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Introduction Of Autotrac Satellite Key Components of the Set of Specifications Communication Antenna Terminal Features Status Terminal How to Read Messages in How to Show Messages How to Read New Messages How to Read Saved Messages How to Send Messages Free Message Format and Makros How to Create a Free Message Form How to Prepare MACRO How to Send a Message to the Traffic Operator How to Respond to incoming Messages Gps Screen Position GPS Position Gps Position Screen Position Of the Screen Installation Of the Excluding You. Accessories Authorized Network and Technical Assistance Homologation Anatel Application Installation Requirements 5 1.1 Autotrak Satellite 1. INTRODUCTION Autotrac Satellite is forming a satellite network that allows communication to be exchanged between the company's operating base and its vehicles in the country. The image below shows the interaction between the components of the Autotrac satellite. The Autotrac satellite consists of: Figure: Autotrac Satellite SuperVisor Web, which is the operating interface between the company's operating base and the vehicle (s); From the Operations Centre (HUB), which is responsible for the management and operation of the system as a whole; From a communications satellite that allows information to be exchanged between the company's operating base and vehicle; Do that in the vehicle. It is the mobile equipment of the Autotrac satellite, which allows you to communicate between the driver, is the basis of the company's work; Satellites of the Global GPS Positioning System, which allows you to determine the exact location of the vehicle. User guide 5 6 1.2 O is a satellite communications equipment that allows you to exchange messages between the driver and his traffic operator on a work-based basis. It consists of communication antennas and Data. Picture: Terminal and Communication Antenna 1.3 1.3 The basic kit of the basic kit has the following components: Communication Antenna Terminal A cable to connect the terminal cable to connect the antenna and power support terminal panic button You can install other accessories available from the automatic satellite line, more information is given in the ACCESSORIES section of this guide. 6 7 1.4 Specifications Physical parameters Recommended storage temperature -40oC to 85oC Maximum operating temperature 70oC Minimum operating temperature Antenna weight ACU Antenna sizes (diameter X height) -30oC 5.3Kg 29.2cm X x x 21 .8cm Electrical Options Maximum Transmission Consumption 60W Consumption alone 30mW Maximum Operating Voltage 32V Minimum Voltage 9V Voltage Assessment 12/24V 1.5 Antenna Communications Antenna Communications ACU is the unit responsible for transmitting and receiving satellite data. 1.6 Terminal O is operated by The Terminal. The Terminal keyboard is like a typewriter. Messages are read and sent using function keys located at the bottom of the liquid crystal screen (display). IMPORTANT Do not write or read messages while you are with the vehicle in motion, as this may distract you, which can lead to a traffic accident. User Guide 7 8 1.7 Features Drawing Terminal: Terminal Display - At the top of the terminal is a liquid crystal screen (LCD with 4 lines and 38 letters per line), which is a screen where messages and status information will be read. Messages can have up to 50 lines, but you can read 4 lines at a time. Messages that have more than 4 lines can be read using the direction keys. No light signal when on, indicates that you are unable to communicate with the communication satellite. This can happen when driving in a large tunnel or when you create a closed curve. In such cases, the lights will be extinguished in a minute. When the vehicle's ignition is turned on, it may take 10 seconds to 10 minutes to find the satellite, given that it was available to the satellite. If the light is constantly on and the antenna was free of the satellite, contact the motion operator. When erased, this means that you receive and transmit the data to the satellite. Waiting for a light message indicates when one or more messages arrive. The light of the waiting message may suggest the following situations: On: Indicates that one or more incoming messages are waiting to be read; Removed: indicates that there is no message waiting to be read; 8 9 Blinks: indicates that an important message is waiting to be read. Light Control display - Light Control display turns the display on and off the display lights, helping you read. Contrast Control display - contrast control regulates the brightness of the text written on the display. To whom Click on the wash key; To lighten the press top of the key. Terminal Audio Control - Audio control adjusts the volume of msG beep WAITING for the terminal. To increase the volume, press the top of this button and reduce it, press the bottom of the button. Buzzer Buzzer is triggered whenever the Terminal key is pressed and when the message arrives, in this case, you should observe the type of trigger as described below: the beep : indicates that you have received the message. Multiple beeps: Indicates that you have received an important message. It is programmed to emit three short beeps per minute until the message is read. This feature can be modified by the traffic operator. Repeated beeps: Indicates that it contains messages that have not yet been read. O is programmed to beep (or three in the case of an important message) every five minutes until the message (or message) is read (s). This feature can be modified by the traffic operator. 1.8 Status of the logo after the VIEW STATUS is switched on or after the view key is pressed, the state screen is displayed on the display. This screen shows the state of the system and indicates how many messages have not been read or expects to be sent to the traffic operator. As an example below: U T O T R A C 20/6/12 9:55 G -3 MSGS UNREAD: 0 STATUS: GOOD MSGS TO SEND: 0 Date and Time Field Date and Time field will tell the date and current time as well as the chosen time zone. User Guide 9 10 Note: To adjust the time zone, press the q or key on the status screen. The new time zone will be shown on the screen when the keys are pressed. Confirmation of the desired time zone occurs immediately after its choice. To view the state screen, simply tap the VIEW STATUS on any other screen. STATUS Field - This field indicates an operational state and shows whether it is working correctly or whether there are any problems. In this field will show one of the following information: GOOD: IF you work correctly. BAD: This is followed by a numerical error code (such as 3112) if you're having problems. Please note any error code that appears in this area and alert the traffic operator. AT REST: This expression appears within about 40 seconds of the truck ignition being switched off. This time is variable depending on how the motion operator defines it. You can still send and receive messages in SLEEP mode (as long as the SIGNALLESS light is off) as the antenna will still be pointing to the satellite. MSGS FIELD NOT NOT READ - The UNREAD MESSAGES field indicates the number of messages that have received it but have not yet been read. This number grows as new messages are received and decreases as they are read. MSGS SEND FIELD - MsGS SEND field indicates the number of messages currently sent to the traffic operator. This number increases as messages and decreases when the traffic operator receives messages. NOTE: When the MSGS SEND field shows a value of 20, you can't create more messages until one of the messages is sent. This usually happens when you try to send a message without you aiming at a satellite. In this case, the Terminal display will have a FULL TRANSMISSION MEMORY warning, and if the CREATE MSG key is pressed, the beep will be signaled twice. You will only be allowed to create a new message after the MSGS SEND field shows a smaller number than HOW TO READ MESSAGES NO Once you receive a message from the traffic operator, it saves the message for it to be read later. Once you read the 10 to 11 received the message showing it on the light screen of the terminal, it is stored in memory as you read the message. This chapter explains how to read both types of posts: read and don't read. In addition, this chapter teaches you how messages are displayed on the terminal screen, and includes instructions on how to read long messages and delete stored messages. When you receive and salvage a message from a traffic operator, you can observe the following procedure: 1. Terminal of beeps; 2. The light of waiting messages lights up; 3. When this is an emergency message, the terminal will ring the beep three times and the waiting message light will flash. 2.1 As the Terminal shows the Terminal, messages sent and received in several different formats are shown. Incoming message screen messages received by the traffic operator are displayed in CAPITAL LETTERS in the Terminal, as shown in the following digit: RCB #13 RA 27/06/ :20 G-3 YOUR TRIP IS RELEASED. GOOD TRIP Message received from a traffic operator contains the following information elements: message header: 1. Type of message received (RCB). 2. Message number (13 in case of example). User guide 11 12 3. Return receipt status indicator. This is an extra box, and most of the messages are empty. If the Traffic Operator requests an automatic notification through the receiving sign when the message appears on the terminal screen, two types of status indicators may appear. Initially, the RP is displayed when the receiving signal begins to be transmitted to the Operations Center. When the Operations Center warns you that you have received a signal about receipt, the RA is displayed. These status metrics are defined as: RP - Getting READ RA confirmations - Getting accepted Reading Confirmation 4. The date and time of the message. Text message. The text appears in the next four lines of the screen. Screen Sent Messages sent to the traffic operator appear in lower register emails in the terminal, as shown below: ENV #21 A 6/27/:24 G-3 test message. The message that was or is currently For the traffic operator will have some information elements when it is displayed again on the terminal display. These items are: the headline message: 1. Type of message (ENV sent). 12 13 2. Message number (21 in example). 3. Recognition indicator (A in example) indicating that the message has been received and confirmed is available to the traffic operator for reading. And it appears not immediately after sending the message, but only after the message is sent and the confirmation signal is received. Usually this indicator appears only after a short time after sending the message. NOTE: If you can't send a message, XXX may appear in the message header instead of A. This means that the drive is in trouble. Contact the traffic operator immediately. 4. The date and time the message was sent. NOTE: If the message was created before NO SIGNAL was released, date NOT NOT AVAILABLE will appear instead of date and time. Don't worry about it because the message was sent. Text message. The text appears in the next three lines of the screen. 2.2 How to read new messages to read the message you've just received (Message Light Waiting on), do the following: 1. Click READ PROXIMA. Thus, the text of the message will be shown on the screen. If you're reading an old message when the lights go out, click READ PROXIMA until the light turns off and the new message appears on the screen. 2. If more than one message is waiting to read (Message Light Waiting on), read the following by clicking READ PROXIMA again. 3. Press READ PROXIMA several times until all the messages have been read. When the last message, which has not yet been read, appears on the screen, the light of waiting messages will come down. The terminal will beep twice when the last stored message is displayed. It's an easy way to understand that there are no more messages to read. Note: When the message cannot be fully displayed on the display, the arrow shown up or down appears on the left side of the display. This arrow indicates that the message contains additional text. By pressing the keys, you'll be able to see other lines of text. User Guide 13 14 2.3 How to read saved messages to read messages that are stored in memory, click READ PROXIMA or READ PREVIOUS. Using these keys is like flipping through a page of a book. If you want to read a message that has been saved before reading, click READ PREVIOUS and text the message with the previous number to the current one will appear on the screen. To read the latest post, click READ PROXIMA. The terminal will signal twice if the key is pressed when the last saved message is on the screen, alerting you that there are no new stored messages. Similarly, the beep will be played twice if pressed when the first saved message is on the screen, alerting you that there is no old saved message. NOTE: Saved messages are measured from 1 to 99. The number of messages stored in memory depends on the size of the messages (if the messages are large, fewer messages will be saved). Automatically delete old messages when new messages are frayed. 3. HOW SEND MESSAGES It takes two steps to send a message to a traffic operator: 1. Creating a message: includes typing (free or macroformat) and correcting any errors that occur during typing. 2. Send a message: When the text is complete, you must send it to the traffic operator. This chapter details how to create and send messages. It also explains how to respond to a particular message and continue to create a message (interrupted for some reason). 3.1 Free-format messages and Macros messages sent or received in free format or macros. Free-form messages consist of free text (such as writing on a piece of paper). The macros that are likely to be most used are messages in which empty spaces are filled in advance, or full messages that are simply checked and sent. 14 15 3.2 How to create a free message form to create a free message form, do the following: 1. Click CREATE MESSAGE to start a new message, as shown: 2. Click ENTER. This will cause the cursor to descend to the beginning of the text message area, as shown in the next digit. The number zero (0) will also automatically appear next to MESSAGE ENTER THE MACRO NUMBER (this reminds you that the macro number is 0 relative to free-form messages). ENTER THE MACRO NUMBER (0-63): 0 USE / - TO SEE MACROS. 3. Enter the text of the message. Tips for creating a free-form message When creating a free-form message, remember that: Written words will be displayed on the screen exactly as much they do. However, if the word does not fit at the end of the line, it automatically moves to the bottom line. This object was created in such a way that there was no problem with whether the word would match at the end of the line; When you type a message, you can press the ENTER key at any time to start a new line. When you do this, the cursor will be delivered to the left corner of the line below which you were, where you can continue to print the text; You can insert an empty line in the middle of the text by pressing the ENTER button twice; The message that needs to be sent to the traffic operator can have a user guide of 15 16 to 50 lines. To whom you type, the first lines of the message will disappear at the top of the screen to make room for the new lines. The arrow appears in the top left corner of the screen, indicating that there is a part of the text that is not displayed. You can see the lines that are off-screen by clicking ON ARROW UP and DOWN ARROW directed arrows. How to correct errors in the text of a free-form message before sending a message, review to check errors and correct what you think is necessary. It's easy to fix bugs in the message. To do this, do the following: 1. Use the arrows (and) to move the cursor (character) to a position that requires correction. 2. To remove one or more letters from the message, use the arrows to unsalt the cursor to the right of the letter (s) that will be removed (s) and press the DEL key (once for each letter to be removed). 3. To include one or more letters in the message, use arrows to spread the cursor in a position where the letter (s) should be turned on and enter the desired text. 4. When the text is finished and corrected, the message will be ready to be sent. Click SEND and then S to send a message. 3.3 You can save up to 63 macros how to prepare MACRO. Each of these Macros has numbers that range from 1 to 63 (the number 0 is used for free-form messages). Because this type of message only fills in predetermined empty spaces, meaning you only enter the dotted line available on the screen, you can't change the message format. How to view Macro To see Macro on the screen, do the following: 1. Click CREATE MESSAGE to access the Message creation screen, as shown below: 16 17 - ENTER THE MACRO NUMBER (0-63): 2. If you already know the macro level you need to fill out, enter this number at the end of the ENTER THE MACRO NUMBER (0-63) line and press ENTER. By doing this, fill the Macro fields with the necessary information. If you don't know the macro number you want, follow these steps. 2.1 Click the I or I buttons to see the available Macros. When I click, Macro will be shown on the screen and the number associated with it is displayed at the end of the ENTER THE MACRO NUMBER line (0-63). 2.2 Keep pressing the I button until the macro appears on the screen. Every time you press the I key, the next macro will be shown. 2.3 If necessary, press the key to see previous macros. Each time you press the key, the previous macro (in numerical order) will be shown on the screen. 3. Click ENTER when the desired Macro is displayed on the screen. Now you can start filling in empty macro fields. Tips for Viewing Macro When You're Looking for a Specific Macro, Remember That: Entering Macro Numbers or Keystroke I'm On The Screen Creation messages, the screen will look like the next figure. In this example, the first two Macro lines appear on the screen. You can insert text into the dotted line of space, but the text in front of the lines, as an example: target field, can not be changed. User Guide 17 18 ENTER MACRO NUMBER (0-63): 3 USE/- FOR VIEW MACROS. KM DESTINATION TRAVEL START: When using the keys I and to see Macro available on, 0 Room Macro can also appear on the screen. Because it's used for free-form messages, Macro won't be available for this. How to fill in the empty Macro fields When the desired Macro appears on the screen and the ENTER key is pressed, the cursor moves to the first empty field of this Macro. NOTE: Some Macros may already be fully populated. You won't be able to add any information to these macros, you can only select them (with the number or with me and the keys) and send them. Macro's empty fields must now be filled. To do this, do the following: 1. Use the letter keys and keyboard numbers to fill the Macro response fields. Use the arrows and move the cursor in the field. The number of broken lines in the field indicates the maximum number of characters it can have. If you try to type more letters than the box allows, the extra letters are ignored and the Terminal will play two beeps. If this happens, you will have to press the DEL key to remove unnecessary letters from that area before you turn on others. 2. Click ENTER or arrows or change the box in Macro. Tips to fill Macro To fill Macro fields, remember that: Some macro lines may have more than one field to fill. Click ENTER to go from one field to the next or from one line to another. The macro can be up to 50 rows in size. As the large macro fields (above 4 rows) fill in, the first lines will appear at the top of the screen, 18 to 19, to make room for the last lines. When this happens, the arrow appears in the upper left left to the left to the left of the screen, indicating that part of the message is not visible. You can stop using Macro and choose another one at any time, but the information typed in the first message will be lost as soon as you change the macro. To do the following: 1. Tap the arrow until the cursor appears in FIELD ENTER THE MACRO NUMBER (0-63). 2. Click K and or enter another Macro number to view other messages. 3. Click and start filling the fields of this new Macro. How to fix errors in Macro Text If you want to send Macro to a traffic operator, review the text and fix what you need. It's easy to fix errors in Macro. To do this, just do 1. Use the arrows to move the cursor (symbol) to a position where a correction is required. The arrows and cursor of the field move in a field or a line in a message; arrows and move the cursor in the field. The ENTER key can also be used to switch from one field to another. 2. To remove one or more letters from the field, use the arrows to spread the cursor to the right of the letter (s) that will be removed and press the DEL key (once for each letter to be removed). NOTE: If the letter that needs to be erased is at the end of the field, place the cursor on top of the letter and press the DEL key. 3. To include one or more letters in the box, use the arrows and place the cursor in a position where the letter (s) should be included and enter the necessary text. The terminal will play two beeps when you try to turn on more letters than the maximum field size. If you want to include other letters, remove some of those that already exist (with the DEL key). 4. When the text is ready and corrected, you can send it to the traffic operator. User guide 19 20 3.4 How to send a message to the traffic operator after text, the message can be sent. To do this: 1. Click SEND MSG while the message you've created is on display. This will result in the message screen appearing on the screen, as shown below: TECL S - SEND THE MESSAGE. ETECL N - DON'T SEND A MESSAGE. ETECL I - SEND AN IMPORTANT MESSAGE. NOTE: Some traffic operators may disable the Important Message option. If this was done in the system, only the first two lines of the screen shown above will appear on the display. 2. Choose from three options shown on the message message screen: Click S to send a message. After the S key is pressed, the QUEUE RETURN MESSAGE warning will appear in the Terminal within a few seconds. This message confirms that the S key has been clicked and tells you that the message has been saved for transmission. Shortly after this confirmation, the status screen will appear on the display, and the number shown next to the MSGS SEND field will increase to indicate that another message is waiting to be sent. Once you've pressed the S button, you won't be able to undo the message. Click N to avoid sending a message. When you press the N key, the chosen message will reappear on the Terminal screen. You can make adjustments to the text, or simply go to another function and completely cancel the message. The message will be remembered, so you can go back to it. Click on me to send a message to the traffic operator as an important message. This type of message will be sent to those who are already in line for transmission to the traffic operator; They will also be shipped faster. After I press, the WARNING IMPORTANT MESSAGE IN LINE will appear on your Terminal for approximately 20 21. This message confirms that the I key has been clicked and informs you that an important message has been saved for transmission. Shortly after this confirmation, a state screen will appear on the

display, and the number shown next to the MSGS TO SEND box will increase to indicate that an important message is waiting to be sent. 3.5 How to respond to incoming messages to respond to an incoming message, you must use the REPLY key to respond to a message to appear on the screen. This is important for the following reasons: the traffic operator will automatically know which message it is responding to. For example, if you answer Yes to a message, a traffic operator can check which message is relevant to the response. A message sent by a traffic operator may be Macro, which has a connected return macro for a response. In this case, you will know the macro return level associated with the Macro received. Thus, pressing the REPLY button will automatically show you the correct response macro (which is not required if you want to send another message to the traffic operator). This option will only work if you click the REPLY key after viewing the message you receive on the screen. To respond to a message received from a traffic operator, do the following: 1. Click PREVIOUS READ or READ PROXIMA to see the message received from the traffic operator. 2. Click ANSWER. This will result in the message creation screen appearing on the display, as shown below: ENTER THE MACRO NUMBER (0-63): - USE / - TO SEE MACROS. 3. If the message received from the traffic operator is associated with Macro, this Macro will automatically appear on the Terminal display. When this happens, do the following: User Guide 21 22 a) If this Macro is the one you want to fill in and send the traffic operator back, press the ENTER and start filling the macro as seen earlier in this chapter. b) If this Macro isn't the one you want the answer to, type in the I and K keys to find the right Macro, or enter the macro number. When you find it, click THE ENTER. The RESPONDER key works in the same way as the CREATE MESSAGE key, except for two additional features. When you read a message that has already been sent earlier with the REPLY key, the message number of the traffic operator you responded to will be displayed on the screen. When you press the RESPOND, the return-bound Return Macro is automatically displayed on the screen to fill. Now, if the REPLY key is pressed without a message from the traffic operator on the screen, or the message received has no reverse associated macro, the display will not display Macro and the message creation screen will appear. If you press THE REPLY to start the response, and then press the PREVIOUS READ, the message to which the answer will be answered will appear on the How to view a message you received from a traffic operator when you create a message in response to a message you received from a traffic operator, you may need to view the message you received. Here's how to do this: 1. Click PREVIOUS READ. This will result in the message being replaced on the screen by a message received from a traffic operator previously viewed with the RESPONDER key. 2. When you check the traffic operator's message and continue to create a reply message, click REPLY. This will result in the continuation screen of the message being created, shown below. This screen gives two options and still shows the first line of message being created. 22 23 ET END S CONTINUE THE PREVIOUS TECL N POST TO CREATE A NEW MESSAGE I AM IN DESTINATION 3. Choose from two options on the message continuation screen. Options: Click S to continue creating a reply message. When you press S, the message you created before you pressed THE PREVIOUS LER will appear on the screen just like you used to. The cursor will also be in the position in which it was before you click PREVIOUS READ, so you can continue to create a response exactly from where you left off. Click N to start a new response message. When the N key is pressed, the message creation screen is displayed, and if the traffic operator's message is linked to Return Macro, the macro will also be shown. You can then create a new response message to send to the traffic operator. NOTE: When you press the N key, everything you previously withered in the response message will be lost. So it's a way to undo a message that you created before you send it to a traffic operator. When the REPLY pressed to start responding to a specific message received from a traffic operator, the response message will have a number in the header (the first line of the message) when it is visible on the previous READ and READ PROXIMA keys screen. For example, a message sent in response to another message received from a traffic operator will be shown as in the image below: ENV #27 (13) A 26/6/:25 G-3 I AM IN DESTINATION As seen in the picture above, the message number that was answered appears in brackets in the message title. This number indicates that this message was sent in response to a specific user manual message 23 24 related to the number shown. Picture 27 was sent in response to an earlier message 13. NOTE: If message 13 has been deleted, the response message number will not appear on the screen shown in the previous image. 4. OPTIONS SCREENS THIS chapter describes the main screens of options. The most commonly used option screen is information Other screen options are used to help the vehicle driver and motion operator diagnose problems that may arise No. 4.1 Information screen, as shown below, shows several characteristics of the equipment, and the following fields can be highlighted: USE () TO SEE ANT SCREEN. (MAIL.) UNIT ADDRESS: GROUP ADDRESS: , 0, 0, 0, 0, 0, 0 USE () TO SEE THE ANT SCREEN. (MAIL.) MODE: ADMISSION M0: 17 M1: 1 M2: 4000 M3: 0445 M4: 0662 M5: 298 M6: 9999 M7: 8 M8: 7846 M9: 160 USE () TO VIEW ANT SCREEN. (MAIL.) VERSA INFO (SW:HW) ODU 604:00K 1838: 1563, 01 B00 DU : VMU NA:NA 24 25 UNIT ADDRESS: Device Address - your inbox. This allows the traffic operator to send messages to the vehicle. The traffic operator can ask the driver of the vehicle this number. If you change it, the new one will show a different address. GROUP ADDRESSES: Part of the screen for group addresses shows the group number (or address) of the fleet. It can still show the number of other groups of which it is also a member. These numbers are used by the traffic operator to communicate with the fleet. DIAGNOSTIC PARAMETERS, M0 To M9: Represents 10 (ten) diagnostic fields specified by M0 to M9 codes. The information contained in these areas can help you find problems. For example, if a satellite cannot be found for a long period of time (no SIGNAL light will be illuminated), the motion operator may ask which number appears in the M4 field to try to determine the cause of the problem. In the M4 diagnostic field picture, versaO INFO (SW:HW) is shown in this area. In the picture, the software version is the GPS Position Screen if the key is pressed from the information screen of the GPS position screen will be shown AS shown below: POSICAO GPS STATUS: GOOD ULTIMA TIME POS.: 10:45:52 G-3 LAT: 16 47'21.4S LONG: '13.3W ALT: 1052M (Tecl e D p/diagnostivo) This screen displays GPS information. Highlight the CURRENT STATUS field, which can take on the following values: GOOD: Indicates that GPS provides a position for the usual, every 5 seconds. S/SATEL: Indicates that GPS has not yet selected satellites to guide user 25 26 to calculate placement and dispatch. S/DADOS: Indicates that although GPS is active, it has not yet received reliable position information. 5. The chart below shows in general how it is installed in the vehicle. NOTE: Installation, removal, technical assistance, and any services related to the product must be made at one of the companies listed on the site taking into account the high-tech equipment and complexity. The antenna requires an unobsd signal from the communications satellite to send and receive messages perfectly. The location of the antenna vary depending on the type of vehicle as well as the body type of work. Where the vehicle has an airfield, the antenna must be placed in front of the device, so that the antenna has the greatest accessibility for communication. 26 27 The user should be aware when installing any other accessory in the vehicle such as sound equipment, air conditioning, in particular, preventing installation, in any circumstances having any contact with the product, not allowing the removal or movement of the product, even if temporary, in addition to cutting wires and cables or any other behavior that may affect the product performance, even if temporarily. 6. GUARANTEE AUTOTRAC COM'RICIO E TELECOMUNICA'ES LTDA. guarantees the product for twelve (12) months, is counted from issuing an invoice for the sale of equipment, from manufacturing and assembly defects that make it unusable or unusable. The warranty is made by displaying the invoice for the sale of equipment. To take advantage of the warranty, the customer must use one of the authorized companies mentioned on the Website Exception and termination of the Guarantee guarantee excludes defects caused by electricity problems and extinguished in the case of the following situations: Misuse of the product; Installation, removal or technical assistance not performed in authorized companies associated with the website If the product is open, regulated or repaired by persons not authorized by AUTOTRAC; If the product or its accessories are for any reason removed or replaced by a person (s) not authorized by AUTOTRAC, or if there is any interference in the installation; If the original seals are broken; If the product is used with software that has not been delivered or approved by AUTOTRAC. User guide 27 28 7. OBC ACCESSORIES - OBC is a desktop computer with automotive features designed with electronic circuits of the latest technology and high performance. It has records that are constantly monitored and that are checked for violations or if the values previously programmed by the client exceed the limits. If this happens, messages can be generated by the customer, through, informing of the breach occurred, and local alarms can be caused through their exits. OBC also has a number of accessories and peripherals that can be purchased separately on our authorized network, such as the following: Door Lock: Through this accessory you can lock the vehicle's loading doors; Mechanical locking of the vehicle: allows you to block the vehicle without endangering its driving. It acts on the vehicle gradually reducing its speed through the lock valve (reduces the flow of fuel). SFI - Independent braking system: SFI is a system capable of preventing or gradually reducing vehicles equipped with pneumatic brakes. Immobiliser Trailer: - It's This on the pneumatic circuit of the trailers and acts directly on the stationary brake. If the mechanical horse is dislocated, the trailer is immediately immobilized, locking the wheels, making it impossible tow another vehicle. CoDE - Electronic Travel Control: CoDE is installed on the fifth normal wheel of a mechanical horse. With this device, you can block it, thereby preventing the ride and hitch of any trailer. Travel Sensor: This accessory allows you to control the ride between the trailer and the mechanical horse. It can be used to find out when the trolley has been disconnected from the horse, and allows you to associate local actions whenever an unauthorized ride occurs; 28 29 Temperature Sensor: Constantly reads the temperature of the compartment where it is installed; Rain sensor: This accessory detects the activation of wipers at its many speeds and times and aper activation. Pager Pager is a radio transmitter that is activated whenever important or persistent important or emergency priority messages are received. When this happens, a warning is sent to the pager, which is a beep that will stop only when the message is read in the Terminal. The O printer has a printer output that can be used when printing free messages and sending and returning macros. It communicates with any type and brand of printer, which increases its power compatibility, as long as it has a serial input and its transmission speed of 9600 bps. Installation, removal, technical assistance, and any product-related service must be provided by one of the authorized companies, taking into account the high-tech equipment and complexity. Services performed in conditions not specified in this guide, in addition to the loss of warranty, can endanger the work and cause risks to the life, health and safety of the user. AUTOTRAC is not responsible for the risks associated with the installation, removal, relocation, movement or any other interference with equipment or its components and accessories made by individuals, users of Guide 29 30 individuals or entities, foreign companies authorized by Autotrac. See our authorized network at 9. ANATEL HOMOLOGATION Communications Antenna (Model 10-J1462) is approved by Anatel, in accordance with procedures regulated by Regulation 242/2000 and meets applicable technical requirements (01) For more information on the approval of this product, contact the anatel Electrical System website INSTALLATION REQUIREMENTS Electric vehicle system, especially the battery and alternator, must be in line with the electrical consumption of the installation equipment. The battery and alternator must generate sufficient charging to install the OBC and (about 24A) The alternator and voltage regulator has to charge between 13.6 to 14.4 Volts on 12 Volts and 27.2 voltvehicles on 24 Volt cars. Speedometer cables and/or speedometer circuits should be in good condition and fully operational. Fuel pipelines, hoses and reverse valves should be in good condition. Mechanics, bodywork and other recommendations 30 31 To install locks, chest doors should have good storage conditions, without gaps or bends, so that the assembly of the lock can work freely without mechanical effort. In the case of a body or tank trailer that carries chemicals or flammable strains, the tank must evaporate before installation, and evidence of the service must be presented to the person in charge of the technical assistance area of the authorized installation site. By purchasing Hitch/Trip Sensor Set Horse/Trailer, Immobilizer or Door Lock for the trailer, the trailer must be redirected to the commissioner on the same day after the devices are installed on a mechanical horse. Cleaning and maintenance for washing the antenna is recommended to use only a neutral detergent. Misuse of chemicals will cause irreversible damage to the product and cannot be replaced under warranty. If you are unsure that cleaning chemicals can cause potential problems in the antenna, it is recommended to avoid contact the dome with the products. The lid should be used on the antenna when washing the vehicle. User Guide 31 31

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