员商讨他们的医疗保健方案或健身进程。使用 E SERIES BIKE 时若感觉到晕眩或虚弱，请立即停止使用。定期维护设备。锻炼要慢慢开始直至达到一个自如的程度。仅将 E SERIES BIKE 用作本使用手册所列的用途。

不要：不要让无人看管的儿童使用您的 E SERIES BIKE。没穿运动鞋时不要使用。下雨时不要在室外使用，也不要室内游泳池附近使用。E SERIES BIKE 的敞开部位或底下不要掉落或塞进任何附件，包括手或脚。不要尝试拆除任何覆盖物或改装您的 E SERIES BIKE。

### 警告

STAR TRAC E SERIES BIKE 是专门设计用于商业或消费用途的健身锻炼设备。

开始任何锻炼计划之前，请先与您的医生进行商讨。

不要过于勉强自己，如果感觉到虚弱，晕眩或疲倦就应停止运动。运用常识正确举步。

使用 E SERIES BIKE 前请先完整阅读使用手册。

如不遵从以上警告有可能会造成伤害或死亡。



## 注意事項

これらの安全に関する事項は、スタートラックEシリーズバイクの所有者に対し提供されている。安全のため、すべてのメンバーおよびフィットネスのスタッフが安全に関する指示に従うよう教育（指示）する事。

### スタートラックEシリーズバイク使用にあたってしなければならない項目

-ご利用の方に、健康維持のためのプログラムやフィットネス計画についてヘルスケアの専門家と話し合うことを勧める。 -めまいがしたり、めまいであると感じるならあなたのE SERIES BIKEの操作利用を中止する。 -定期的に予防保守を行うこと。 -快適さや安全性を感じるまで、ゆっくり運動を行うこと。 -スタートラックEシリーズバイクは本説明書に記載の意図された目的にのみ使用すること。

### スタートラックEシリーズバイク使用にあたってしなければならない項目

-子供がスタートラックEシリーズバイクを操作しないようにする。 -運動靴をはかないで使用しない。 -雨の天気のとくに野外や、またはプールのある屋内で、設置、使用しないこと。 -スタートラックEシリーズバイクは、シュラウド（本体カバー）が付いていない状態もしくは、機器を改造して利用しない。

## **警告**

スタートラックEシリーズバイクは、ジムやスポーツクラブ内で行う有酸素運動を目的に設計されている。運動のプログラムを開始する前にかかりつけの医師に相談すること。

やりすぎないこと。気が遠くなったり、ふらついたり、疲労が激しい場合は運動を中止する。

バイクを利用するときは、常識の範囲内で行うこと。

バイクを使用始める前に必ず取扱説明を読むこと。

# ASSEMBLY AND SETUP E-UB

## UNPACKING

**NOTE:** Do not remove the base from the shipping carton at this time.

Remove the top cover from the shipping carton. Remove all parts and shipping supports (except the base) from the carton, and verify that the following parts are included in your shipment:

Description	Qty	Description	Qty
Base	1	Washer, M8	4
Display Weldment	1	Bolt, Allen Head, M6 x 65	4
Neck Tube	1	Star Washer, M6	4
Seat Tube with Seat and Sleeve	1	Bolt, Allen Head M4 x 20	2
Bolt, Allen Head, M8 x 16 mm	4	Bolt, M6 x 10	1

This owner's manual and the warranty card are also included in the packaging.

**Note:** This manual covers installation of the LED display. If you ordered a PVS kit or an Embedded Display, please refer to the assembly and operating instructions included with those products for proper setup and operation of the display assembly.

## TOOLS REQUIRED

Your *STAR TRAC E-UB* can be assembled using the following tools:

- Metric Hex Key Wrenches
- Metric Open-End Wrenches
- Metric Ratchet Socket Wrench Set
- Torque Wrench
- Phillips Head Screwdriver

## ASSEMBLY

### 1. Unpack and Position the Base

Cut the long edge of the shipping carton base at both ends. Fold the flap down to make a ramp.

With the aid of a helper, lift the rear end of the base, and roll the base off of the shipping carton platform. Place the base on the floor in the location where the unit will be used. Be sure the chosen location is level.

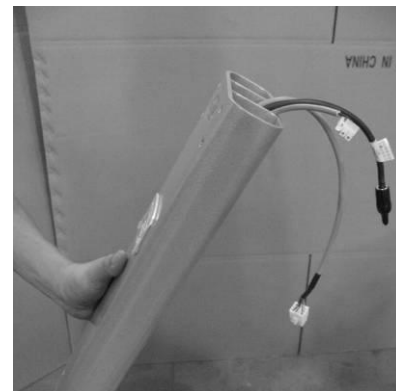


Step 1

### 2. Install the Neck Tube and Display Weldment

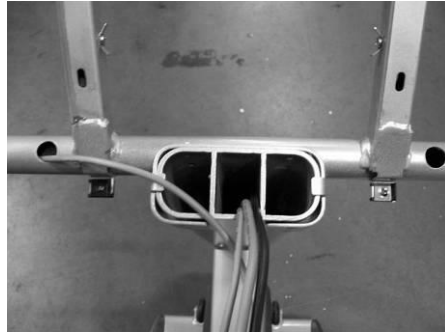
**NOTE:** You will need someone to assist you to install the display weldment. Have the person who is assisting you hold the display weldment while you route the display cables and connect the neck.

Have your helper hold the neck tube close to the base, route the main I/O cable, auxiliary power and coaxial cable up the full length of the display neck before seating the neck on the base. See Figure 2a. Secure the neck tube with 4 M8 allen head bolts and washers and torque of 9-11 lbs-ft.



Step 2a

Next, position the display weldment on the top of the neck tube and secure with the four M6 x 65 allen head bolts and four star washers. Take care to route the display cables through the opening in the display weldment. All cables should exit out the top of the neck tube as shown in the image below. Tighten the four bolts to a torque of 8-10 lbs-ft.



**Step 2b**

### 3. Install the Seat Post

While pulling the release knob out, slide the seat post into the frame until the threaded hole in the seat post is accessible through the external hole in the frame.

Install the M6 x 10 bolt through the opening in the frame and into the back of the seat post and tighten to a torque of 8-10 lbs-ft.



**Step 3a**

Secure the seat post sleeve to the frame with two M4 x 20 allen head bolts.

Check the seat post for proper operation by pulling on the seat post release knob and verifying that the seat post will slide up and down the full travel without difficulty.



**Step 3b**

**NOTE: THIS COMPLETES THE ASSEMBLY OF THE BASE FRAME, TO COMPLETE ASSEMBLY OF LED DISPLAY CONTINUE TO PAGE 15**

# ASSEMBLY AND SETUP E-RB

## UNPACKING

**NOTE:** Do not remove the base from the shipping carton at this time.

Remove the top cover from the shipping carton. Remove all parts and shipping supports (except the base) from the carton, and verify that the following parts are included in your shipment:

Description	Qty	Description	Qty
Base	1	Washer, M8	4
Display Weldment	1	Bolt, Allen Head, M6 x 65	4
Neck Tube	1	Star Washer, M6	4
Seat Assembly	1	Bolt, Allen Head M10 x 10	4
Bolt, Allen Head, M8 x 16 mm	4	Washer, M10	4
Handlebar Assembly	1		

This owners manual and the warranty card are also included in the packaging.

**Note:** This manual cover installation of the LED display. If you ordered a PVS kit or an Embedded Display, please refer to the assembly and operating instructions included with those products for proper setup and operation of the display assembly.

## TOOLS REQUIRED

Your *STAR TRAC E- RB* can be assembled using the following tools:

- Metric Hex Key Wrenches
- Metric Open-End Wrenches
- Metric Ratchet Socket Wrench Set
- Torque Wrench
- Phillips Head Screwdriver

## ASSEMBLY

### 1. Unpack and Position the Base

Cut the long edge of the shipping carton base at both ends. Fold the flap down to make a ramp.

With the aid of a helper, lift the rear end of the base, and roll the base off of the shipping carton platform. Place the base on the floor in the location where the unit will be used. Be sure the chosen location is level.



Step 1

## 2. Install the Display Weldment

**NOTE:** You will need someone to assist you to install the display weldment. Have the person who is assisting you hold the display weldment while you route the display cables and connect the neck.

Have your helper hold the neck tube close to the base, route the main I/O cable, auxiliary power and coaxial cable up the full length of the display neck then make sure the contact heart rate cable is clear before seating the neck on the base. See Figure 2a. Secure the neck tube with 4 M8 allen head bolts and washers and torque of 8-10 lbs-ft.



Step 2

## 3. Install Adjustable Heart Rate Bar

Locate the adjustable heart rate bar. Connect the cable from the hole in the neck tube to the cable from the adjustable heart rate bar.



Step 3a

Taking care to not pinch the cable assembly, mount the adjustable heart rate bar to the neck tube with four M6 x 25 mm allen bolts and four star washer. Tighten all four bolts to a torque of 8-10 lbs-ft.

Check the adjustable heart rate bar for proper operation by pressing the red button and sliding the heart rate bar back and forth to verify normal operation without difficulty.



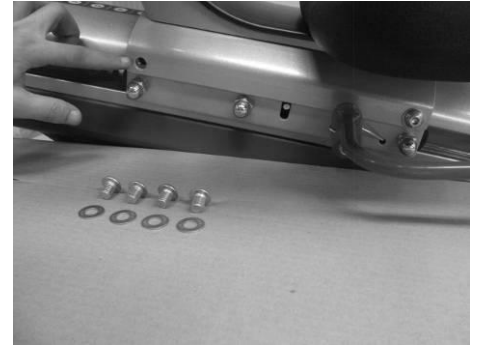
Step 3b

#### 4. Install the Seat Assembly

Carefully position the seat frame over the seat carriage on the bike frame, aligning the attachment holes in the sides of the seat frame with the holes in the seat carriage.

Using four M10 X 10 socket head screws and four washers, secure the seat frame to the seat carriage. Tighten all four screws securely to a torque of 18-20 lbs-ft.

Verify operation by lifting up the red lever and sliding the seat carriage from the front to the back. Verify the latch engages when the lever is released.



**Step 4**

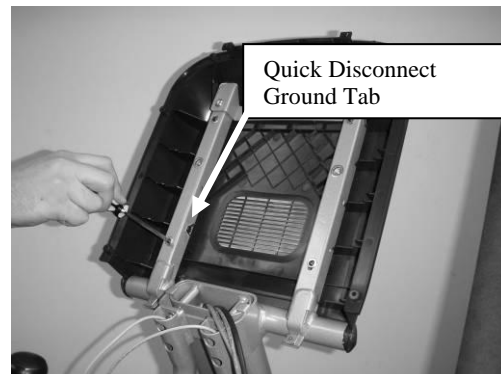
**NOTE: THIS COMPLETES THE ASSEMBLY OF THE BASE FRAME, TO COMPLETE ASSEMBLY OF LED DISPLAY CONTINUE ON PAGE 15**

# ASSEMBLY- LED DISPLAY

Your Star Trac Bike will be shipped with the display in a separate carton. This section covers the final assembly of the LED display. If you ordered a Personal Viewing System (PVS) or an embedded computer, please refer to the separate assembly instructions included with those products

## 1. Install the Rear Display Plastics

Open the separately packaged display and remove the M4 screws from the back plastics, set these aside for additional use. Attach the rear display cover to the display weldment with four M4 screws and four M4 washers included with the display.



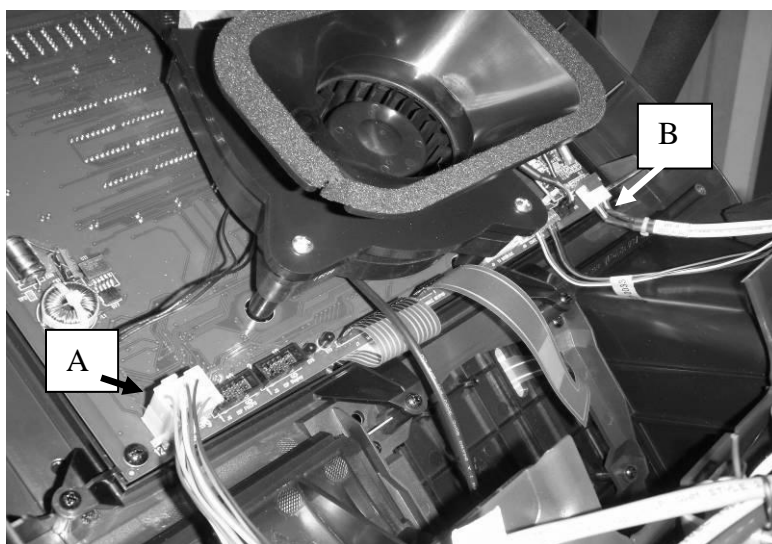
Step 1

## 2. Connecting the Display Assembly

Position the front half of the display plastic in front of the display weldment.

The following display connections will need to be made.

- A. Connect the main display cable with a white 9 pin connector to the J4 connector on the display PCB.
- B. Connect the contact heart rate cable to the heart rate board
- C. Ground wire from the heart rate board must be connected to the quick disconnect tab on the display weldment.
- D. Ground wire from the base frame should be connected to the 2<sup>nd</sup> quick disconnect tab on the display weldment.



**NOTE:** For the LED display the coax cable is not used and should be replaced into the main neck tube.

Step 2

## 3. Final Display Assembly

With the electrical connections made you can now attach the display. Next you will need to attach the front of the display to the weldment. First guide the bottom of the display under the front tabs of the weldment and then second you will need to pivot the display forward around the tabs to mate front display plastic to the rear plastic that is attached to the weldment.

Once in place attach the plastics with the M4 screws included with the display. There are 8 M8 screws that attach around the perimeter of the display, secure properly.



Step 3

## 4. Final Setup and System Check

Be sure all bolts and screws are tightened securely per the Owner's Manual.

Read this manual completely to be aware of all instructions and safety information before using the product for the first time.

To operate the unit, follow the instruction to adjust the seat to the proper height, mount the bike properly and slowly begin pedaling. The LED display should power up after the first few pedals and display instructions on how to begin your workout.

Move the unit to its final place of operation and check to see if the unit is level. If needed, use the four leveling feet to properly level the unit. To do this, rotate the adjusters until the unit is stabilized.

You have now completed the assembly of your Star Trac E- UB / RB.



# OPERATING INSTRUCTIONS

Operating the **STAR TRAC E SERIES BIKE** is very easy. Simply mount the bike, begin pedaling, and press **QUICK START**. Learning the features and incorporating the **STAR TRAC E SERIES BIKE** into your members' fitness programs is just as easy. In this chapter, you will learn the display function and how to get the most out of every **STAR TRAC E SERIES BIKE** workout.

**IMPORTANT:** Before operating the bike, you must be familiar with the following equipment limitations:

- **Maximum Weight:** Your **STAR TRAC E SERIES BIKE** is designed for a maximum user weight of 350 lbs/159 kg. **DO NOT** exceed the maximum user weight.

## SEAT ADJUSTMENTS

Proper seat positioning helps ensure maximum exercise efficiency and comfort, while reducing the risk of injury. Always adjust the seat position prior to beginning your workout.

**IMPORTANT:** When adjusting the seat height for either bike, your knee should never completely “lock out” during any portion of the cycle pattern.

### **Adjusting Seat Height (E-UB Upright Bike)**

When sitting on the seat of your E-UB Upright Bike, your knees should be almost fully extended when the pedals are at the lowest point of their rotation. To adjust the seat height:

**NOTE:** When raising the seat, the seat will ratchet up when pulled. When lowering the seat, you must use the seat release knob.

With the pedal at its lowest point of rotation, stand on the pedal with your knee slightly bent. To raise the seat, carefully lift up on the “nose” of the saddle and raise the seat to the desired position (the seat release knob does not need to be pulled out). To lower the seat, carefully pull out on the seat release knob (located at the rear of the seat tube) and lower the seat to the desired position. Release the knob, ensuring that the spring retracts to its original position, and that the seat stays firmly in place.

Note your height adjustment (shown on the front of the seat post) for future reference. This number is the highest number visible on the seat post.



### **Adjusting Seat Position (E-RB Recumbent Bike)**

When sitting on the seat of your E-RB Recumbent Bike, your knees should be almost fully extended when the pedals are at the lowest point of their rotation. To adjust the seat position:

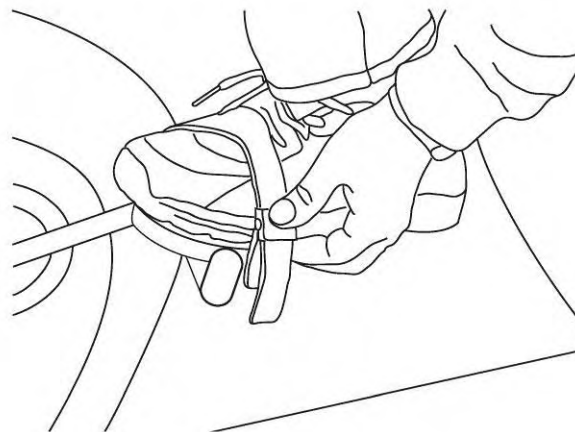
Sit on the seat and grasp the seat adjustment handle (located under the seat). Lift up on the handle, and slide the seat forward or backward on the seat carriage to the closest available position that allows your knees to be slightly bent toward the lower pedal. Release the handle, ensuring that the spring retracts to its original position, and that the seat stays firmly in place.

Note your height adjustment (shown on the top of the seat rail either in front of or behind the seat) for future reference.



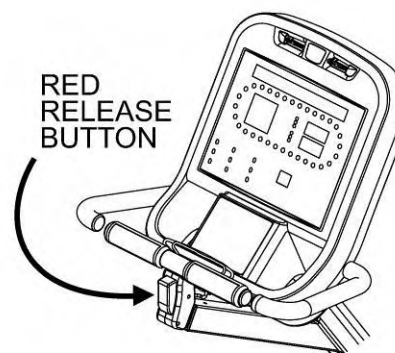
## PEDAL STRAP OPERATION

The pedal straps should be adjusted to hold each foot comfortably but firmly on the pedal. Place your foot on the pedal, then adjust the pedal strap as necessary. Pull the free end of the strap down to tighten. Press the release button to loosen.



## HEART RATE BAR OPERATION (E-RB RECUMBENT BIKE)

After adjusting the seat to a comfortable riding position, grasp the heart rate grip and press the red release button with your thumb. Pull the heart rate bar out to a comfortable position, and release the button. BE SURE to return the heart rate bar to its original position before dismounting the bike.



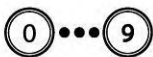
## DISPLAY PANEL FEATURES

Your Star Trac E SERIES BIKE is equipped to provide you and your users unlimited exercise opportunities. Experiment with its features to find the right combination for your fitness regimen. The Display panel provides the operating controls and display elements described in the following paragraphs, and is consistent for both the E-UB Upright and E-RB Recumbent bikes.



**QUICK START Key:** Enables the bike for manual operation using a default weight of 155 pounds, a default LEVEL of "1", and a default time limit of 99 minutes.

**NOTE:** Default time and weight are adjustable through Manager/Maintenance mode. See Chapter 7 for details.



**Numeric Keypad:** Allows you to enter specific values for program parameters during program setup. During a program, these keys may be used to change difficulty level.



**OK Key:** (part of numeric keypad) Allows you to confirm selections during program setup and operation.



**ARROW Key:** (part of numeric keypad) Allows you to make corrections to values entered during program setup.



**Increase LEVEL Key:** Increases the difficulty level from **1** (least difficulty) to **20** (greatest difficulty), in one-level increments. Current level setting is shown in the LEVEL display window.



**Decrease LEVEL Key:** Decreases the difficulty level from **20** (greatest difficulty) to **1** (least difficulty), in one-level increments. Current level setting is shown in the LEVEL display window.

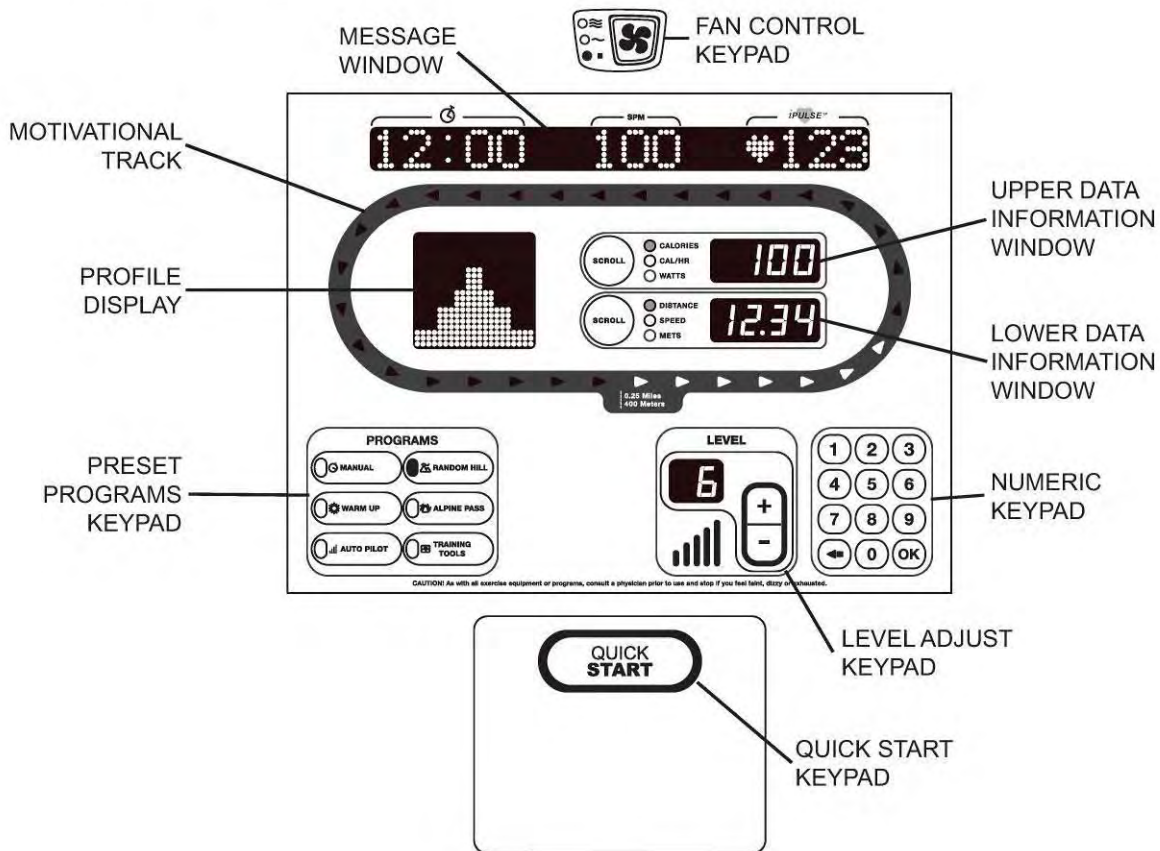


**Fan Key:** Allows you to control the speed of the personal cooling fan, either OFF, HIGH or LOW.



**SCROLL Keys:** Scrolls the upper and lower data information windows between the three available data displays.

**Preset Program Keys:** Allow you to access a desired preset workout program.



**Upper Data Information Window:** Shows current and aggregate data related to your workout. Pressing the associated SCROLL key scrolls between the following displays:

- CALORIES - Shows your aggregate caloric expenditure thus far in your workout.
- CAL/HR - Shows your average caloric expenditure per hour thus far in your workout.
- WATTS - Shows your aggregate watts expenditure thus far in your workout.

**Lower Data Information Window:** Shows current and aggregate data related to your workout. Pressing the associated SCROLL key scrolls between the following displays:

- DISTANCE - Shows the total number of miles or kilometers you have ridden thus far.
- SPEED - Shows the speed at which you are currently pedaling, in miles-per-hour or kilometers-per-hour.
- METS - Shows your aggregate METS expenditure thus far in your workout.

**Profile Display:** Traces your progress through each of the programs and allows you to anticipate changes in terrain. Display elements illuminate from left to right across the bottom of the display to indicate your progress through the course. At each step, display elements illuminate in columns to indicate your ascent up the gradient that is in effect.

**Motivational Track:** Shows your progress counter clockwise around 1/4-mile (400-meter) course, starting from the bottom center.

**Message Window:** Provides informational messages, prompts during program setup, feedback during your workout, notification when your workout is complete, and scrolling summarized workout data after your workout. During your workout, the Information Window shows the following data:

- TIME - Shows the duration of your workout thus far in minutes and seconds.
- RPM - Shows the current speed at which you are pedaling in revolutions-per-minute.

- **HEART RATE** - Shows your current heart rate in beats-per-minute (BPM) while wearing the heart rate strap or grasping the heart rate grips.

Depending on the program completed and bike settings as set in Manager/Maintenance mode, workout data may include:

## HINTS AND TIPS FOR GETTING STARTED

The following hints and tips will assist in training your users to maximize the fitness benefits of your STAR TRAC E SERIES BIKE.

- **Pedal at a rate that feels comfortable and most natural, yet is sufficiently vigorous to get a good cardio workout.**
  - **Try different pedaling rhythms.** In manual operation, vary your pedaling speed from slow to fast, then back to slow. As you
- |   |                                      |
|---|--------------------------------------|
| ■ Time consumed                           | ■ Average minutes per mile/kilometer |
| ■ Calories expended                       | ■ Average RPM                        |
| ■ Distance traveled - miles or kilometers | ■ Average watts                      |
| ■ Average speed - mph or kph              | ■ Average METS                       |
| ■ Average calories expended per hour      | ■ Average heart rate                 |

become more comfortable with your bike, try pedaling faster, varying the resistance LEVEL, or using the preset programs.

- **Watch the Graphic Display to anticipate terrain changes.** When you use the preset programs, the display shows changes in terrain as tall or short columns.

## VIEWING WORKOUT DATA DURING A PROGRAM

Workout data is shown in three windows on the E SERIES BIKE Display Panel: the Message Window (located at the top of the Display Panel) and the Upper and Lower Data Information Windows (located inside the Motivational Track, to the right of the Profile Window).

Information shown in the Message Window during a workout includes elapsed time, revolutions per minute (RPM's), and heart rate (HR), when in use. After the workout is complete, workout summary information is shown in the Message Window.

The Message Window also displays important instructions and cues throughout the workout.

The Upper and Lower Data Information Windows also display information during a workout.

### To view workout data during your workout:





1. Press the Upper Data Display Window SCROLL key to view the following workout data (the current data display is indicated by an LED next to the parameter name):
  - CALORIES - Shows your aggregate caloric expenditure thus far in your workout.
  - CAL/HR - Shows your average caloric expenditure per hour thus far in your workout.
  - WATTS - Shows your current watts expenditure during that specific time of the workout.
2. Press the Lower Data Display Window SCROLL key to view the following workout data (the current data display is indicated by an LED next to the parameter name):
  - DISTANCE - Shows the total number of miles or kilometers you have ridden thus far.
  - SPEED - Shows the speed at which you are currently pedaling, in miles-per-hour or kilometers-per-hour.
  - METS - Shows your current METS expenditure during that specific time of the workout.

## COOLDOWN CYCLE


In most programs, once you have completed your workout, the bike enters a two-minute Cooldown cycle.

**NOTE:** The E SERIES BIKE software is programmed to properly decrease pedaling resistance to provide a cooldown.

### To operate the bike during Cooldown:

1. You can adjust the difficulty LEVEL during Cooldown.
  - Use the ... keys to enter a difficulty LEVEL (from 1 to 20); or press the  or  key, as desired, to increase or decrease the difficulty level."/>


decrease the difficulty LEVEL in 1 unit increments.

- When the desired difficulty LEVEL has been entered, press the  key to accept the displayed LEVEL.
2. When the Cooldown cycle ends, your workout summary displays in the Information Window. If you wish to exit the Cooldown cycle before it ends automatically, stop pedaling.

## USING THE PERSONAL FAN

The **STAR TRAC E SERIES BIKE** is equipped with a built-in personal fan to increase your comfort during a workout. you can control the fan speed during your workout.

**To operate the personal fan:**

- Press the  key, as necessary, to cycle the personal fan from OFF to HIGH to LOW to OFF. An LED indicator lights to show the currently selected fan speed.
- The fan remains set at the set speed if you pause your program.
- The fan turns off automatically if you exit your workout, or when you complete your workout program.

## HEART RATE MONITORING


Heart rate monitoring allows you to determine if your workout is too challenging or not challenging enough. Monitoring heart rate is easy with the **STAR TRAC E SERIES BIKE**. You may use a heart rate strap (not provided with the E SERIES BIKE), or you can simply grasp the silver contact heart rate grips.

**NOTE:** The Heart Rate monitor is not a medical test, nor is it designed as a medical test. It is simply a guide to target heart rate training. Please consult with your physician prior to engaging in any strenuous physical activity.

**IMPORTANT:** The manufacturer does not warrant the heart rate system **performance** on this product, as the heart rate system performance varies, based on a user's physiology, fitness level, age, method of use and other factors. Furthermore, the heart rate system is not for medical use.

## CONTACT HEART RATE MONITORING


You may use the heart rate contact grips to automatically check your heart rate. Just follow these steps.

1. Grasp the stainless steel heart rate contact grips; you do not have to squeeze tightly.
2. It may take from 30 to 60 seconds for the heart rate system to acquire and display your heart rate.
3. When your heart rate has been acquired, the  indicator, and your heart rate in beats per minute (BPM) displays in the HEART RATE field of the Information Window.
4. Release the Heart Rate grips if you wish to remove your heart rate reading from the display.

## CHEST STRAP HEART RATE MONITORING

You may use the heart rate strap to automatically check your heart rate. Just follow these steps:

1. Before beginning your workout, or during a pause, moisten the back of the transmitter on the heart rate strap (not included). Place the strap snugly around your chest with the transmitter resting directly over your sternum.







2. When your heart rate has been acquired, the  indicator and your heart rate in beats per minute (BPM) display in the HEART RATE field of the Information Window.
3. Remove the heart rate strap, if you wish to remove your heart rate reading from the display.

**NOTE:** The performance of the transmitter may be affected by body types, body oils, metal in clothing, and outside electrical interference. Always be sure that the transmitter and skin are in good contact. Avoid operating other electrical equipment near your treadmill when you use the heart rate strap.

## QUICK START

Quick Start lets you begin your workout by simply pressing one key, or by pedaling for approximately 10 seconds without pressing any key. Quick Start uses a default weight of 155 pounds (70 kg), a difficulty LEVEL of 1, and a time limit of 99 minutes. YOU control resistance LEVEL during the entire program.

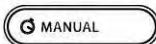

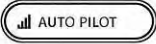



### To operate the Quick Start program:

1. Mount the bike (please refer to “SEAT ADJUSTMENTS” section), begin pedaling, and press the QUICK START key.
2. If desired, you can use the personal fan during your workout (see “Using the Personal Fan” for details).
3. You can adjust the resistance LEVEL during the program, using either of the following methods.
  - Use the ... keys to enter a resistance level (from 1 to 20). When the desired level has been entered, press the  key to confirm the resistance level.
  - Press the  or  key, as desired, to increase or decrease the resistance LEVEL in 1 unit increments.
4. You can scroll through workout data during the program (see “Viewing Workout Data During a Program” for details).
5. If you wish to pause the program, stop pedaling. The bike will enter pause mode and display your workout results for one entire cycle.
6. When you have reached your workout goal, the bike enters the Cooldown cycle (see “Cooldown Cycle” for details). If you wish to exit the program before you have reached your workout goal, stop pedaling and allow the Pause timer to expire. If you wish to skip the Cooldown cycle, press the  key to view your workout summary.

## PRESET PROGRAMS

The **STAR TRAC E SERIES BIKES** offer 10 preset programs to add variety and challenge to your workout, including the advanced TRAINING TOOLS function that provides four cardio-intensive training programs and a Fitness Test.

















Pre-set programs include:

-  **MANUAL** Allows the user to pre-program a time goal and user weight. Resistance is determined by the user during the program.
-  **WARM UP** Seven-minute program with three resistance level settings designed to properly warm-up the muscles prior to working out.
-  **AUTO PILOT** Allows the user to positively increase the level of resistance by increasing pedaling speed (rpm's). No keys to press with this one!
-  **RANDOM HILL** 200 varied hill programs that allow the user to pre-program a time goal, user weight and program level (from 1 to 20).
-  **ALPINE PASS** An intense 3-peak ride that allows the user to pre-program a time goal, user weight and program level (from 1 to 20).
-  **TRAINING TOOLS** Our advanced program that offers the user the ability to train in specific HR zones or watt ranges, or to complete the integrated Fitness Test.

## WARM UP PROGRAM

The WARM UP program provides a seven-minute program with three resistance level settings designed to properly warm-up the muscles prior to working out.







### To operate the WARM UP program:

1. Mount the bike (please refer to “SEAT ADJUSTMENTS” section), begin pedaling, and press the  key.
2. You are prompted to enter your weight. The bike displays a default weight of 155 pounds (70 kg). You may enter any weight from 0 to 350 pounds (0 to 159 kg).
  - Use the ... keys to enter your current weight; or press the  or  key, as necessary, to increase or decrease the displayed weight in 1 pound (or 1 kg) increments.
  - When your correct weight has been entered, press the  key to accept the displayed value.
3. You are prompted to enter a difficulty LEVEL.
  - Use the ... keys to enter a difficulty level (1 = beginners to working out, 2 = intermediate-level users, 3 = advanced users) or press the  or  key, as desired, to increase or decrease the difficulty LEVEL in 1 unit increments.
  - When the desired difficulty LEVEL has been entered, press the  key to accept the displayed LEVEL.
4. If desired, you can use the personal fan during your workout (see “Using the Personal Fan” for details).
5. You can adjust the resistance LEVEL during the program, using either of the following methods:
  - Use the ... keys to enter a resistance level (from 1 to 20). When the desired level has been entered, press the  key to confirm the resistance level.
  - Press the  or  key, as desired, to increase or decrease the resistance LEVEL in 1 unit increments.
6. You can scroll through workout data during the program (see “Viewing Workout Data During a Program” for details).
7. If you wish to pause the program, stop pedaling. The bike will enter pause mode and display your workout results for one entire cycle.
8. When you have reached your workout goal, the bike provides a Workout Summary.











## MANUAL PROGRAM

The MANUAL program allows the user to pre-program a time goal and user weight. Resistance is determined by the user during the program.

### To operate the MANUAL program:

1. Mount the bike (please refer to “SEAT ADJUSTMENTS” section), begin pedaling, and press the  key.
2. You are prompted to enter your weight. The bike displays a default weight of 155 pounds (70 kg). You may enter any weight from 0 to 350 pounds (0 to 159 kg).
  - Use the ... keys to enter your current weight; or press the  or  key, as necessary, to increase or decrease the displayed weight in 1 pound (or 1 kg) increments.
  - When your correct weight has been entered, press the  key to accept the displayed value.
3. You are prompted to enter a time goal.

The default time is 20 minutes. You may enter any time from 1 to 99 minutes.

  - Use the ... keys to enter your desired time goal; or press the  or  key, as necessary, to increase or decrease the displayed value in 1 minute increments.
  - When your desired goal has been entered, press the  key to accept the displayed value.
4. You are prompted to enter a difficulty LEVEL.
  - Use the ... keys to enter a difficulty level (from 1 to 20) or press the  or  key, as desired, to increase or decrease the difficulty LEVEL in 1 unit increments.
  - When the desired difficulty LEVEL has been entered, press the  key to accept the displayed LEVEL.
5. If desired, you can use the personal fan during your workout (see “Using the Personal Fan” for details).

6. You can adjust the resistance LEVEL during the program, using either of the following methods:
  - Use the keys to enter a resistance level (from 1 to 20). When the desired level has been entered, press the key to confirm the resistance level.
  - Press the or key, as desired, to increase or decrease the resistance LEVEL in 1 unit increments.
7. You can scroll through workout data during the program (see “Viewing Workout Data During a Program” for details).
8. If you wish to pause the program, stop pedaling. The bike will enter pause mode and display your workout results for one entire cycle.
9. When you have reached your workout goal, the bike enters the Cooldown cycle (see “Cooldown Cycle” for details). If you wish to exit the program before you have reached your workout goal, stop pedaling and allow the Pause timer to expire.

## AUTO PILOT PROGRAM

The AUTO PILOT program allows the user to positively increase the level of resistance by increasing pedaling speed (rpm's). No keys to press with this one!

### To operate the AUTO PILOT program:

1. Mount the bike (please refer to “SEAT ADJUSTMENTS” section), begin pedaling, and press the key.
2. If desired, you can use the personal fan during your workout (see “Using the Personal Fan” for details).
3. You can increase the resistance LEVEL during the program by increasing your pedaling speed. Decreasing your pedaling speed will lower the resistance LEVEL.
4. You can scroll through workout data during the program (see “Viewing Workout Data During a Program” for details).
5. If you wish to pause the program, stop pedaling. The bike will enter pause mode and display your workout results for one entire cycle.
6. When you have reached your workout goal, the bike enters the Cooldown cycle (see “Cooldown Cycle” for details). If you wish to exit the program before you have reached your workout goal, stop pedaling and allow the Pause timer to expire.

## RANDOM HILL / ALPINE PASS PROGRAMS

The RANDOM HILL program offers 200 varied hill programs that allow the user to pre-program a time goal, user weight and program level (from 1 to 20). The ALPINE PASS program is an intense 3-peak ride that allows the user to pre-program a time goal, user weight and program level (from 1 to 20).

### To operate the RANDOM HILL or ALPINE PASS program:

1. Mount the bike (please refer to “SEAT ADJUSTMENTS” section), begin pedaling, and press the or key, as desired.
2. You are prompted to enter your weight. The bike displays a default weight of 155 pounds (70 kg). You may enter any weight from 0 to 350 pounds (0 to 159 kg).
  - Use the keys to enter your current weight; or press the or key, as necessary, to increase or decrease the displayed weight in 1 pound (or 1 kg) increments.
  - When your correct weight has been entered, press the key to accept the displayed value.
3. You are prompted to enter a time goal. The bike displays a default time of 20 minutes. You may enter any time from 5 to 99 minutes.
  - Use the keys to enter the desired time goal, or press the or key, as necessary, to increase or decrease the displayed value in 1 minute increments.
  - When your desired time goal has been entered, press the key to accept the displayed value.
4. You are prompted to enter a difficulty LEVEL.
  - Use the keys to enter a difficulty level (from 1 to 20) or press the or key, as desired, to increase or decrease the difficulty LEVEL in 1 unit increments.
  - When the desired difficulty LEVEL has been entered, press the key to accept the displayed LEVEL.
5. If desired, you can use the personal fan during your workout (see “Using the Personal Fan” for details).
6. You can adjust the resistance LEVEL during the program, using either of the following methods:



- Use the  $\odot \dots \ominus$  keys to enter a resistance level (from 1 to 20). When the desired level has been entered, press the  $\odot$  key to confirm the resistance level.
  - Press the  $\triangle$  or  $\nabla$  key, as desired, to increase or decrease the resistance LEVEL in 1 unit increments.
7. You can scroll through workout data during the program (see “Viewing Workout Data During a Program” for details).
  8. If you wish to pause the program, stop pedaling. The bike will enter pause mode and display your workout results for one entire cycle.
  9. When you have reached your workout goal, the bike enters the Cooldown cycle (see “Cooldown Cycle” for details). If you wish to exit the program before you have reached your workout goal, stop pedaling and allow the Pause timer to expire.

## TRAINING TOOLS PROGRAMS

The TRAINING TOOLS programs include the HEART RATE CONTROL and WATTS CONTROL programs, and the FIT TEST program. When using the HEART RATE CONTROL programs, use of the heart rate strap (rather than the heart rate grips) is recommended.

## HEART RATE CONTROL PROGRAMS

TRAINING TOOLS offers both a Dynamic Heart Rate Control program and a Constant Heart Rate Control program.

**NOTE:** For best results, use a heart rate strap. If user is wearing a heart rate strap, the bike will automatically use the data from the heart rate strap.

### To operate the Dynamic Heart Rate Control program:

This heart rate feature is designed to gradually elevate your heart rate to the upper end of your selected training range, then gradually decrease your heart rate to the lower end of your selected training range by dynamically controlling pedaling resistance. During the workout, this cycle will repeat several times until the time goal is complete, creating an interval training effect that is customized to the user's desired heart rate training range.

During program setup, there must be at least an 18 BPM difference between the lower heart rate limit and upper heart rate limit to ensure an interval workout.

By including interval exercise in your regular aerobic program, greater effects are noticed. Your heart and muscles will adapt to the increases in demand by utilizing stored calories for energy more effectively. Dynamic Heart Rate Control may potentially result in more calories expended. It will strengthen the heart, provide stress relief and variety to a workout. This program is more effective in training the body to remove excess lactic acid from the muscles.



To calculate your training zone, use the following formulas:  
(theoretical max HR = 220 - Age)

#### Heart Rate Training Range Upper Level

















$$\frac{\text{Your Theoretical Max}}{\text{Training Range Upper Limit}} \times 0.75 =$$

#### Heart Rate Training Range Lower Level

$$\frac{\text{Your Theoretical Max}}{\text{Training Range Lower Limit}} \times 0.60 =$$























**NOTE:** Calculating your theoretical maximum heart rate using age is an approximation. For more information, please contact a fitness professional or doctor.

1. Mount the bike (please refer to “SEAT ADJUSTMENTS” section), begin pedaling, and press the  $\text{TT TRAINING TOOLS}$  key.
2. You are prompted to select the desired TRAINING TOOLS program. Press the  $\odot$  key to select the Heart Rate Control program, then press the  $\odot$  key when prompted to select Interval Heart Rate Control.
3. You are prompted to enter your weight. The bike displays a default weight of 155 pounds (70 kg). You may enter any weight from 0 to 350 pounds (0 to 159 kg).
  - Use the  $\odot \dots \ominus$  keys to enter your current weight; or press the  $\triangle$  or  $\nabla$  key, as necessary, to increase or decrease the displayed weight in 1 pound (or 1 kg) increments.
  - When your correct weight has been entered, press the  $\odot$  key to accept the displayed value.
4. You are prompted to enter a time goal. The bike displays a default time of 20 minutes. You may enter any time from 5 to 99 minutes.
  - Use the  $\odot \dots \ominus$  keys to enter the desired time goal, or press the  $\triangle$  or  $\nabla$  key, as necessary, to increase or decrease the displayed value in 1 minute increments.

- When your desired time goal has been entered, press the  key to accept the displayed value.
5. You are prompted to enter your age.
    - Use the ... keys to enter your age, or press the  or  key, as necessary, to increase or decrease the displayed value in 1 year increments.
    - When your correct age has been entered, press the  key to accept the displayed value.
  6. You are prompted to enter an upper heart rate limit. The bike displays a default upper heart rate limit that is based on 80% of your theoretical maximum heart rate (220 BPM - age). You may enter any value from \_\_\_ to \_\_\_ BPM.
    - Use the ... keys to enter an upper heart rate limit, or press the  or  key, as desired, to increase or decrease the heart rate limit in 1 BPM increments.
    - When the desired upper heart rate limit has been entered, press the  key to accept the displayed value.
  7. You are prompted to enter a lower heart rate limit. The bike displays a default lower heart rate limit that is based on 60% of your theoretical maximum heart rate (220 BPM - age). You may enter any value from \_\_\_ to \_\_\_ BPM.
    - Use the ... keys to enter a lower heart rate limit, or press the  or  key, as desired, to increase or decrease the heart rate limit in 1 BPM increments.
    - When the desired lower heart rate limit has been entered, press the  key to accept the displayed value.
  8. If desired, you can use the personal fan during your workout (see “Using the Personal Fan” for details).
  9. You can scroll through workout data during the program (see “Viewing Workout Data During a Program” for details).
  10. If you wish to pause the program, stop pedaling. The bike will enter pause mode and display your workout results for one entire cycle.
  11. When you have reached your workout goal, the bike enters the Cooldown cycle (see “Cooldown Cycle” for details). If you wish to exit the program before you have reached your workout goal, stop pedaling and allow the Pause timer to expire.

#### To operate the Constant Heart Rate Control program:

This heart rate feature is designed to maintain your heart rate at a constant level by controlling pedaling resistance and prompting you to pedal at a specified RPM. Please note that your heart rate may vary above and below your target heart rate during this program.

1. Mount the bike (please refer to “SEAT ADJUSTMENTS” section), begin pedaling, and press the  key.
2. You are prompted to select the desired TRAINING TOOLS program. Press the  key to select the Heart Rate Control program, then press the  key when prompted to select Constant Heart Rate Control.
3. You are prompted to enter your weight. The bike displays a default weight of 155 pounds (70 kg). You may enter any weight from 0 to 350 pounds (0 to 159 kg).
  - Use the ... keys to enter your current weight; or press the  or  key, as necessary, to increase or decrease the displayed weight in 1 pound (or 1 kg) increments.
  - When your correct weight has been entered, press the  key to accept the displayed value.
4. You are prompted to enter a time goal. The bike displays a default time of 20 minutes. You may enter any time from 5 to 99 minutes.
  - Use the ... keys to enter the desired time goal, or press the  or  key, as necessary, to increase or decrease the displayed value in 1 minute increments.
  - When your desired time goal has been entered, press the  key to accept the displayed value.
5. You are prompted to enter your age.
  - Use the ... keys to enter your age, or press the  or  key, as necessary, to increase or decrease the displayed value in 1 year increments.
  - When your correct age has been entered, press the  key to accept the displayed value.
6. You are prompted to enter a target heart rate. The bike displays a default target heart rate that is based on 70% of your theoretical maximum heart rate (220 BPM - age). You may enter any value from \_\_\_ to \_\_\_ BPM.
  - Use the ... keys to enter your target heart rate, or press the  or  key, as desired, to increase or decrease the target heart rate in 1 BPM increments.

- When the desired target heart rate has been entered, press the **OK** key to accept the displayed value.
- 7. If desired, you can use the personal fan during your workout (see “Using the Personal Fan” for details).
- 8. You can scroll through workout data during the program (see “Viewing Workout Data During a Program” for details).
- 9. If you wish to pause the program, stop pedaling. The bike will enter pause mode and display your workout results for one entire cycle.
- 10. When you have reached your workout goal, the bike enters the Cooldown cycle (see “Cooldown Cycle” for details). If you wish to exit the program before you have reached your workout goal, stop pedaling and allow the Pause timer to expire.

## WATTS PROGRAMS

TRAINING TOOLS offers both a Dynamic Watts Interval program and a Constant Watts program. Watts are a measurement of workload that are dependant upon the resistance of the bike and the user’s RPM.

### To operate the Watts Interval program:
























This feature is designed to alternate your watts expenditure to the upper end of your selected training range, then gradually decrease it to the lower end of your selected training range by dynamically controlling pedaling resistance and prompting you to pedal at a specified RPM. During the workout, this cycle will repeat several times, creating an interval training effect that is customized to the user’s desired watts training range.

1. Mount the bike (please refer to “SEAT ADJUSTMENTS” section), begin pedaling, and press the **TRAINING TOOLS** key.
2. You are prompted to select the desired TRAINING TOOLS program. Press the **2** key to select the Watts program, then press the **1** key when prompted to select Watts Interval.
3. You are prompted to enter your weight. The bike displays a default weight of 155 pounds (70 kg). You may enter any weight from 0 to 350 pounds (0 to 159 kg).
  - Use the **0-9** keys to enter your current weight; or press the **▲** or **▼** key, as necessary, to increase or decrease the displayed weight in 1 pound (or 1 kg) increments.
  - When your correct weight has been entered, press the **OK** key to accept the displayed value.
4. You are prompted to enter a time goal. The bike displays a default time of 20 minutes. You may enter any time from 5 to 99 minutes.
  - Use the **0-9** keys to enter the desired time goal, or press the **▲** or **▼** key, as necessary, to increase or decrease the displayed value in 1 minute increments.
  - When your desired time goal has been entered, press the **OK** key to accept the displayed value.
5. You are prompted to enter your age.
  - Use the **0-9** keys to enter your age, or press the **▲** or **▼** key, as necessary, to increase or decrease the displayed value in 1 year increments.
  - When your correct age has been entered, press the **OK** key to accept the displayed value.
6. You are prompted to enter an upper watts limit. The bike displays a default upper watts limit of 300 watts. You may enter any value from 50 to 600 watts.
  - Use the **0-9** keys to enter an upper watts limit, or press the **▲** or **▼** key, as desired, to increase or decrease the watts limit in 1 watt increments.
  - When the desired upper heart rate limit has been entered, press the **OK** key to accept the displayed value.
7. You are prompted to enter a lower watts limit. The bike displays a default lower watts limit of 200 watts. You may enter any value from 50 to 600 watts.
  - Use the **0-9** keys to enter a lower watts limit, or press the **▲** or **▼** key, as desired, to increase or decrease the watts limit in 1 watt increments.
  - When the desired lower watts limit has been entered, press the **OK** key to accept the displayed value.
8. If desired, you can use the personal fan during your workout (see “Using the Personal Fan” for details).
9. You can scroll through workout data during the program (see “Viewing Workout Data During a Program” for details).
10. If you wish to pause the program, stop pedaling. The bike will enter pause mode and display your workout results for one entire cycle.

11. When you have reached your workout goal, the bike enters the Cooldown cycle (see “Cooldown Cycle” for details). If you wish to exit the program before you have reached your workout goal, stop pedaling and allow the Pause timer to expire.

### To operate the Constant Watts program:

This feature is designed to maintain your watts expenditure at a constant level by controlling pedaling resistance and prompting you to pedal at a specified RPM. Please note that your watts level may vary above and below your target watts level during this program.

1. Mount the bike (please refer to “SEAT ADJUSTMENTS” section), begin pedaling, and press the  key.
2. You are prompted to select the desired TRAINING TOOLS program. Press the  key to select the Watts program, then press the  key when prompted to select Constant Watts.
3. You are prompted to enter your weight. The bike displays a default weight of 155 pounds (70 kg). You may enter any weight from 0 to 350 pounds (0 to 159 kg).
  - Use the ... keys to enter your current weight; or press the  or  key, as necessary, to increase or decrease the displayed weight in 1 pound (or 1 kg) increments.
  - When your correct weight has been entered, press the  key to accept the displayed value.
4. You are prompted to enter a time goal. The bike displays a default time of 20 minutes. You may enter any time from 5 to 99 minutes.
  - Use the ... keys to enter the desired time goal, or press the  or  key, as necessary, to increase or decrease the displayed value in 1 minute increments.
  - When your desired time goal has been entered, press the  key to accept the displayed value.
5. You are prompted to enter your age.
  - Use the ... keys to enter your age, or press the  or  key, as necessary, to increase or decrease the displayed value in 1 year increments.
  - When your correct age has been entered, press the  key to accept the displayed value.
6. You are prompted to enter a watts rate. The bike displays a default wattage based on your entered age. You may enter any value from 50 to 600 watts.
  - Use the ... keys to enter your target watts rate, or press the  or  key, as desired, to increase or decrease the target watts rate in 1 watt increments.
  - When the desired target watts rate has been entered, press the  key to accept the displayed value.
7. If desired, you can use the personal cooling fan during your workout (see “Using the Cooling Fan” for details).
8. You can scroll through workout data during the program (see “Viewing Workout Data During a Program” for details).
9. If you wish to pause the program, stop pedaling. The bike will enter pause mode and display your workout results for one entire cycle.
10. When you have reached your workout goal, the bike enters the Cooldown cycle (see “Cooldown Cycle” for details). If you wish to exit the program before you have reached your workout goal, stop pedaling and allow the bike to enter the Workout Summary Mode.

## FITNESS TEST

The Fitness Test performs a single-stage, sub-maximal protocol, and calculates the results using the Astrand-Rhyming nomogram. The Fitness Test requires 6~7 minutes to complete. During the Fitness Test, you will be required to pedal at a constant 60 revolutions per minute (RPM). You can view your RPM's in the RPM field in the center of the Message Window (located at the top of the Display Panel).

**NOTE:** The test information is invalid if the RPM is not maintained at approximately 60 RPM.

You are required to raise your heart rate between 120 and 170 BPM for minutes 5, 6 and 7 (optional minute determined by the program). It is best to use a heart rate strap to properly measure your heart rate.

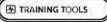














If, during the test, your heart rate reading levels out increase the resistance LEVEL, but DO NOT change the speed at which you are pedaling.

The Fitness Test utilizes age, gender, weight, workload output and HR to calculate two values:

- Max VO<sub>2</sub> (in m/O<sub>2</sub>/Kg/min) - measurement of oxygen consumption, which is used to define aerobic fitness.
- Fitness Level - allows a user to track progress on a scale from 0% to 100%.

**NOTE:** You must wear the heart rate strap during the FITNESS TEST to monitor your heart rate.

**To operate the Fitness Test program:**

1. Mount the bike (please refer to “SEAT ADJUSTMENTS” section), begin pedaling, and press the  key.
2. You are prompted to select the desired TRAINING TOOLS program. Press the  key when prompted to select Fitness Test.
3. You are prompted to enter your weight. The bike displays a default weight of 155 pounds (70 kg). You may enter any weight from 0 to 350 pounds (0 to 159 kg).
  - Use the ... keys to enter your current weight; or press the  or  key, as necessary, to increase or decrease the displayed weight in 1 pound (or 1 kg) increments.
  - When your correct weight has been entered, press the  key to accept the displayed value.
4. You are prompted to enter your gender.
  - Press the  key to set the gender to “male”, press the  key to set the gender to “female”.
  - When your correct gender has been entered, press the  key to accept the displayed value.
5. You are prompted to enter your age.
  - Use the ... keys to enter your age, or press the  or  key, as necessary, to increase or decrease the displayed value in 1 year increments.
  - When your correct age has been entered, press the  key to accept the displayed value.
6. The FITNESS TEST runs for 6~7 minutes. During the Fitness Test, you must maintain pedaling speed at a constant 60 RPM. During the test, you may adjust the difficulty LEVEL at any time.
7. If desired, you can use the personal cooling fan during your workout (see “Using the Cooling Fan” for details).
8. When the test is completed, the bike enters the Cooldown cycle (see “Cooldown Cycle” for details). If you wish to exit the program before you have reached your workout goal, stop pedaling and allow the Pause timer to expire.

# PREVENTIVE MAINTENANCE

With durable, high performance components, your **STAR TRAC E- UB / RB** is designed for heavy usage with minimal maintenance required. To keep your bike in top condition, Star Trac strongly recommends performing the regular daily, weekly and monthly preventive maintenance routines outlined below.

## DAILY MAINTENANCE

Perform the following services every day:

- Remove excessive accumulations of dust, dirt, and other substances by using a clean, soft cloth and a non-abrasive liquid cleaner, such as Formula 409™ or FANTASTIK™. Wipe down the exterior of the display panel, cranks, pedals, shrouds and heart rate grips.

**NOTE:** *DO NOT spray the cleaner directly onto the display panel or heart rate grips.*

## WEEKLY MAINTENANCE

Perform the following services each week:

- Inspect pedal, straps and crank assembly for any signs of wear or loose components. Tighten if necessary.
- Vacuum the floor around the bike.
- Inspect the display panel mounting screws for security, and retighten if necessary.
- Check leveling feet and verify all four feet contact the floor and that the unit is stable.
- Inspect the display panel keypads for wear and proper function.
- Inspect seat assembly for smooth operation and any signs of wear. Wipe clean with a clean, dry lint free cloth.
- RB only – Inspect and wipe clean the adjustable heart rate assembly bar.

## MONTHLY MAINTENANCE

Perform the following services each month, or more frequently as needed:

- Check that the pedals and cranks are secure.
- Inspect the shrouds for any signs of loosening or wear that might be unsafe.
- Check the seat assembly for security. Tighten bolts as necessary.
- Check the leg beams and lower linkages for signs of wear and tighten hardware as needed
- Check for smooth and quiet operation of all moving parts.




Any unusual symptoms, such as a loud continuous noise during operation, should be reported to **STAR TRAC PRODUCT SUPPORT DEPARTMENT** at (800) 503-1221, or USA 1-714-669-1660.

# MANAGER / MAINTENANCE MODE

After using your **STAR TRAC E SERIES BIKE** for a period of time, you may wish to change some of its settings.

## MANAGER MODE

The Manager Settings allow you to query and modify the basic settings of your bike. To enter Manager Settings:

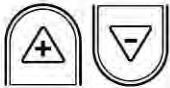
1. Press and *hold* the ,  and  keys together.
2. A beep will sound and "MANAGER SETTINGS" will display momentarily in the Information Window.
3. Release all keys. "SERIAL NUMBER" will display in the Information Window.

**NOTE:** The system will automatically exit Manager Settings if no key is pressed for 30 seconds.

The following keys are used to modify MANAGER SETTINGS:



**Upper and Lower Data Information Window SCROLL Keys:** Display the next and previous parameters, respectively. Keys will repeat if held.



**Increase and Decrease LEVEL Keys:** Adjust the value of the displayed parameter up and down, respectively, in increments of 1 unit. These keys *do not* save the new value - see **OK Key** below.



**OK Key:** Updates (saves) the value of the displayed parameter in Flash memory, and exits Manager Mode.




**NOTE:** To exit Manager Mode without saving any values or settings, press the QUICK START key.

The items that you may display and change with the previous keys are:

Item	Lowest Value	Highest Value	Default Value	Meaning
Serial Number	0	65535	0	E SERIES BIKE serial number (set by factory)
Date	01/00	12/99	07/03	Manufacture date for the E SERIES BIKE (set by factory)
Display Vers 1	1.0	9.99	N/A	Display panel software version (set by factory)
Display Vers 2	1.0	9.99	N/A	Display panel software version (set by factory)
LCB Vers	1.0	9.99	N/A	Display panel software version (set by factory)
Units	English	Metric	English	English = units of pounds, miles, feet, inches; Metric = units of kilograms, kilometers, centimeters.
Time	5	99	20	Maximum time in minutes allowed for program, excluding warm-up and cool-down.
Weight	50 (Lb) 22 (KG)	350 (Lb) 158 (KG)	155 lbs 70 (KG)	Default (to user), typical weight in lb (UNITS=English), or kg (UNITS=Metric).
Language	N/A	N/A	English	Language is English, Dutch, French, German, Portuguese, Spanish, Swedish, Italian or Katakana.

# MAINTENANCE MODE

Your Service Representative may need to check accumulated data about the past usage of your bike, test its display controls, or investigate error messages. For these reasons, your bike is equipped with a Maintenance Mode. The Maintenance mode includes all of the items available through Manager Mode, plus additional items for Service and Diagnostic use. To enter Maintenance Mode:

1. Press and *hold* the ,  and  keys together.
2. A beep will sound and "MAINTENANCE SETTINGS" will display momentarily in the Information Window.
3. Release all keys. "SERIAL NUMBER" will display in the Information Window.

The following keys are available in MAINTENANCE SETTINGS:



**Upper and Lower Data Information Window SCROLL Keys:** Display the next and previous parameters, respectively. Keys will repeat if held.



**Increase and Decrease LEVEL Keys:** Adjust the value of the displayed parameter up and down, respectively, in increments of 1 unit. These keys *do not* save the new value - see **OK Key** below.



**OK Key:** Updates (saves) the value of the displayed parameter in Flash memory, and exits Maintenance Mode.

**NOTE:** To exit Maintenance Mode without saving any values or settings, press the QUICK START key.

The items that you may display and change with the previous keys are:

Item	Lowest Value	Highest Value	Default Value	Meaning
Serial Number	0	65535	0	E SERIES BIKE serial number (set by factory)
Date	01/00	12/99	07/03	Manufacture date for the E SERIES BIKE (set by factory)
Display Vers 1	1.0	9.99	N/A	Display panel software version (set by factory)
Display Vers 2	1.0	9.99	N/A	Display panel software version (set by factory)
LCB Vers	1.0	9.99	N/A	Load Control Board software version (set by factory)
Units	English	Metric	English	English = units of pounds, miles, feet, inches; Metric = units of kilograms, kilometers, centimeters.



Item	Lowest Value	Highest Value	Default Value	Meaning
Time	5	99	20	Maximum time in minutes allowed for program, excluding warm-up and cool-down.
Weight	50 (Lb) 22 (KG)	350 (Lb) 158 (KG)	155 lbs 70 (KG)	Default (to user), typical weight in lb (UNITS=English), or kg (UNITS=Metric).
Language	N/A	N/A	English	Language in English, Dutch, French, German, Portuguese, Spanish, Swedish, Italian or Katakana.
Model	N/A	N/A	BIKE	BIKE = Upright or Recumbent Bikes TBT = Total Body Trainer STEPPER = Stepper
LCB Type	VER1	VER3	VER2	Type of LCB detected by display.
CSAFE	OFF	ON	OFF	Turns on/off CSAFE communication.
PVS	N/A	N/A	ATSC	ATSC/NTSC or PAL/SECAM, RF Signal for PVS
WALL POWER	OFF	ON	OFF	Turns the wall power setting on/off.
AUTO FAN	OFF	ON	ON	Turns Fan on 1 minute into program
OPER Hours	0	65535	0	Total operating hours
BATT Hours	0	65535	0	Total battery use hours
Quick Start	0	65535	0	Number of times the Quick Start program was run since last reset.
Manual	0	65535	0	Number of times the Manual Program was run since last reset.
Warm Up	0	65535	0	Number of times the Warm Up Program was run since last reset.
Auto Pilot	0	65535	0	Number of times the Auto Pilot Program was run since last reset.
IHR Program	0	65535	0	Number of times the Interval Heart Rate Control Program was run since last reset.
CHR Program	0	65535	0	Number of times the Constant Heart Rate Control Program was run since last reset.
WI Program	0	65535	0	Number of times the Watts Interval Program was run since last reset.
CW Program	0	65535	0	Number of times the Continuous Watts Program was run since last reset.
Fit Test	0	65535	0	Number of times the Fitness Test Program was run since last reset.
Alpine	0	65535	0	Number of times the Alpine Pass Program was run since last reset.
Rndm Prog	0	65535	0	Number of times the Random Hill Program was run since last reset.
Comm Lost	0	65535	0	Number of times a "Communication Lost" condition occurred since last reset.
Key Down	0	65535	0	Number of times a "Key Down" condition occurred since last reset.
BATT LOW	0	65535	0	Number of times battery voltage measured between 5.3 and 5.7 volts
REPL BATT	0	65535	0	Number of times battery voltage measured below 5.3 volts
LED Test	N/A	N/A	N/A	Access to integral LED test function (for use by authorized Maintenance Technician).
Keypad Test	N/A	N/A	N/A	Access to integral keypad test function (for use by authorized Maintenance Technician).
Heart Rate Test	N/A	N/A	N/A	Access to integral heart rate system test function (for use by authorized Maintenance Technician).

Item	Lowest Value	Highest Value	Default Value	Meaning
FAN TEST	N/A	N/A	N/A	Access to integral FAN TEST function (for use by authorized Maintenance Technician).
CSAFE TEST	N/A	N/A	N/A	Access to integral CSAFE TEST function (for use by authorized Maintenance Technician).
Measurements	N/A	N/A	N/A	Access to integral Measurements function (for use by authorized Maintenance Technician).

## TROUBLESHOOTING

**STAR TRAC E SERIES BIKES** perform a self-test at the beginning of every workout. If a problem is detected, a message displays before or after the workout, depending on the nature of the problem. Star Trac recommends that you refer your questions about your **STAR TRAC E SERIES BIKE** operation and suspected malfunctions to Star Trac's Service Hotline at (800) 503-1221, or USA 1-714-669-1660.

## SERVICE MESSAGES

The following messages are displayed if the associated problem is detected during self-test.

- **Key Down** - One or more keys on the display panel are stuck in the "on" position. This can occur if a user presses keys before the system is turned on. Call Star Trac Product Support for assistance if the **Key Down** message continues to display.

# REGULATORY INFORMATION

## FCC AND OTHER DOMESTIC REGULATIONS

The E- UB / RB has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC rules. Under the FCC guidelines, operation is subject to the following two guidelines: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The Star Trac E- UB / RB generates and uses radio frequency energy. If the products are not installed and used in accordance with the instructions provided in the owner's manual, interference with radio communications may occur. Likewise, if unapproved accessories are installed, interference with radio communications may occur. The intent of the FCC Class B limit is to provide reasonable protection against harmful interference in a residential installation. However, there is no guarantee that interference may not occur in a specific installation. In the event that interference is experienced, turn off the unit to verify that it is in fact the source. If the interference clears with the unit off, then try each of the following measures and combinations thereof:

- Reorient or relocate the bike
- Reorient or relocate the receiving antenna of your television, radio, and / or VCR recorder.
- Connect the unit to a different power outlet. (if applicable)
- Consult Star Trac Support, your authorized dealer, or a qualified radio / television technician for assistance.

This product has been tested to meet the following standards:

- UL 1647 Safety for Motor operated Message and Exercise Machines

## CANADIAN DOC AND OTHER INTERNATIONAL REGULATIONS

This Class A digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. This product has also been tested to meet the following standards:

- CSA C22.2 No. 0-M91 General Requirements
- CSA C22.2 No. 68-92 Motor Operated Appliances

## EUROPEAN APPLICATIONS

The product also has been tested to meet the following international standards:

- EN 60355-1 Safety of the household and Similar Electrical appliance
- EN 957-1 Safety of Machinery
- EN 957-5 Pedal Crank training equipment, additional specific safety requirements
- EN 61000-6-1 EMC Generic Standards, Immunity for residential, commercial and light-industrial environments.
- EN 61000-6-3 EMC Generic Standards, Emissions standard for residential, commercial and light-industrial environments.

STAR TRAC USA  
14410 Myford Road  
Irvine, California 92606  
PH: (800) 228-6635, (714) 669-1660  
Fax: (714) 508-3303

STAR TRAC EUROPE  
The Gateway Center, Unit #4  
Coronation Road, Cressex Business Park  
High Wycombe, Bucks, HP123SU  
United Kingdom  
PH: + 44 1494 688260  
Fax: + 44 1494 688269

STAR TRAC ASIA  
No 39 A Jalan Peminpin  
Halcyon Building #04-01C  
Singapore, 577183  
PH: + 65 6255 6252  
Fax: + 65 6255 1501

<http://www.startrac.com>  
email: [support@startrac.com](mailto:support@startrac.com)

