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Star trac 4500 treadmill manual

Section 1: Welcome to the world of STAR TRAC. In your hands is the STAR TRAC TR 4500 service manual. This manual is designed to be easy to use, providing step-by-step instructions on how to service and maintain the TR 4500. It is strongly recommended to read all applicable sections of the service manual before serving the treadmill. The information on the following pages will allow you to get started quickly, quickly, and securely. Content 1.1 How to use service manual 1.4 Test tools and equipment 1.2 Precautions 1.5 Treadmill overview. 1.3 Product support assistance How to use this manual •This service manual has been written to assist and instruct the repair technician on key components for a quick and efficient diagnosis of service issues. •Contribute to the search for the applicable sections in the service manual. Each section has a table of contents to help identify specific symptoms and topics. Major titles and titles can be found at the top of each page. •This manual should be used strictly as a maintenance manual for service and repair, not as a user manual. •An illustrated list of parts can be found on the back of this manual to identify parts with part numbers. •Troubleshooting tables and error code flowcharts are included for some sections to diagnose the system problem and find the root cause. 1. Always make sure that the treadmill is turned off and disconnected before starting any work, unless otherwise indicated, or when necessary for voltage tests. 2. Read each section for NOTES before starting any work. 3. To disassemble the electrical connectors, pull the connector itself, not the wires. 4. When replacing fuses, make sure that the new fuses are the correct assessment of the amperage. Do not exceed the evaluation of the fuse amplifier. If necessary, use a lower evaluation fuse until you reach the correct fuse. 5. When checking continuity on the wire connector, carefully insert the test probe to prevent the terminals from bending. 1.2 The STAR TRAC Product Support Department determines the industry standard for customer service and technical support worldwide. Providing superior product support and customer service is at the heart of STAR TRAC's business philosophy. This commitment to service has been one of the main factors contributing to star trac's success and growth in the global fitness equipment industry. Technical assistance •When buying a part or part of the technical support department, contact our product support department: CALL THE TOLL-FREE NUMBER: 1-800-

535-4634 or 800-503-1221 USA and CANADA or 714-669-1660 • At the time of the call, please have the following information: model 1.STAR TRAC. 2.STAR TRAC serial number 3.Declaration/symptom of the problem. After Hours Voicemail Direct •CALL THE TOLL-FREE NUMBER: 1-800-486-4736 •At the time of the call, please have the following information 1. MODEL STAR TRAC. 2. STAR TRAC 3 SERIAL NUMBER. Declaration/symptom of the problem. 4. Return the phone number and contact's name. Fax requests •National and international: Fax 714-669-0739 •When entering the fax, provide the following information: 1. STAR TRAC model. 2. STAR TRAC 3 SERIAL NUMBER. Declaration/symptom of the problem. 4. Return the phone fax number and contact's name. 5. Purchase order or reference number. 6. Description and quantity of parts. 7. Ship to/invoice a. Access to support documentation • Web page •Documents CALL TOLL-FREE 1-800-429-3228 internal 640 USA and Canada or 714-253-3878 for a list of product support procedures and bulletins. Equipment function Philips Head Screwdriver #2 Shroud Motor Control Board Assembly Side bed cover and auto-transformer terminal caps Small slit screwdriver 3/32 Engine control potentiometers (MAX SPD) & (IRCOMP) Bungee Cord 28 Suspend engine shroud on Rail 5/32 Display Hex Allen Handrail Assembly Key 5/64 Hex Allen Key Head Display Board Set Key Display Hex Allen 1/8 Mounting the Hex Allen 1/4 Key Key Display Tail Roller of the 5/16 Running Belt Head Roller Or 9/64 Driver Drive Motor Bolts Allen Wrench Elevation Motor 17 mm Multi-meter Voltage Checks Continuity / OHM QChecks 1.4 •DC POWER SUPPLY The MCB provides power to the display assembly. Establishes a reference voltage and a potenziometric position from the elevation motor •RUNNING BELT MOTOR DRIVE CONTROL Takes AC and converts it into pulse width modulation (PWM) to power the drive motor. Engine voltage feedback and speed control controls determine the PWM power level delivered to the engine. Engine control circuits include fault detection and safety features. •TACHOMETER SIGNAL CONDITIONING The RPM sensor signal is fed to the signal conditioning circuits on the MCB, where the signal is converted into a digital output used by the display assembly to indicate the speed of the belt. •ELEVATION MOTOR CONTROL The elevation circuit on the MCB receives the elevation direction and allows information from the display assembly, using these signals to provide control to the elevation engine. Elevation position information, in turn, is placed in the display assembly to indicate the skew percentage. 1.5 Section 2: Preventive maintenance programs It is strongly recommended to perform regular preventive maintenance on all Star Trac treadmills. Maintenance-free normal wear can cause cumulative effects, such as misalignment and early replacement of parts. This can result in downtime. For this reason, it is strongly recommended to follow the manufacturer's maintenance programs. Content: 2.1 Preventive maintenance staff 2.2 Basket reaction 2.0 Maintenance of the preventive maintenance graph Cleaning Inspect Replace daily using an inspection of the liquid for non-abrasive wear and tear on ex- regularly clean the parts of the terior, following: in particular under the video card the running strap, handrail, inspect the shroud line, heart cable plug and frequency grips. Cable for possible Note: Do not damage or splash loose directly connection, on the board or on the heart grips. It raises weekly the running treadmill and belt alignment vacuum under and tension, the unit. Inspect the Note area: Disconnect under the unit when treadmill for vacuum cleaner. Obstructions. Monthly engine lift Inspect the use of a silicone shroud and display and spray lubricate the vacuum handrail screwing the elevation around the for loosening, while the engine and inspect the unit is electronic. high display panel. Clean keys and lub for wear. Note: This must be done with screws. note of the unit: this is disconnected and must be turned off, with the unit disconnected and turned off. Quarterly wax the running strap and the bridge using unisen powder wax. Note: Apply wax powder while belt and bridge are still warm (5 to 15 minutes of use) for optimal benefit. The following steps are performed with the treadmill off. Note: Blow away the extra wax first from around the handrails and deck before cleaning. Note: The RE WAX prompt can be cleared in Settings or configuration mode. The treadmill is designed with an automatic prompt, which will show RE WAX on the screen every 2,000 miles or 3,000 kilometers. The following procedure explains step by step how to apply wax and clear the RE WAX prompt. Time required: 5 minutes Required tools: 1 bag of wax powder (Unisen) teaspoon 1 clean towel paint stick or cleaner for all uses diluted by yard stick (409) PROCEDURE brush bristles PHASE 1: Cleaning the bridge and belt: •Using the stick or ruler, slide a towel under the center of the belt from one side of the frame to the other. •Hold the edges of the towel, pull from the head roller to the tail roller, then pull the belt down to clean the rest of the belt. TIP: Be careful when removing the towel, it will be dirty. Fold the dirty towel and shake in the trash. STEP 2: Bridge and belt waxing: •Lift the left side (facing the display) of the belt, about 12 inches from the engine shroud (see figure above). Hold the belt high so that the width of the belt is elevated from the bridge. •Gently place a teaspoon of powdered wax on the deck about two inches from the edge and blow the wax constantly under the belt, so that the wax powder is evenly distributed over the (see figure above). Gently place a teaspoon of second-level wax at 18 inches along the belt. •Repeat the previous step on the right side of the belt and bridge. STEP 3: Walk the wax in: •Start the treadmill at 1 mph and walk on all sections of the belt and deck for 1 minute to make sure the wax has been evenly distributed and machined properly. STEP 4: Cleaning: •Remove excess wax diluted detergent (409) and towel, or bristle brush. STEP 5: Clear the RE WAX prompt: •Turn on settings or configure modes. Press and hold keys 0, 1, or(2) & START, release only key 1 or (2). The display will signal and show SETTINGS or CONFIGURE momentarily (depending on whether key 1 or 2 has been released), units will be displayed. •Press the tilt down key (elevation) until LSTDCK is displayed. Press and release the HEART button, this will automatically transfer the miles /kilometers accumulated in the LSTDCK, press Enter key to save money. 2.2 Section 3: Diagnostics The STAR TRAC 4500 treadmill series contains diagnostic and customization modes. In these modes, you can control accumulated data about past treadmill usage, test its engine and display controls, and examine display code messages. For these reasons, the treadmill is equipped with a: • Manager mode (customize) • Display test mode (diagnostics) • Maintenance mode (diagnostics) • Heart rate test mode (diagnostics) • Engine test mode (diagnostics) Content: 3.8 Immersive engine test mode 3.1 Engaging manager mode 3.2 Immersive maintenance mode 3.9 Calibration 3.3 Description of parameters 3.10 Test mode of the engaging display Heart rate test mode After using the Star Trac 4500 treadmill for different workouts, you can customize the treadmill in a special way by changing some of its settings. To turn on Manager mode: 1. Hold the 0, 1 & START keys together. Holding down the 0 & START keys, release only key 1. 2.If display will beep and temporarily show Manager mode, and then units will be displayed. Once the treadmill is in Manager mode, you can use the following keys: INCLINE KEY: Displays the next or previous parameter. SPEED KEYS: Changes the variable within the parameter. ENTER KEY: Saves the value if changed in the EPROM (software). Note: You must press ENTER KEY for each changed value. STOP KEY: Manager mode exists and restarts the treadmill with a hot start. 0 – 9 KEYS: Enters new parameter values. If the UNITS parameter is displayed, key 5 starts DISPLAY TEST and key 8 starts motor testing. HEART KEY: When pressed, the default value is automatically displayed. Note: You must press ENTER KEY to save the default values if they change. 3.1 The following parameters can be modified using the above keys: Parameters Lowest Highest Option 1 Option 2 Default Meaning Value Value UNITS ---- English Metric English= units of lbs., hours, minutes Metric= units of kg., km, hours, minutes. MN SPD 0.1 2.5 English=0.5 Metric=1.0 0.5 Velocità minima in MPH o KM/HR MX SPD 5.0 20.0 Inglese=10.0 Metric=20.0 10.0 Velocità massima in MPH o KM/HR EL OPT ---- ON ON ATTIVA Attiva o DISATTIVA Il sistema di elevazione. TEMPO 5 99 99 Tempo massimo in allowed for the program, including heating/cooling. OP HRS 0 0 ---- 6,553.5 Total operating hours DIST 0 0 ---- 65.635 Total treadmill miles (Unit=English) or kilometers (Unit=Metric) WEIGHT 10 399 ---- 155 Default (for the user), typical weight in pounds/kg depending on the setting (UNITS= ENGLISH or METRIC SER NO 0 0 ---- serial number treadmill 65.535. LANG ---- English in English, Dutch, German, Portuguese, Spanish, Swedish or Italian. ENTRY ---- Drive Tenth Drive This variable changes the starting speed to Drive Maintenance Mode or Tenth Drive 3.2 Includes all items in Manager mode, as well as additional data that is automatically saved to resolve correctly in case of problems. To turn on maintenance mode: 1. Hold keys 0, 2, and START together. Holding down the 0 & START keys, release only key 2. 2.If display will beep and show MAINTENANCE momentarily, then units will be displayed. Once the treadmill is in maintenance mode, you can use the following keys: INCLINE KEY: Displays the next or previous parameter. SPEED KEYS: Changes the variable within the parameter. ENTER KEY: Saves the value if changed in the EPROM (software). Note: You must press ENTER KEY for each changed value. STOP KEY: Manager mode exists and restarts the treadmill with a hot start. 0 – 9 KEYS: Enters new parameter values. If the UNITS parameter is displayed, key 5 starts DISPLAY TEST and key 8 starts motor testing. HEART KEY: When pressed, the default value is automatically displayed. Note: You must press ENTER KEY to save the default values if they change. 3.3 The following parameters can be modified using the above keys: Parameters Lowest Highest Option 1 Option 2 Default Meaning Value Value UNITS ---- English Metric English= units of lbs., miles, hours, minutes Metric= units of kg., km, hours, minutes. 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