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Fuel Reformulator

See More at: bullydog.com

Doc.# BD40505 v1.0.0

For a full listing of Diagnostic Trouble Codes go to: www.bullydog.com/DTC.php $\,$



For Free Technical Support Call: 866-bullydog (866-285-5936)



INSTALLATION MANUAL



Triple Dog E3 for diesel Powered Applications
Part Number: 40505



UPDATING THE PRODUCT ONLINE

Always update your product before installing on a vehicle using the Update Agent internet update software. Get a free copy of the Update Agent online at bullydog.com. See the system requirements below for running the Update Agent on your PC. Sorry the Update Agent is not Mac compatible.

Hardware & Software requirements for the Update Agent include:

Windows™ XP, 2000, NT or Vista

Microsoft .Net framework version 2.0 re distributable package (x86)

64 MB minimum of RAM

200 MB free space on hard drive recommended

56 K minimum internet connection, DSL or cable connection strongly recommended

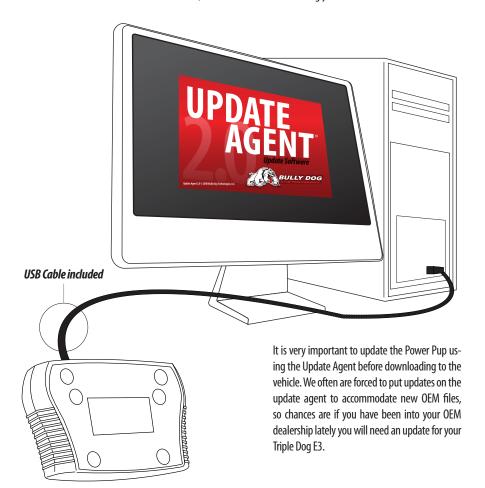


TABLE OF CONTENTS

INTRODUCTION	PG. 3
VEHICLE APPLICATIONS	PGS. 4-5
BILL OF MATERIALS	PG. 6
INSTALLATION PRECAUTIONS	PG. 7
FUSE INFORMATION	PG. 8
INSTALLATION INTRODUCTION	PG. 9
GETTING STARTED (STARTING THE DOWNLOADER/ NAVIGATION)	PG. 10
VEHICLE SELECTION SCREEN	PG. 11
MAIN MENU OPTIONS	PG. 12
- CHANGE VEHICLE	PG. 13
- INSTALLING THE DOWNLOAD/ DOWNLOAD FEATURES	PGS. 14-18
Downloader Flow Chart	pgs. 14-16
Engine Tune	pg. 17
Speed Limiter	pg. 17
Calibrate OEM Speedometer	Pg. 18
Changing download / Returning to stock SETTINGS	PG. 18
-OTHER OPTIONS	PG. 19
- SETTINGS MENU	PG. 20
UPDATE AGENT	PG. 21
TROUBLE SHOOTING / WARRANTY	PG 22

INTRODUCTION

Congratulations on purchasing the Triple Dog E3[™], our low cost solution to rising fuel prices. The Triple Dog E3 is designed to improve efficiency on your diesel powered vehicle. We achieve this by loading more efficient engine tuning software into the vehicles computer; we also include features that if used right can help save fuel like the speed limiter function. The result is a usable increase in horsepower and improved fuel economy. Triple Dog E3 also carries some special features like: Calibrating the OEM speedometer for larger aftermarket tires and reading and erasing Diagnostic Trouble Codes. Our rigorous development and testing processes ensures a quality product that produces positive results.

SEE OUR VEHICLE APPLICATION CHART ON THE NEXT PAGE TO IDENTIFY YOUR VEHICLE APPLICATION.

This product is extremely easy to install. All installation takes place inside the cab of the vehicle through the OBDII port. For installation questions or guidance contact your local dealer or distributor. You can also contact the Bully Dog tech support group Monday-Friday, 8am-5pm Mountain Standard Time.

Bully Dog Technical Support: (866) 285-5936.

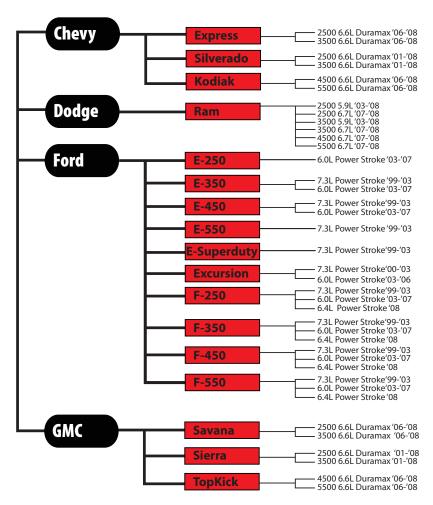
Installation of this product can take up to 60 minutes. We strongly suggest that installation of the Triple Dog E3™ be done when the vehicle is not in need of use. We highly recommend that this product be installed during normal business hours: 8am to 3pm Mountain Standard Time to avoid any inconveniences associated with installation issues. Installation of the program into the vehicle ECM is an easy but delicate process. The download process, if interrupted, can create issues which may add time to complete a successful install.

PRODUCT FEATURES

- Engine Tuning: one Tow/Economy tune.
- Adjust Speed limiter: This feature allows you to adjust the top speed that a vehicle is able to go, use this feature to lower a vehicles top speed and achieve better fuel economy.
- **Calibrate Speedometer (Tire Size):** Calibrate OEM speedometer for aftermarket tires and or wheels. This feature may not exist for all vehicles.
- Read and Erase Diagnostic Trouble Codes.
- DPF Burn off/ Mobile Desuit for 6.7L Dodge and 6.6L GM LMM with DPF.
- View Settings: Menu item that shows exactly how all of the features above are setup.

If your vehicle is not on this chart do not attempt installation of the Triple Dog Diesel without checking the Bully Dog web site at www.bullydog.com or calling our tech support line at (866) 285-5936.

Triple Dog E3 Diesel (part 40505) Applications



BILL OF MATERIALS

The list and diagram shown below includes all of the hard parts required for installation of the product on the vehicle, and updating the product online.



INSTALLATION PRECAUTIONS: (VERY IMPORTANT)

It is important to take some precautions before downloading, changing settings, or returning to stock. These precautionary steps to installing the Triple Dog E3™ will help ensure that downloads are successful.

- Before installation, always update the Triple Dog E3™ online using our Update Agent. The Triple Dog E3™ is an
 online program that loads the latest vehicle programs from our web site to the Triple Dog E3.
- 2. Only install during recommended install time. (Monday-Thursday 8am-3pm Mountain Standard Time)
- 3. Do not install while the vehicle is in a remote location or when the vehicle is immediately needed for transportation. In the unlikely event that installation fails, the installer may need resources such as computer access and internet access to complete installation.
- 4. Allow up to one hour for installation. The Triple Dog E3™ easily installs in under 30 minutes. However, allocate at least an hour for installation in case any problems are encountered during installation.
- Before installation, always make sure that the batteries have a full charge. It is even a good idea to have a battery charger nearby in case the batteries start draining. If the batteries loose their charge during a download, the download will fail.
- Before installation, turn off all electronics inside the vehicle including: headlights, heater, air conditioning, stereo, any DVD players, etc. Failing to turn off all electronics may can prevent a successful download.
- 7. Before installation always pull all of the recommended fuses seen in the section labeled "Fuse information," in this instruction manual.
- 8. During installation it is very important that the Triple Dog E3™ is not disrupted. If the download is disrupted the vehicle may not start and the download process must be restarted. In worst case scenarios the Triple Dog E3™ will have to perform a recovery process which adds even more time to the installation process.

The information above is extremely important to successful use of the Triple Dog E3

IMPORTANT

It is not recommended that this product be used in conjunction with any other electronic module or downloader that is intended to increase horsepower.

Performance products must always be removed before taking the vehicle in for any kind of service. The Bully Dog software will be lost if an OEM scan tool is used to reflash the engine computer.

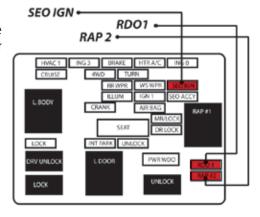
REMOVING FUSES FOR '01-'02 GM DURAMAX VEHICLES

IMPORTANT: Skip the steps on this page if your vehicle is not an '01-'02 GM 6.6L Duramax.

WARNING: Failure to remove the fuses while downloading the programs into the computer may result in computer hardware failure. After download is complete replace all fuese.

Note: Use your fuse puller included with your vehicle or a pair of needle nose pliers to pull the fuses.

- •'01-'02 Duramax: Refer to Figure 1 to see the fuses that must be removed prior to downloader installation.
 - SEO ING
 - RD01
 - RAP2



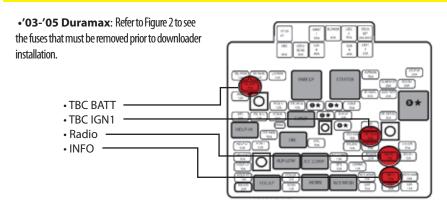


IMPORTANT: This fuse box is located inside the cab on the driver's side

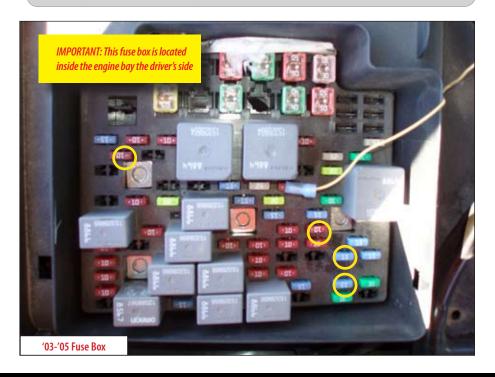
REMOVING FUSES FOR '03-'05 GM DURAMAX VEHICLES

IMPORTANT: Skip the steps on this page if your vehicle is not an '03-'05 GM 6.6L Duramax.

WARNING: Failure to remove the fuses while downloading the programs into the computer may result in computer hardware failure. After download is complete replace all fuese.



Note: Use your fuse puller included with your vehicle or a pair of needle nose pliers to pull the fuses.

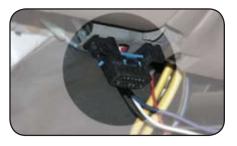


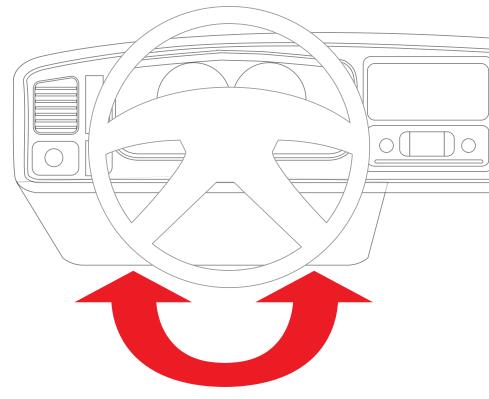
INSTALLATION INTRODUCTION/OBDII PORT

This is a very simple product to install and operate; all operations take place inside the cab of the vehicle with the Triple Dog E3™ hooked up to the OBDII port. Operating the Triple Dog E3™ does not require any

mechanical background. This product does not limit the amount of times that a download can be entered and removed from a vehicle, but it will only work on one vehicle at a time.

The diagram below illustrates the general location of the OBDII port on any of the vehicles listed in the vehicle application chart.





OBDII Port Location

All OBDII ports are located under the dash on the drivers side of the vehicle.

GETTING STARTED (STARTING THE DOWNLOADER/NAVIGATION)

To get started, with any of the Triple Dog E3 functions, follow the steps below:

1. Make sure that your key is in the ignition and in the off position before you plug the downloader into the vehicle's OBDII port. The downloader will later prompt you to turn the key to the on/run position.

2. Connect the OBDII cable that comes with the downloader into the top of the downloader and then into the OBDII port.

3. The downloader will light up to display the opening screen, and

then it will go to a vehicle selection screen. While in the vehicle selection screen select your vehicle make. See the main menu on the next page.

4. After you select your vehicle the downloader will then display the Main Menu.



This Diagram illustrates how to use the buttons on the front of the downloader to navigate through the menu systems and screen prompts given on the downloader.



VEHICLE SELECTION SCREEN

The Triple Dog E3 will display the vehicle selection screen the very first time you plug it into an OBD II port. When the vehicle selection screen appears simply select the vehicle make that fits your vehicle application. Once the correct vehicle is selected the Triple Dog will display the Main Menu. The Main Menu is shown and described on the next page.



• If the wrong vehicle is selected follow these steps:

- 1. After initially selecting the wrong vehicle wait for the downloader to display the Main Menu.
- 2. Once in the Main Menu select "Change Vehicle."
- 3. The downloader will display the vehicle selection menu. Simply highlight the correct vehicle and press the "Y" button. Then wait for the downloader to load the correct vehicle and it will then display the Main Menu.

MAIN MENU OPTIONS

The Triple Dog E3 will display the main menu as seen below after going through the vehicle selection process. The Main Menu will display all of the following options, see the following pages for a full description of each menu item.



CHANGE VEHICLE: Select this option to navigate to the Vehicle Selection screen and choose a new vehicle type. Note: the Change Vehicle option only appears in the main menu if the download is not installed on the vehicle.

ON-THE-FLY SELECT: Navigate to the ON-THE-FLY menu to switch between Stock and Tow power level settings. Note: the ON-THE-FLY option only appears in the main menu after a download is entered into the vehicle.

INSTALL DOWNLOAD: Select this option to begin the download process. Once the download process has begun it will take 15-20 minutes to complete, the process will include selecting desired power level and selecting different parameters in the vehicle specific features.

OTHER OPTIONS: Select this option to enter a submenu with these options:

- **Check DTCs:** display all of the diagnostic trouble codes on the vehicle, if any are present.
- **Clear DTCs:** Erase all DTCs on the vehicle without viewing what DTCs are present.
- **DPF Burn-off:** Activate a regeneration of the Diesel Particulate Filter on Dodge and GM diesels with a diesel particulate filter.

SETTINGS: Choose this option to view the current downloader configuration.

CHANGE VEHICLE

Once Selected the Change Vehicle Option will display the Vehicle Selection Screen. This feature should be used if:

- 1. The wrong vehicle has been selected.
- If the Triple Dog E3 is being transferred to a new vehicle.

The Change Vehicle Option will only appear in the Main Menu if the Triple Dog E3 is not installed on a vehicle.



ON-THE-FLY-SELECT

This menu Item only appears after a download is completed on a vehicle. It is also the first screen to be displayed after a download is completed. Further, after a download is completed, the ON-THE-FLY select menu will be displayed every time the Triple Dog E3 is plugged into the OBD II port.

While in the ON-THE-FLY select screen use the up and down arrow buttons to navigate between the menu items, press Y to select the power level desired. The Triple Dog E3 contains two options: the first is the Tow/Economy tune the second is the Stock Power (same power level as stock) and the third menu item if selected will return to the main menu.

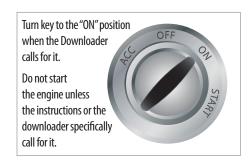
Note: Selecting the Stock Power tune, will not return the vehicle to stock, there is still a download entered into the vehicle. To return the vehicle to stock, navigate back to the main menu and select the Install Download option.



INSTALL DOWNLOAD

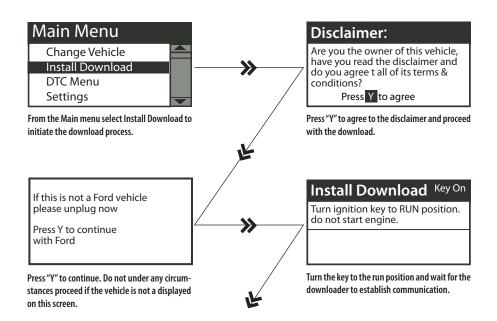
To begin the downloading process select the "Install Download" option from the main menu and follow the screen prompts. The flow chart below shows an example of the download process as an illustration of each screen during the download process. Always follow the installation precautions before downloading, changing settings, or returning a vehicle to stock. Here are the items covered in this section:

- Download Sequence flow chart
- Engine Tuning
- Adjusting Speed Limiter
- Calibrating Speedometer
- Changing Download Settings
- Returning to Stock

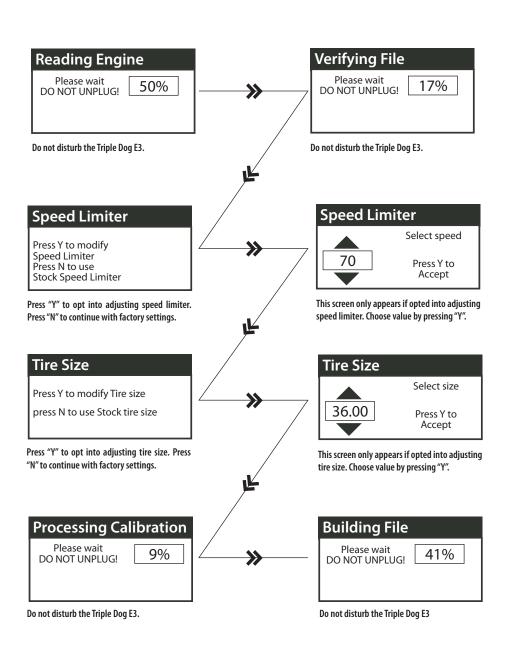


DOWNLOAD SEQUENCE FLOW CHART:

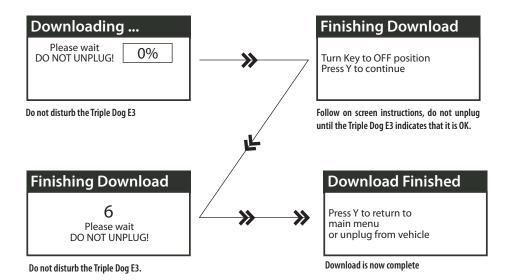
This diagram illustrates the entire download sequence screen by screen, if these screen shots do not match exactly what is on your screen it is because there are slight variations between vehicles. Simply follow the on screen instructions on the Triple Dog E3 and continue the download process.



The Download Sequence is continued on the next page.



The Download Sequence is continued on the next page.

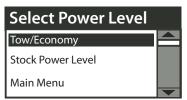


Once the download is complete. The downloader will imediately display the ON-THE-FLY screen. See the ON-THE FLY screen section for details..

ENGINE TUNING (ON-THE-FLY SCREEN):

The Triple Dog E3 contains one engine tune; the engine tune is a tow/economy tune. This tune must be selected after the download is entered into the vehicle in the ON-THE-FLY menu.

Use the Up and Down arrows to highlight an option, press "Y" to select.



Tow/Economy – Select this option for a boost in fuel economy and medium performance gains (about 50 hp, 100+ lbs. ft.).

Stock – Select stock to utilize other Triple Dog E3 features without affecting horsepower.

To see more on this go to the ON-THE-FLY section of this manual.

*SPEED LIMITER/SPEED GOVERNOR:

The OEM speed limiter will limit the vehicle to a top speed that is determined by the OEM. This features enables changing the OEM speed limiter to a higher point or lower point. By selecting "Yes," to modify the speed limiter you agree that your vehicle has tires, suspension, and any other necessary modifications rated for speeds in accordance with the adjustment made.

Note: Each vehicle application has different limitations to which the speed limiter can be adjusted. See the table below for general limitations by make:

* feature not available on every vehicle application.

Speed Limiter adjustment by make				
Make	Minimum	Maximum		
Dodge 5.9L	50 mph	200 mph		
Dodge 6.7L	50 mph	200 mph		
Ford 7.3L	NA	NA		
Ford 6.0L	40 mph	126 mph		
Ford 6.4L	NA	NA		
GM 6.6L'02-'08	50 mph	135 mph		

Speed Limiter

Press Y to modify Speed Limiter Press N to use Stock Speed Limiter

To activate and utilize the speed limiter download feature, the feature must be activated during the download.



*CALIBRATE OEM SPEEDOMETER FOR TIRE SIZE:

Adding a different sized tire than the stock OEM tire size will cause the speedometer to read incorrect speeds. The Triple Dog E3 Downloader can calibrate the OEM speedometer to read correctly depending on the vehicle and depending on how drastic the modified tire size is; each vehicle has limitations.

Note: Each vehicle application has different limitations to which the speedometer can be calibrated for tire size. See the table below for general limitations by make:

* feature not available on every vehicle application.

Tire Size Adjustment by make				
Make	Minimum	Maximum		
Dodge 5.9L	23"	44		
Dodge 6.7L	23"	44"		
Ford 7.3L	NA	NA		
Ford 6.0L'05-'07	31"	37"		
Ford 6.4L	NA	NA		
GM 6.6L'02-'08	25"	45"		

Tire Size

Press Y to modify Tire Size Press N to use Stock Tire Size

Press Y to calibrate the speedometer, Press Y to run the factory settings.



CHANGING DOWNLOAD SETTINGS/ RETURNING TO STOCK SETTINGS:

To return the vehicle to stock or to change any of the download settings: Engine Tune, Speed Limiter, or Tire Size follow the steps below.

- 1. Select Install Download from the main menu
- 2. Follow the screen prompts on the downloader screen.
- When the following Screen prompt appears you will need to select "Y" to Change settings or "N" to return to stock.

Already Downloaded

This Vehicle Has a Download
Already Installed

Yto Change Download Settings

Nto Return to Factory Stock

After you have taken your original vehicle back to stock, you can install the Triple Dog E3™ in a different vehicle. Before installing however, update the product online using the Update Agent. Before installing the Triple Dog E3 on a different vehicle, be certain that the new vehicle fits within the range of vehicle applications that are compatible with the part number and software version number associated with the Triple Dog E3.

OTHER OPTIONS

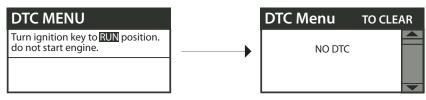
The Other Options menu item contains a sub menu with three different options depending on the vehicle applications. It contains DTC functions which will read DTCs off of the vehicle computer and erase them. It will also for certain applications contain a DPF burn-off feature for GM and Dodge vehicles that have a diesel particulate filter. The descriptions below describe each menu item and function in detail.

DTCS OR DIAGNOSTIC TROUBLE CODES are warnings saved on the engine computer that generally point to a particular malfunction in the vehicle. DTCs are an excellent method of diagnosing a vehicle, in fact this method is used by the OEM.

CHECK DTCS:

This function will look for any diagnostic trouble codes stored in the engine computer and will display all of the codes on the Triple Dog E3 screen. Notice that most codes are accompanied by a description of the code. The diagram below illustrates the checking DTCs process.

Start by selecting Check DTCs from the Other Options menu. After that follow the screen prompts until the DTC Menu displays all of the DTCs on the vehicle.



Turn the key to the run position and wait for the downloader to establish communication.

On this screen, scroll down to view all DTCs. Press "Y" to erase the DTCs, Press "N" to exit back into the main menu without erasing the codes.

Once the DTCs have been checked and are displayed on the screen they can be erased within this function by pressing "Y". Press "N" to exit into the main menu.

ERASE DTCS:

This function will simply erase whatever DTCs are found on the vehicle computer without displaying any of the DTCs on the screen. The diagram below illustrates the Erasing DTCs process screen by screen.



Turn the key to the run position and wait for the downloader to establish communication.

Choosing this function will automatically erase the DTCs on the vehicle and then exit directly back into the Main Menu.

DPF BURN-OFF, MOBILE DESOOT:

This function should only be used if the Diesel Particulate Filter is full and is not self regenerating. If this seams to be a reocurring issue it is recommended that the Triple Dog E3 is removed from the vehicle and the vehicle is taken into the dealer for service.

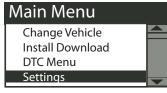


Agree to the disclaimer to activate re-gen.

SETTINGS MENU

Enter the settings menu to see how all of the downloader features are setup. All of the following features can be checked using this menu item.

OCTANE (ENGINE TUNE) & TIRE SIZE:



Select the setting menu item.



NO DOWNLOAD INSTALLED



If there is no download installed on the vehicle following screen will appear.

WITH DOWNLOAD INSTALLED



With download installed the settings menu will display Octane, Speed Limiter & Tire Size settings currently programmed into the vehicle.

UPDATE AGENT

IMPORTANT: The information on this page is applicable to all vehicles.

Since the release of the Triple Dog E3™, we have continued to add new vehicle models and features to it. New vehicle applications and features are added to the Triple Dog E3™ at no additional charge. Simply visit Bully Dog's web site www.bullydog.com/download_center.php to access the Download center to obtain the latest software version available for the Triple Dog E3™ downloader.



The most efficient way of keeping up-to-date with Bully Dog product versions is to use the Update Agent. The Update Agent is a software program developed by Bully Dog Technologies specifically designed to update Bully Dog products. The Update Agent is easy to use, it can be loaded on any windows based PC running Windows XP or newer. The Update Agent is attainable free of charge at the Bully Dog Download Center or by ordering a CD ROM through a Bully Dog distributor.



TRIPLE DOG E3™TROUBLESHOOTING

CONDITION	POSSIBLE SOURCES	ACTION		
Downloader displays: Update Needed	Installation	If the downloader displays Update Needed during installation try updating the product using the Update Agent software. once updated try installing again.		
Downloader doesn't light up when plugged into OBDII	Installation	If the downloader doesn't light up when plugged into the OBDII check the cigarette lighter fuse. Replace the fuse if blown.		
Downloader displays Checks- um error during initial install	Installation	Unplug Triple Dog E3 and try again. If problem continues, update the product using the Update Agent software and try again.		
Where is Product Serial # Located?:	Location	There is a sticker on the back of the downloader. It is also displayed on the screen when the unit is first plugged in.		

For more information on up-to-date troubleshooting guide for the Triple Dog E3™, go to www.bullydog.com/Product_Updates.php

WARRANTY INFORMATION:

Warranty information for the Triple Dog E3™ downloader can be found in the Triple Dog E3™ package along with this instruction set. Warranty information can also be found on the web at:

www.bullydog.com