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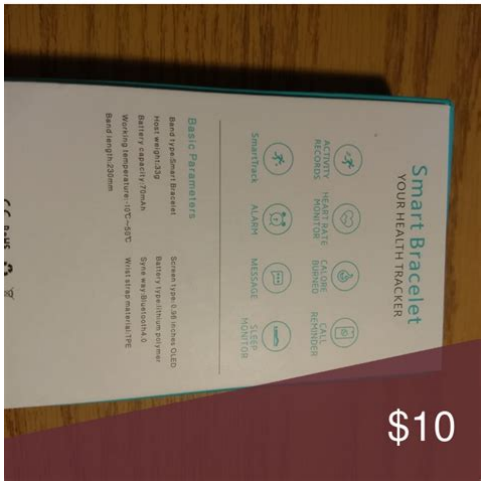

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Book Descriptions:

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Preliminary Version Not for Distribution. Firmware version 1.1 Last Update Deember 2008 Preliminary Version Not for Distribution. Firmware version 1.1 Last.In addition the module allows remote control of some vehicle functions including shutdown. Use of these functions must be done with extreme caution and only after carefully considering the vehicle environment. In some cases, remote activation of these features of the vehicle may bring risks not only for the occupants of the vehicle but also for other vehicles in the vicinity. CAUTION It is highly recommended that the user do NOT activate any remote feature of the module unless it can be absolutely assured that the activation will be safe. The maker, and installer of this module take no responsibility for the owner of the modules failure to operate it safely. If in doubt about safe operation, the owner should contact local authorities for guidance. It makes tracking one or more vehicles extremely easy.. With this system users can track vehicles by GPRS, CSD and DTMF or with a computer in the vehicle. 1.1. Many of the features of the T3 module are unique You control all tracking of your vehicles The maps of cities and highways are installed on your computer. Direct connection between the module and your computer. The vector maps are displayed on the screen quickly. Display and control happen in real time. Data logger capable of storing more than 500,000 points. Fast search of names of streets and avenues near the vehicle. Upgrade the maps and software over the Internet. Protocol web open to anyone develop their own tracking site. 1.2. System is indicated for people and companies that. Want to track your vehicle on your own. Have notions of use of the computer. They want the economy to maintain the system for tracking. They want realtime monitor its fleet of cars, buses, trucks, boats, etc. Searching for a modern and reliable system of tracking 1.3.http://www.cherednik.com/images/corvette-1966-82-shop-manual.xml

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O it is necessary to track your vehicle T3 module installed in the vehicle with a chip GSM enabled. Computer connected to the Internet. Advisable to broadband. Professional allows the simultaneous tracking of multiple vehicles by GPRS and detailed reports on where the vehicle passed. To purchase a license, contact your dealer directly. 4 2. How It Works The GPS satellites I send the signals from the GPS global positioning II module of T3 III. The GSM antenna IV for transmitting data via GPRS GSM operator that passes for the Internet or directly to the modem GSM VII by CSD. Another option is to relay data to conventional modem V via DTMF connected to telephone lines. Module offers three ways to track your vehicle 2.1. Data connection for GPRS It is very likely that you use only the tracking by GPRS. It is cheaper and more stable than the CSD and DTMF, but depends on an Internet connection to work. 2.2. Connecting the data by CSD The CSD is a connection option more than the module offers the user for tracking in real time, but should be used only in special cases. The pricing is done by only a few minutes and GSM operators offer this service. Requires a mobile phone with builtin modem connected to your computer. 2.3. Connection by DTMF tones You can send commands to the module directly from a standard telephone or a cell phone. Additionally, you can do the screening for DTMF tones provided that you use a modem standard Class 8 connected to the telephone line. The tracking of DTMF tones is used only in emergencies when GPRS and CSD are not available. The installation of the service module should be made only by companies specialized in installation of automotive trackers. 7 3.3. Diesel vehicles Attention the diagram in the figure may have suggested changes in accordance with the brand and model of vehicle. To interrupt higher loads, use an external auxiliary relay as the diagram on the side.http://dezmaster.com/userfiles/corvette-4+3-speed-manual.xml

The relay should help work off, closing the circuit through the normally closed terminal. Under no circumstances use different solution shown to the side. 3.5. Fuse protection The internal relays 1 and 3 already have minifuses for protection of 15 and 10 amps respectively. 9 3.6. Positions of Antennas The picture alongside shows the correct placement of antennas. Both can be installed under the plastic surfaces, but can not be installed underneath the metal surfaces. Also avoid installing the antennas under glass with reflective film. Keep the antenna GSM as possible away from the GPS antenna. The GSM antenna transmits the positions opposite to the adhesive. In most cases the setting is made with the application of a thin layer of silicone adhesive by the side of the antenna. The angle of installation of the GSM antenna can vary from 0 to 90 degrees. Do not fix the GSM antenna directly into metal surfaces of the vehicle. Look retain it in plastic or glass surfaces that do not interfere with the transmission embedded connected to the computer. The GPS antenna receives the signals from satellites by oppositebased magnetic and should always be installed lying down, with an angle less than 30 to enable maximum reception of satellites. To access it, open the program and press F9 Wait for the program to detect the external IP router and press the test button. If the door is open a window that displays the port is OK. If the message Communication Aborted appears, the door is closed and will be opened internally or routed in the network server. The technician should create a rule or a NAT Port Fowarding redirecting all that reach 56,000 by the port in the TCP protocol to the internal IP address of the machine where you installed the program. The Professional version that allows the simultaneous tracking of more than two vehicles and detailed reports, can be ordered from the retailers T3 module.

The first step after installing the Limited Edition version or the Professional version, the program is set to local time. Click the tab units. Set the time difference from Brazil to3.00h if it is normal and in2.00h if daylight saving time. Press OK. 13 5.2. Creating a list of Telephones The first step before doing the crawl is to create the list with the numbers of the chips installed in modules for each vehicle. Then type a name for the connection, the phone number, password, and serial number of the Tracker Module. To add data to the list of phones, press Add. For the data making any changes to the phonebook, you press the Modify button after making changes in fields No changes will be recorded if the Modify button is not pressed. To delete a record, select it from the list of phones and press the Delete button. Options Icons Event Press the buttons of icons to choose the icons that are shown on the screen when the vehicle is being screened. You can set an icon for special events of ignition, sensor 1 to sensor 2. When the ignition is turned on or one of the sensors is activated, the icon will appear on the screen instead of the default icon. 14 6. Setting the Module The module has three LEDs on the front with the following Memory indicates access to main memory of the module. GPS indicates that the GPS receiver is connected and receiving data from positioning satellites. GSM ndicates that the internal GSM modem was recognized by the GSM operator and is in operation. Serial Port The serial port allows the connection of the module to the computer via serial cable, so do the initial settings, the download and upload data stored on the module and realtime navigation with a laptop connected. The speed of communication standard is 115,200 bps. You can also, through the HyperTerminal program settings avancandas hold of the module. For details, see the Advanced Configuration Commands topic in this guide.

RelaysThe module has four relays reversible fully configurable contact that are designed to work remotely on the vehicle. Sensors The module has two input sensors that are activated when they receive positive tension. The panic button is connected to the sensor 1 and the positive, taking the extra function to disable the relays remain pressured by more than 6 seconds. Connect the GSM antenna. Connect the serial cable to the module and the computer. Attach the whip for connection. GSM wait for the green light is flashing. If you do not blink, probably the chip is protected with PIN code. Please note that under nigger will be identified and the T3 version. Having problem check the

serial port selected, if the tracker is connected and that the serial cable is connected correctly. In the window that Direct Cable Connection tab select the chip and make settings according to your carrier APN BrasilTelecom Usuario Senha brt.br brt brt Claro claro.com.br claro claro CTBC wap.ctbc.br gprs.oi.com.br oi oi sercomtel.com.br sercomtel sercomtel tim.br tim tim gprs.telemigcelular.com.br celular celular zap.vivo.com.br vivo vivo Oi Sercomtel Tim Telemig Celular Vivo Click the Send button after you made the changes. PIN code The PIN code is an optional feature that has GSM chip to protect it from abuse. If this feature is enabled on the chip, you need to tell the code T3 module for the GSM is enabled. Check the option Use with Chip and PIN enabled enter the 4digit PIN code. Press the button SMS. Choose the serial port where the GSM modem is connected and click on the vehicle on the list To open the Configuration tab GPRS, press the button Set the APN, User and Password and press the Send button located next to the SMS boxes of configuration. 18 6.3. General Settings Data logger The rate of acquisition in seconds is the frequency with which the GPS data are recorded in the memory of the Data Logger.

The mode of Automatic Data logger is the recommended setting, because it allows the GPS control of the registry data. If the option is enabled by the sensor checked, the Data Logger be controlled by Sensor2. The Delete button will erase all memory and the memory zero the pointers tracker Data Logger. Points of interest are not deleted. Password Use the Change Password button to change the password of six digits. The factory default password is 123456. Transmission rate in realtime navigation Sets the frequency with which data is sent to the program when it is in TrackMaker GPS navigation in real time RTN. To configure them, click the Setup tab. Send SMS to be triggered Send an SMS to a list of phone numbers registered. Disconnect relays are activated by 5 seconds This option allows the panic button has a function of extra shutdown of relays and activation of the vehicle in an emergency. Just press it for more than 5 seconds to turn off all relays and reactivate the vehicle. This is useful when you want to enable the vehicle on the spot, without being connected to the module. There must be checked if the panic button is not used near the sensor 1. Enable data logger datalogger allows dial in the positions where the sensor was activated or even connect the data logger if the Sensor Enabled by the Settings tab is checked. To register the settings, press the Send button. To register them, click the tab in the box and SMS Set SMS. The numbers of the phones to be separated by commas. Enter before the number, the country code and area code where the number is registered. For sending SMS, the code is not used for longdistance carrier. The code of Brazil is 0055. As a security measure, the module limits the maximum number of SMS sent per day. The factory default value is 25 but can be modified The messages can contain up to 140 letters. You can insert labels tags that are replaced by the module with values of latitude, longitude, time, etc.

For a complete list of tags, see list of labels tags module available in T3. Use the Send button to record the changes in module 21 6.6. Description of the General Command Window Description Buttons and Boxes Settings Data Logger Download settings module. Shows the status of the pointer from the memory of the Data Logger and presents options for download by registered last points or by date range. Buttons for actions on the relays of the module. The box on the left side must be marked to show the relays. Relays Safe Stop allows shutdown in stages first the vehicle failed three times at predetermined periods with sirens and warning lights on. Then turn off the engine on an ongoing basis. Top Car Turn off all relays and reactive the vehicle. Points of Interest Call GPS and Buzzer Allows download Points of Interest to the module. When the vehicle approaching from the coordinates of the point, the module triggers the sound of the buzzer. For details, see the topic Setting Points of Interest. This is an exclusivity of the module T3, allowing tracking in real time with transmission rates of up to 1 second, quick update on the screen and ability to send commands to

the module so immediate. To do the tracking module T3 point to point using GPRS technology, you must send the IP address and port of the computer connected to the Internet. The sending of the IP address and port can be done in several ways. The activation by SMS and manual activation by the dial tone of a conventional fixed phone is the most efficient ways to start the crawl GPRS point to point. Below the modes of activation in order of efficiency Automatic activation by SMS It is the most efficient way to activate the GPRS tracking. You must have a GSM mobile phone with embedded modem connected to your computer. Once the module receives the instructions of the activation of dial tones, the connection is interrupted and the vehicle appears on screen in real time by 30 seconds.

You can also use a wireless phone to conduct the call. Automatic activation of tones via modem This is an option not widely used. If not successful, the connection is finalized. To restore the connection in this period, just open the window again GPRS. Example of Activation of GPRS Tracking by SMS Connect the GSM phone with embedded modem to the computer. The connection may be serial cable, USB cable or Bluetooth. You can also press the button The GPRS button changes to green to yellow if the GPRS connection is open. Indicates GPRS connection closed. Shows open GPRS connection with GPRS window visible or hidden. Make sure you are connected to the Internet. The window will show GPRS connection to your IP. If an IP is presented in an internal network, press Capture External IP. Visit the Technical Support section www.gpstm.com.br site for information on how to unlock the door 56000. 24 Press the button and fill SMS data Name, Phone, Password and Serial Number as the figure below Press the Add button to add the vehicle to the list. This procedure should be done only once for each vehicle. Once registered, simply click on the vehicle from the list to make the connection. Choose the serial port where the GSM cell phone is connected. Press the Send button and wait for SMS GPRS connection. If the GSM operator to offer the service for sending SMS via the Internet, click the Connection Manual for activation of the sentence that should be pasted in the message body. The message should be sent to the module T3 directly from the operators website. Hint If the phone number is used only for sending SMS, do not place the code of longdistance carrier. Indicate the number just before the country code and area code where the number is registered. The GPRS connection window will show your current IP. Press the button of the window shades GPRS connection. Click on the vehicle you want to track or create a new vehicle pressing the Add button.

Click on Connection Manual Follow the instructions given by the program by typing the number and waiting for the answer module. Slowly enter your password. The factorydefault password is 123456 Wait for the return module three tones indicating that the password has been received successfully. If you return two tones, enter the password again. Are allowed up to three attempts. If you miss a password, enter it again. Wait for the return module three tones indicating that the command was received. Once the module receives the correct sequence, the connection will be terminated automatically and the module will begin GPRS connection. Important When you make a call to send commands to dial tone for, the module sends the following sound Two Tone indicates that the module is waiting for the command tones. Below the steps to configure the T3 Start a connection point to point or connect the cable module. Open the Tools tab and click the IP. Check the box next to Configure IP and Activation Manual. No campo IP, digite a URL de redirecionamento. In the IP field, type the URL to redirect. Press the Send button to finish configuration. Dial for the module, using any phone. Wait for the return module three tones indicating that the password has been received successfully. The connection will be completed and start the module GPRS connection point to point. 27 7.3. Point to Point Tracking Enabled by Ignition The point to point tracking enabled by the ignition is used mainly by companies with multiple vehicles wishing to view them in real time

once the vehicle is connected. Then click the button identify. Configuring the module via GPRS Enable the GPRS connection point to point. Once the vehicle appear in the list of GPRS window, click on Tools. In the windows configuration module, select the option Configure IP and Automatic Activation by Ignition. Set the IP and port and press the Send button.

If the vehicle is connected to the ignition, it will appear on the screen of the program in real time. Practice has shown that users with large numbers of vehicles prefer to create custom tracking websites for their needs instead of using the screening point to point enabled by the ignition. 8. Opening the Real Time Navigation 28 Once the GPRS connection is established with the module, the vehicle will appear in the window and a GPRS icon is shown on the map. To do this, press Remember that the photos may not be new and may not show the real situation of the region where the vehicle is at that moment. To drag the screen, click the right mouse button and drag it on the screen. Click once with the left button on the screen to exit the mode of drag. To exit the navigation in real time, press the ESC key on the keyboard. In realtime navigation mode, the vehicle sends its position every 3 seconds. 30 9. Realtime navigation Cable You can use the T3 as a GPS module connected to the normal computer, allowing out with a laptop inside the vehicle with the maps on the screen. Follow the instructions below to enable the Real Time Navigation cable Connect the serial cable to the module and the notebook. Press the button and wait identify the recognition of the module. Press the button RTN RealTime Navigation to start browsing. 31 10. Description of Window GPRS Buttons and Boxes Tones SMS Tools RTN Disconnect Transmission Rate Packages Screen Counters List of Vehicles IP Capturing External IP Modify Port Hide Window to connect Delete Vehicles disconnected Hide Close Description Open the window of the interface of DTMF tones to enable GPRS. Open the window of the interface of SMS torpedoes to enable the GPRS connection. Open the windows configuration module. Opens the Panel of Navigation in Real Time. Closing the link for data transmission with the module selected in the list of vehicles.

It establishes the frequency with which the messages of positioning or packages are transmitted by the module. Identification of packages received from the module. Down the refresh rate of the data presented in the window in normal mode. The Reset button Zera a count of traffic data presented at the bottom of the window GPRS. Display the list of all vehicles screened at the time. Displays the IP address of the computer. If the computer is part of an internal network, it is necessary to capture the external IP so that the module can connect to the computer. Default port 56000. Only modify this parameter if there is conflict with other programs installed on your computer. Hides the window all the GPRS time a new vehicle connects to the computer. This clears the icon on the screen of the vehicle if the GPRS connection is lost. Hides the window GPRS, while the screening of the module. Interrupts the transmission of data link with the module. In screening for dynamic IP, the module will continue trying to connect for another 3 minutes. Look always end all connections before closing the window GPRS. Tracking by GPRS Website The tracking website must be configured for only by developers who want to keep pages with tracking data provided by the module T3. Configuration is done by Website tab of the windows configuration module. 32 11. Tracking by GPRS Website The tracking website must be configured for only by developers who want to keep pages with tracking data provided by the module T3. Configuration is done by Website tab of the windows configuration module. Setting Up Website Check the option to Set up Website Tracking Check Enabled Website Choose the rate of transmission in seconds and press the Send button The Server field should contain only the primary address without supplements. Use the list box to insert the data to be sent to the page.

The configuration of this erroneous action may undermine the crawl, causing pooroperation of the module and possibly increase the value of the account with the GSM operator. 34 12. Tracking by CSD and DTMF Tones 12.1. Tracking CSD GPRS is currently the most attractive and shows that the CSD due to have much lower costs and a great sign of stability. In practice, few operators offer a

reliable service CSD. Chips use the same carrier in both telephone connected to the computer as the module T3. Only one vehicle at a time can be screened by CSD. Follow the steps below to activate the connection CSD Connect the mobile phone GSM or GSM modem to the computer. Choose the communication port that your phone or GSM modem is connected. Click on the vehicle you want to crawl. Dial Press. If the carrier to allow the GSM CSD connection, in a few seconds of data will be a link between the computer and module T3. The program comes in the way Navigation Realtime, showing the vehicle on the screen. 12.2. Tracking by DTMF Tones Just as the CSD, it is unlikely that you use the crawl DTMF. This is only an emergency mode to get the position of the vehicle through the voice channel of GSM. You must use a modem connected to the conventional Class 8 fixed telephone line. Pricing is by time, as a link to the voice phone to cell phone. Each position of the vehicle is sent to 30 in 30 seconds and only some features are enabled, such as the command to turn on and off relays. The steps to connect are Make sure the modem is connected to the telephone line. Choose the communication port that the modem is connected. Click on the vehicle you want to crawl. Dial Press. In a link up to a minute of data by the GSM voice channel will be established between the computer and module T3. The program comes in the way Navigation Realtime, showing the vehicle on the screen every 30 seconds. 35 13.

By sending commands from Dial Tones You can control the module through any cell phone or through the dial tone DTMF. To send the commands, follow the sequence below Dial the number of GSM chip in the module. Wait for the answer module. You hear a sequence of two tones. Enter the password of 6 numbers. If the password is correct, you will hear three tones. If youre wrong, you will hear two tones. Once the password is entered correctly, the module will be able to receive the commands below. A sequence of three tones will be heard when a command is sent successfully. Attention if the DTMF commands are sent from a GSM phone, the tones are usually generated by the local GSM operator and not the phone itself. In some cases, the local operator can generate different shades of the standard recognized by the module T3. Press the number of the chip module and wait for the ansodule Slowly enter your password. The factory default password is 123456th Wait for the return module three tones indicating that the password has been received successfully. Immediately the module opens the channel for voice. Hint the connectors on the microphone and headset module of T3 are stereo, compatible with standard headphones and microphones used on computers with sound card. Once the 500,000 points are completed, the module begins to delete the first points recorded. Thus, you can always download the latest registered 500,000 points. To download the historic journey by car, follow the steps below Connect to the module by GPRS, CSD or via the serial cable. On the Tools window and press the Settings button or identify if you are using the cable. In the Data Logger option, you can choose to download the last points recorded or download by dates. If you want to see the point of stopping the vehicle with the engine running, such as stops at traffic lights, check the option to register points Parada. Press the Download button to download the data.

The points of stopping as Waypoints are downloaded in the field and have Comment indication of the time of the parade. The path traveled by the vehicle is lowered as Tracks. Each time the vehicles ignition is turned off and on again, a new trail of different color is created. Thus, it is possible to identify the graphics all the points where the vehicle was stopped or turned off. 39 15. Setting Points of Interest Points of Interest or POIs are points recorded in the memory module T3 that trigger the buzzer when the vehicle is approaching the coordinates where it was marked. Are useful to warn the driver to dangerous points of the road, darkness, spring breakers, bridges and other points of special interest. The other icons the buzzer sounded when the vehicle is approaching in any direction. 15.3. Icon sending SMS Use the Mail icon when you want to send an SMS once the vehicle is approaching the point of interest. To identify the POI, use the tag with the identification number of the point. To configure the message being sent, select the SMS tab within the window and click Tools within the POI within the message box. The tag in the message will be replaced by the identification number of the point that the message is sent. 41 15.4. Etiquetas Configuration tags

Labels configuration determine the behavior of the module to get close to the point. They should be inserted in the Comment field of Waypoint. Maximum speed ou Determines the speed limit in kilometers or miles per hour from the point. If the vehicle is below this speed, the buzzer did not play. If youre up, the buzzer will ring soon. If the maximum speed is not specified or have zero value, the buzzer will ring as soon as the vehicle slowly approaching the POI, regardless of speed. Lightening detection ou Determines the size of the radius in meters or feet, where the buzzer starts playing. While the vehicle is within that radius, the buzzer will be playing.

Ex The buzzer will be playing while the vehicle is at a radius of 1,000 meters of the POI. If the radius of detection is not specified or have zero value, the module will determine the radius in accordance with the speed of the vehicle. The faster the vehicle is, the greater the range of detection. Open the configuration of the module and press Upload 16. The reports you can see data such as latitude and longitude, speed, date and time, name of the street or avenue, the name of the map and distance from the vehicle to the axis of the street or avenue. Click the button or press CTRL Y to open the spreadsheet data Choose the table or the Trail of Waypoints you want to generate the detailed report. Choose the maximum distance of search. The greater the distance will be more time to search the database of maps. Click the button or press F6 to start the search for addresses. 43 17. CONTROLS FOR ADVANCED SETUP Warning The following commands will be used only by advanced users or companies specializing in the installation of the module T3. The inappropriate use of some commands may cause badoperation of the module and increase the cost of the telephone account with the GSM operator. 17.1. Cable connection in the HyperTerminal Open the Windows HyperTerminal program and create a new connection. Choose a serial communication port available for connecting cable to the module T3. Set the door of communication with the following parameters a. 115200 b. 8 c. Nenhum d. 1 e. Hardware Press OK. Test the connection to see if the module is responding to commands. Enter at the command and press Enter. If the GSM chip is protected by the PIN number is necessary to inform the module that the correct number for the GSM is enabled. The module does not verify the PIN number on the first reading of the GSM chip. Thus only GSM chips with PIN disabled work in the module.