

Eclipse User Manual v 1.1



# Laser Measurement System

User Manual v 1.1 6/1/2006

#### Introduction

Welcome to the Eclipse Laser Measurement System, the state of the art in automotive frame measurement. The accuracy of aerospace laser measurement applied to automotive frame repair allows you to "measure at the speed of light".

This manual is intended not only to introduce you to the system, and to educate you about its individual components, but also to serve as a reference guide to help you through the process of operating the Eclipse system easily, efficiently and profitably.

The manual covers three major sections:

- An introduction to the hardware of the system including detailed information about each of the system components.
- An introduction to the software of this system, including explanations of the operation of each of the screens, as well as walk-throughs of typical software functions.
- A thorough troubleshooting section to assist you if you run into questions, and a list of support contacts to help if the troubleshooting doesn't have what you're looking for.

While we hope this serves as a functional guide on the operation of the Eclipse System, it is not intended to replace the in-depth training an auto body frame alignment technician needs to properly understand and apply the information that this system is capable of providing. If you have questions about the frame repair process, please don't hesitate to call the sources listed so that you can be referred to the most appropriate training resource for your question.

### **Quick Start**

Since no one likes to read a manual before they start using a new tool, this section is intended to provide you with a brief introduction to the Eclipse Measuring System. This manual does include a more detailed description of both the hardware and software that you should reference as needed.

There are five primary components to the hardware in the Eclipse Measuring System:

Cabinet – This durable powder coated cabinet houses the system components, the charging tray and the computer.





Laser – The laser provides an accurate sweeping reference from which the vehicle measurements can be determined.

Targets – These precision elements act like small GPS receivers to determine accurate measurements of the specification point to which they are attached.





Stems – Color coded stems of different lengths insure that the targets can be placed within view of the laser.

Magnetic Connectors – These universal parts along with specific adaptors allow an accurate fit to the vehicle specification holes and mechanical attachment points.



# System Setup and Operation

Please setup your Eclipse Measurement system according to these steps.

# Preparation for System use

Plug-in the cabinet and turn on the system power switch on the lower rear of the cabinet. Check that the Targets are charging in the first drawer. The Blue indicator lights on the sides of the target will be lit when they on rapid charge. When charged the light goes out they are fully charged, but the targets are still receiving a continuous trickle charge. If the target is removed and replaced or the connection between the charging tray and the targets momentarily broken, the charging cycle will start again and the LED will again light blue. This sequence will go through a shorter cycle and is completely normal. The charging cycle can be interrupted and the targets used at any time.

### 1. Turn on Computer Workstation

The Eclipse Computer Workstation must be on for the measurement system to function. Power switches are the front of the computer in the bottom compartment of the System Cabinet. When turned on the keyboard should light up, and normal boot diagnostics should appear on the LCD screen.

### 2. Start Eclipse 3D software

To start the program, please double-click on the Eclipse 3D icon on the desktop. The system cannot provide measurement information without the computer running the Eclipse 3D software.

### 3. Place and turn on Laser Scanner

Remove the Eclipse Laser Scanner from the slide in the bottom compartment of the System Cabinet. Connect its power supply to 110 AC, and place the scanner underneath the car being measured (use the bridge provided to span the decks). The laser should be located near the center of the automobile with the handle pocket facing the drivers side. Turn on the laser to create the reference plane of light.

#### 4. Select automobile model

From the Repair Order tab on the software select the Year, Make, Model and Trim of the car you are measuring. That is all of the required information that you have to fill in to begin measuring. You can always return to this screen to add additional information to the Repair Order. From here you can go right into Eclipse Setup.

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-
-
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### 5. Locate a spec point to measure

After you have selected your vehicle, click the Eclipse Setup tab. There are four primary sections of this screen: The Graphic Viewer which shows the specification locations on the frame, the Reference Table which illustrates specification details, a picture of the specification point and a Target Assignment box.



To preview the specification points of the vehicle you can either left click on a specific point in the reference table or hold down your left mouse button and scroll along the vehicle reference points.

E	Point	A	В	С	D	E	F	G	Н	1	J	K	L	м
E	Target	1			_		_	3	_			_	5	8
6	5 Stem	390 📕		232 📕	232				132	152	132	132	152	1
ā	Attch	unknown	unkno											
	Target	2						4	_			_	6	-
Ľ	j Stem	390 📕		232	232				132	152	132	132	152	1
1.5	Attch	unknown	unkno											

**Manual Assignment of Targets -** To manually assign a target to a specification point, click on the spec point in the reference table, go to the Target Assignment box, select Damaged (if this is an area of the car that is damaged) or Undamaged. Plug the suggested stem into the target and it is automatically linked with this spec point. Using

a magnetic attachment paired with the suggested adaptor, place this target on the car frame in that location.

Target Attachment Detail
Attachment Point Information Attachment Location KR L 1354
Attachment Adapter 32-24 H 113
Underhood Settings
Pointer Selection None 🔽
Pin Location None 🔽
Target Assignment Choose Target ID 4 💌
Check if in Damaged area
Target Activity Target ID 4 Actual Stem
Status 1 au Dation 132
Status Low Battery

#### 6. Align Target face to Laser

The target must receive the signal from the laser to provide measurement information. Simply point the face of the target towards the laser. The LED lights will:

Blink Pink for 3 seconds when they are plugged in and assigned to a spec point. Blink Blue in standby mode.

Blink Magenta when it is receiving a laser strike but not receiving the IR signal. Blink Red if it is receiving the IR signal, but no laser strike.

Blink Green when it is properly receiving all signals from the laser.

As soon as the measurement sequence begins, the targets will light in a solid color representing the level of damage at that specification point.

#### 7. Repeat 5-6

Follow the steps until all of the points on the frame that you want to measure are targeted. Most repairs require that the torque box (the center 4 targets within a spec) be measured, as well as several points near the outer edges of the car, front and rear, to create a baseline for best-fit analysis. It is always preferred to have more targets in the measurement system than to have less; additional targets that are within spec tolerance only serve to improve the assignment of damage to the locations that actually have damage.

#### 8. Measurement

By selecting the Measurement tab you will bring up the measurement screen that will illustrate the vehicle frame damage in two ways, graphically and in a numeric table.

### **Hardware Description**

#### **Eclipse Computer Workstation**

This is a custom-built 3D workstation, designed to properly execute the advanced display system of the Eclipse 3D Measurement software in real-time. It has a DVD-ROM drive to read the largest data format, as well as industry standard 10/100 Ethernet networking.

#### **LCD Monitor**

The LCD screen is capable of displaying the 1024x768 resolution required by the Eclipse 3D Measurement Software, in full 32bit color mode. The power button is on the far right hand side of the bezel.

#### **Communications Antenna**

This is the antenna for the wireless network between the targets and the workstation. Do not cover the antenna with metal or other materials that might obstruct the wireless signal; if the antenna is broken or obscured, it will not be able to maintain a communications connection to the targets.

#### Laser

The laser supports a precision balanced rotating platform that sweeps the measurement area with a pair of reference lasers incorporated in this system. The IR LED Array is also mounted within a recessed groove in the head.



#### **Laser Apertures**

Two lasers are emitted from the rotating head to create the measurement reference for the targets.

#### Infrared LEDs

This set of 16 IR LEDs provides a 360 degree link to all of the targets being used. The light emitted by the diodes is entirely invisible to the naked eye.

#### Laser Back Panel



#### **Power Cable Connector**

This is the connection port for the power cable. Please use only the power supply that ships with the Eclipse Measurement System, use of any other power supply will void your warranty.

### **Power Switch**

This powers the Laser Scanner on and off. It does not control the operation of the Eclipse Targets, or any other element of the Eclipse System.

### Power On LED Indicator

The Green LED on the rear switch panel of the Laser Scanner will illuminate when the scanner is receiving power and is switched on.

#### Comm LED

The Yellow LED indicates the activity on the wireless communication link between the laser and the Computer Workstation. This LED will pulse as signals are sent between the devices and also provides an indication of CPU activity.

#### **Laser Power Indicator**

The Red LED indicates when the lasers have been powered. This does not necessarily indicate that the laser is on (for example low RPM), but that power has been supplied to power the lasers.

#### **Motor Indicator**

The Blue LED on the rear switch panel of the Laser will illuminate when the motor that spins the head is activated. The Scanner system prevents laser turn-on until the system has reached operating RPM.

#### Antenna

This antenna provides the wireless link with the computer.



Any of the targets can be used on any part of the car. While they do have individual identifiers, they are interchangeable and will mate with any length of stem. What this means is that you eliminate drawer clutter and support a greater variety of specification measurements with dramatically fewer parts.

#### **Target Housing**

The Target is made of high-impact polycarbonate plastic, and contains the wireless network communications system, rechargeable battery pack, and the measurement sensors and detectors which allow the target to report positional information to the Eclipse Computer Workstation

#### Laser Sensor

The red colored vertical bar in the center of the target is the sensor that detects the laser strikes. This allows the target to determine its position in 3D space. To function, the sensor must face the Laser so that the laser beams strike the target somewhere along the red bar.

#### **IR Detector**

The gray oval at the bottom of the target is a lens that collects the infrared light emitted by the 360 degree array on the scanner. To function properly the IR detector must be pointed toward the laser.

#### **Bayonet Stem Connector**

This connector allows the target to receive any of the Eclipse Target Stems. The software will suggest stem lengths for attachment to the specification points, but you can use whatever stem brings the red active area in line with the laser beams. The stem connector also serves as the target's power switch, disconnecting the target from the stem will turn it off, and prepare it for recharging.

#### **LED Indicators**

Located near the bottom of the target on either side, the LED Indicators provide the user with target status and measurement information. The target has two primary modes:

Target Status Mode, in this mode the target is providing information about just the target and it's status. This status is always displayed with flashing LED's.

Pink for 3 seconds when they are plugged in and assigned to a spec point. Blue in standby mode Purple when it is receiving a laser strike but not receiving the IR signal. Red if it is receiving the IR signal, but no laser strike. Green when it is properly receiving all signals from the laser. Slow Red flash when battery needs to be recharged

Measurement Mode displays the status of the vehicle condition with the LED's. Solid (non flashing) colors of Green, Yellow and Red indicate the level of damage at each point on the frame.

Green Width, Length and Height is within specification tolerance (<3mm) Yellow measurement has greater than 3mm to 8mm of error Red measurement has an error greater than 8mm

Charging Mode is what they display when they are in the charging drawer. The following list provides the information detail that is indicated by this versatile display.

Blue indicates fast charge, off indicates charge completed.

#### **Charging Tabs**

These allow the target to charge in the charging tray, located in the top drawer of the System Cabinet. When the tabs are properly aligned with the charging points in the drawer, the LED Indicators on the smart targets will illuminate, indicating charging status.

# **Eclipse Target Stems**

### **Ball End Connector**

This smooth connector allows the stem to mount to the four point plastic housing on the Universal Attachment, as well as several other system components. It allows the weight of the target to drive to true plumb, insuring proper measurement accuracy.

### Stem Shaft

The anodized color on the shaft gives an immediate way to identify which stem length is going to be matched to the target. The target stems are



available in 7 standard lengths to insure that your target is visible to the laser no matter how severe the damage is at a given point.

#### **Stem Connector**

Connecting the target to the stem is a 'snap'. To connect precision connector to the target, just align the connector and press until you hear the click. To disconnect, retract the external silver band on the stem, and pull straight out. The stem connector also functions as the power switch for the target.

### **Magnetic Attachments**

#### **Universal Magnetic Coupler**

These magnetic components provide a universal attachment for a variety of adaptors. The target stems snap into the target ball grip.

### Target Ball Grip

The ball end of the stem snaps securely into the ball of the Target Stem. It retains the stem securely, while allowing it to plumb horizontally or vertically for accurate measurements.

# **Bolt/Hole Adaptor**

These dual purpose adaptors give you



both a bolt head adaptor and a hole adaptor in each piece. When attached to the Universal Magnetic coupler they become magnetic to attach firmly to the specification points. The outside of the adaptor ring fits the different size holes, the center of the adaptor ring fits the bolt heads. When decoupled from the universal magnet the adaptors lose their magnetic force and allow any metal filings that have been attracted to be cleaned off.

### **Eclipse 3D Software**

### Overview

Eclipse 3D solves the problem of a quality user interface, mathematical analysis and information display to automotive frame repair software. The software is divided into five 'Folders' or sections: Repair Order for entering vehicle customer and insurance information. Eclipse Setup for setting up the measurement system for the repair. The 3D Measurement section analyzes and displays the measurement information. The 2D Viewer provides specification details of the vehicle. Reports, allows the technician to quickly compile the information into a report format. The user is able to navigate from page to page to update, add or change any of the information found on these panels.

### **Repair Order**

The data entry system consists of a screen with a body of fields for entering and editing the information regarding a given frame repair. Fields are included for customer data, automobile data, insurance company data, and repair technician data. The contents of these fields are saved into a database of repair information that stores all of the information regarding each individual measurement and repair done by a given workstation. The data is stored in such a format that it can be archived for later retrieval. The data is also accessible by the other screens for uses appropriate to each screen.

REPAI	R ORDER	EQUIPSE SETUP		MEASS/ILING:	20 VIEWER	HEPORTS
Vers* Maile * Maile * Made * Made * Tim * Vec Loome Color Company Adjuster Policy No. Devision (Man) *tose (Cell) Fax	2005 Viteron MS Sudan Z Loonae Sing Odomates color Proce (con) Proce (con) Phone (con) Phone (con) Phone (con)		Job Ticket Job Ticket Accient Date Job Own Date Job Own Date Job Own Date Job Tachricten Castemer Castemer Address I Address I Address J Chy Black Phone (Mone) Free Emel	D00001 DF1-2006 DF	Customer 2p	Onethe Liew Job Ticker! Boliono Serve Dobr Form Erret
Spec	ad hydroctonis and highes				*Regist Menation	Be to Setup ABC Body Sh

Research Technologies Copyright Research Technologies, Inc. @2007 When the vehicle detail is entered you can proceed to the Eclipse Setup screen. Saved data can be retrieved with either the Browse button or the Retrieve button. These saved files include all of the job information including the last target locations used (Note: if these positions have changed, they must be changed in the saved setup screen to match the actual configuration under the vehicle).

### **Eclipse Setup**

After you have selected your vehicle, click the Eclipse Setup tab. There are four primary sections of this screen: The Graphic Viewer which shows the specification locations on the frame, the Reference Table which illustrates specification details, a picture of the specification point and a Target Assignment box. The torque box points are highlighted in green in the Reference table. To select a specification point, click on the spec point button in the reference table. If a picture is available, it will show in the upper right corner. This image can be expanded by left clicking on it. After reviewing which points you would like to assign you can begin to assign targets to these points.



Assignment of Targets. Select the specification point that you would like to place a target on. The details of this point are displayed in the Target Attachment Detail box. The suggested stem length is displayed as well as the adaptor for that point. The stem length may vary based on the height of the clamped vehicle, this is a

suggested length. Plug the suggested stem into the target and it is automatically linked with this spec point and displayed in the Target Assignment section. Using a magnetic attachment paired with the suggested adaptor, place this target on the car frame in that location. You can also use the scroll down list to manually select the target for that location. The target must receive the signal from the laser to provide measurement information. Simply point the face of the target towards the laser. The LED lights will:

Blink Pink for 3 seconds when they are plugged in and assigned to a spec point. Blink Blue in standby mode.

Blink Magenta when it is receiving a laser strike but not receiving the IR signal. Blink Red if it is receiving the IR signal, but no laser strike.

Blink Green when it is properly receiving all signals from the laser. The Graphic view window can be zoomed and panned to see a more detailed view of the point of interest. This is especially helpful when the image of a point is not available.

Once the targets are placed on the vehicle the technician can go to the measurement screen.

### **3D Measuring**

The measurement section is divided up into three primary sections. The graphic window offers several options to display the repair information. The numeric information is displayed in the lower left corner and the screen control settings are found in the lower right of the panel. The graphic window offers the technician both 2D views and 3D views with the ability to pan, zoom and rotate the image. The damage is displayed in color on the screen so that the magnitude and direction of the damage is easy to understand. From the tech to the adjuster the information is straightforward and easy to understand.



#### Eclipse Laser Measurement System



The variety of graphic choices are illustrated below.

These are the two 3D screens showing the perspective view and the top view.



The repair screen and height screen offer a simplified schematic of the damage that is similar to a radar screen of where the targets are, and how much damage they are indicating. The last of the viewing screens combines these two frames so they can be viewed in the same panel simultaneously.

The graphic information is updated in real time as the vehicle is being repaired. The color information presented in the graphic is also displayed at the same time at each of the targets under the vehicle.

The numeric data is displayed in the lower left of the panel. Again, the technician can select which information they would like to work with. The choices in this section are Damage, Measured, Specifications, Virtual Tram and Status. The Damage section details the difference from the specification and the measured value in mm and displays the information in color as well. The Measured numbers and Specification numbers can be viewed separately in their own sections. Virtual tram allows measurements to be taken between points under the vehicle both diagonal and point to point. The tram dimensional information updates as the vehicle is repaired.

#### Eclipse Laser Measurement System

DAMAGE		ME	MEASURED		SPECS	VIF	TUAL TRAM	STATUS
	Point	В	E	к	N	Q		
	Target	2	10	4	6	8		
토	L	18	-0	-0	0	-0		
풀	W	-25	0	0	0	-0		
	Н	-11	0	-0	0	-0		
Ξ	Target	3	11	5	7	9		
Ē	L	13	-0	-0	0	-0		
Ш	W	-11	-0	-0	-0	0		
	Н	-0	0	-0	0	-0		

The final section in this panel allows the technician to control the data within the view screen. In addition to the graphic and numeric information, the level and direction of damage are shown as a 3D vector. The Vector Control section provides a Vector Scale which increases the length of the vector(s) for easy viewing in the graphics screens.



The direction of the vector can be limited to a specific axis by selecting length only or width only. This ability to focus on the damage in this range provides a repair path that the technician can control. This is also true for the Damage Tolerance slide which sets a threshold that changes the color indications. Gross corrections can be made with a wider setting that can be refined as zero damage is approached.

Snapshot manager provides the data field information to manage the snapshot history for each job.

Print Screen captures the information on the screen and shows the owner detail (in the control box). Additionally the registered shop information is posted to the top of the sheet on the print out. This provides the before and after information to share with the owner or insurance company.

### 2D Viewer

This section displays the detailed information about the vehicle dimensions for upper body as well as the under body of the car. You are able to zoom and pan in these electronic blueprints for additional dimensional information.

# Troubleshooting

Laser Scanner	Blue LED	CPU Functioning		
	Red LED	Operating RPM/Laser Functioning		
	Green LED	Power-On Status		
	Yellow LED	Fault Condition Indicator		
Targets	Flashing Red	Lack of Laser signal received		
	Flashing Purple	Lack of IR signal received		
	Flashing Green	Communicating but not assigned to Spec		
	Solid Green	Communicating and within Spec		
	Solid Yellow	Communicating and close to Spec		
	Solid Red	Communicating and out of Spec		
	Solid Blue	Rapid Charging		

# **General Information**

The Eclipse Laser Measurement system has been designed to withstand the rigors of the auto body shop environment, but as with any piece of precision measurement equipment, a few warnings are appropriate.

### **Physical Care**

The Eclipse Laser is a precision optical instrument, do not drop or subject the laser or targets to impacts, as it could reduce the accuracy of, or disable, measurement functions.

The Eclipse Laser is painted with a highly durable powder coat finish. It is designed to withstand typical abrasion, chemicals, oils, and water. It is not impervious to damage however, so please treat it with care. The finish can be cleaned with any normal household cleaner, sprayed onto a cleaning rag, and gently wiped clean. Do not use bleaches, abrasives, solvents or spraying a large amount of fluid directly onto the scanner.

### Eye Safety

The lasers used in the Eclipse Laser Measurement system are completely eye safe. They operate well below the eye-safe range of 3.5mW for a Class II laser and comply with Title 21 of the C.F.R. As with any bright light if the laser beam does strike the eye it can be uncomfortable, so please take measures to not stare directly into the beam.

### FCC Regulations

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following conditions:

(1) this device may not cause harmful interference

(2) this device must accept any interference received, including interference that may cause undesired operations.

Changes or modifications not expressly approved by Research Technologies Inc. void the user's authority to operate the equipment.

### **Copyright Information**

Eclipse Users Manual

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#### Warranty and Service Information

Research Technologies warrants this laser measurement system against defects in materials and workmanship for a period of one year from receipt by the retail customer for use. If Research Technologies receives notice of such defects during the warranty period, Research Technologies will, at its option, either repair or replace products which prove to be defective.

This warranty gives the customer specific legal rights. Other rights, which vary from state to state or province to province, may be available.

#### Exclusions

The above warranty shall not apply to defects resulting from improper or inadequate maintenance by the customer, customer-supplied software or interfacing, unauthorized modification or misuse and operation outside of the environmental specifications for the product.

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RESEARCH TECHNOLOGIES MAKES NO OTHER WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THIS PRODUCT. RESEARCH TECHNOLOGIES SPECIFICALLY DISCLAIMS THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. In any state or province which does not allow the foregoing disclaimer, any implied warranty of merchantability or fitness for a particular purpose imposed by law in those states or provinces is limited to the three-year duration of the written warranty.

Troubleshooting and Support Warranty and Service Information

Exclusive Remedies

THE REMEDIES PROVIDED HEREIN ARE THE CUSTOMER'S SOLE AND EXCLUSIVE REMEDIES. IN NO EVENT SHALL RESEARCH TECHNOLOGIES BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, WHETHER BASED ON CONTRACT, TORT, OR ANY OTHER LEGAL THEORY.

In any state or province that does not allow the foregoing exclusion or limitation of incidental or consequential damages, the customer may have other remedies.

Obtaining Hardware Service To maintain the warranty, your scanner must be serviced by an authorized repair center. You may return your scanner to Research Technologies or a designated Research Technologies Repair Center. Contact Research Technologies for instructions before returning your scanner for service. If you return your scanner, you must prepay all shipping charges, duty, and taxes. Except for products returned to the customer from another country, Research Technologies shall pay for return shipment of products to the customer.

Service after the warranty period expires If your hardware requires service after the warranty period has expired, contact Research Technologies or a designated Research Technologies Repair Center. If you have a Maintenance Agreement, request service under your agreement. All other repair and service for the mini-scanners is available on a time and material basis. An estimate of repair will be provided to the customer prior to any service being performed.

Contact Information For Warranty or service information please contact Research Technologies at 425 670 2167.

### Warning labels

Warning and compliance labels are found on both the laser and the targets in the system. The laser is a Class II laser product when in a stationary position. In practice the laser is not activated until the device is rotating >100 rpm. The nominal rotation of the laser places it in a Class I category of laser device.

This device complies with Part 15 of the FCC Rules.



### Installing Mitchell data base updates

Insert the DVD and run the setup.exe on disk one. Follow all the "default" prompts to complete update install.

Start the CRS program (click on desktop icon twice) You will get this message:

Mitchell I	nternational - Collision Repair Series 5.0 🛛 🔀				
2	CRS has detected a newer database on your disc D.				
~	You should install this newer database as soon as possible.				
	Would you like to install these now?				
	<u>Y</u> es <u>N</u> o				

Select yes. Then you will get this screen below. Change the selection to "Copy to your Hard Disk" and click on green street light.

I	http://www.commonsecurity.com/commonsecurity.com/commonsecurity.com/commonsecurity.com/commonsecurity.com/commonsecurity.com/com/commonsecurity.com/com/com/com/com/com/com/com/com/com/	_ 🗆 🗙
	Network & Mapping for databases other than the Index requires Multi-User Registration	
	Location Preferences	
	C CD/DVD ROM Only	
	Copy to your Hard Disk	
	C Copy to a Network Disk	
	C Map to a pre-installed Database	
		- <b>18</b>
	CHS will be utilizing the CD/DVD HOM defined as D:	

You will then get the screen below:

http://www.commons.com/commons.com/commons.com/commons.com/commons.com/commons.com/commons.com/commons.com/com/com/com/com/com/com/com/com/com/	
Network & Mapping for databases other than the Index requires Multi-User Registrati	on
VIN VIN	
CRS will be utilizing the CD/DVD ROM defined as D:	

Dimension, and Index are required for Eclipse, so make sure those are checked. Then click on green streetlight to get the below screen. Choose yes.



And at this screen choose yes.



And yet again...

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