



RS-Caliper

Operation Manual



281-347-3007

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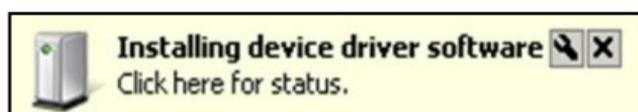
1. Preparation

A. Boot up PC.

B. Insert Dongle into any available USB Port



- i. When the dongle is plugged in for the first time, the following message would be displayed on the bottom right corner.



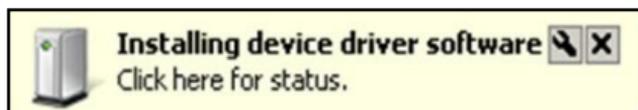
- ii. If the above message is shown, wait till you see the following message at the same spot.



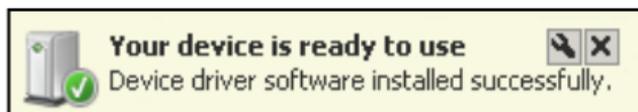
C. Insert Flash Drive into any available USB Port



- i. When the Flash Drive is plugged in for the first time, the following message would be displayed on the bottom right corner.



- ii. If the above message is shown, wait till you see the following message at the same spot.

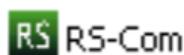


2. Open RS-Caliper Software

- A. Click on “Open folder to view files” on the “AutoPlay” window that appears after the Flash Drive is plugged in.



- i. Alternatively, Click on Start → Computer and click on “RS-CALIPER” drive
- B. On the screen that shows up, double-click on “RS-Com” or “RS-Com.exe”



- C. The RS-Com Software opens and displays the Home screen as below.



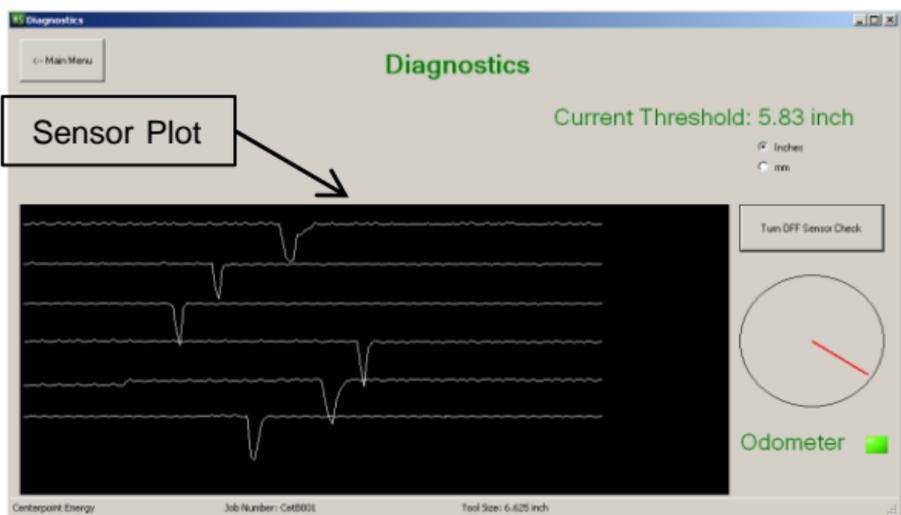
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3. Check Sensors

- A. Make sure steps mentioned in Section 1 and Section 2 of this manual are executed.
- B. Pull the RS-Caliper tool out of its shipping case.
- C. Remove the insulation tape and the magnet from the tool. Please store the magnet away from the RS-Caliper tool.

Warning: The magnet can impact the operation of the tool. Please store it away at a secure location away from the tool.
- D. Click the “Diagnostics” button on the Home screen of the RS-Com software.
 - i. The RS-Com software will establish communication with the tool and show the Diagnostics screen.
 - ii. Click on “Turn ON Sensor Check” to start testing sensors. The geometry sensors, Odometer sensors and the Orientation sensor can be tested.



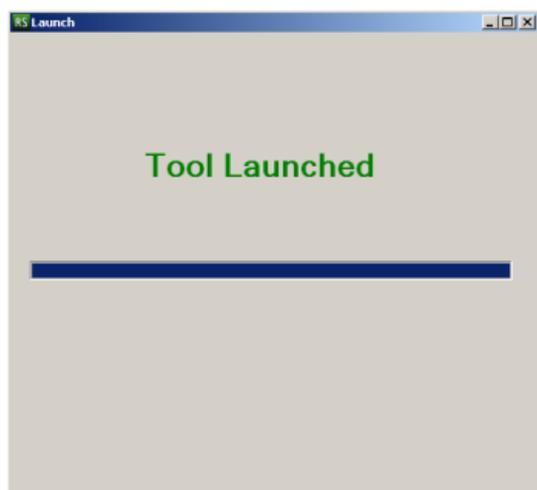
- E. After completing the sensor check, Click on “← Home” button to perform other tasks.



4. Launch

- A. Make sure steps mentioned in Section 1 and Section 2 of this manual are executed.
- B. If the tool isn't already prepared, follow the next two steps.
 - i. Pull the RS-Caliper tool out of its shipping case.
 - ii. Remove the insulation tape and the magnet from the tool. Please store the magnet away from the RS-Caliper tool.

Warning: The magnet can impact the operation of the tool. Please store it away at a secure location away from the tool.
- C. Click the "Launch" button on the Home screen of the RS-Com software.
 - i. The software will Establish Communication with the tool and then Launch the tool.
 - ii. Once the tool is launched, the following message would be displayed for five seconds before the Home Screen is shown again.



- D. The tool is ready to be inserted in the pipeline. Please jump to Section "8. Exit"

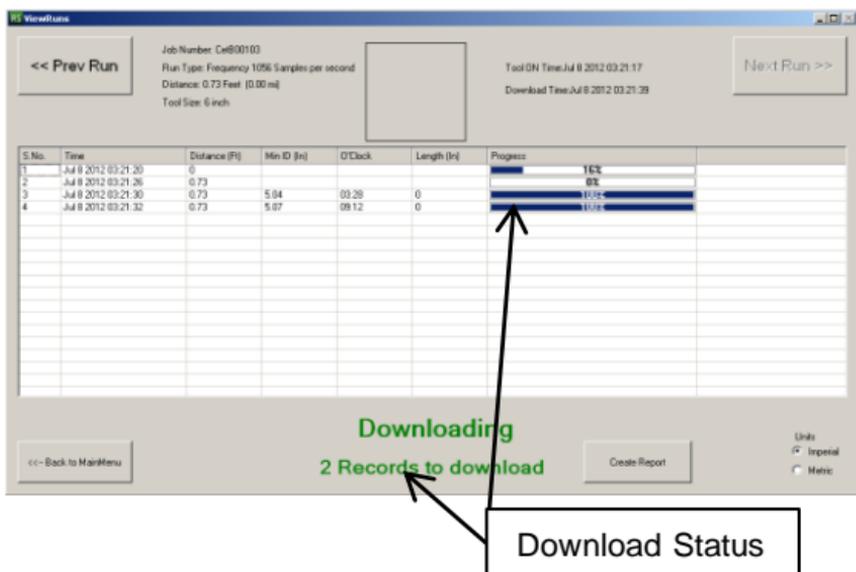


5. Download

- A. Make sure steps mentioned in Section 1 and Section 2 of this manual are executed.
- B. After pulling the RS-Caliper tool out of the pipeline, place it within ten feet from the PC.
- C. Click on the “Download” button on the home screen of RS-Com software.
 - i. The RS-Com software will establish communication and download the Go/No-Go list from the tool.



- ii. The Go/No-Go list is displayed and data for detailed analysis of each record is downloaded. Please wait till all records are downloaded.
- iii. Once a record is downloaded, vital parameters of the record is available. Clicking on a downloaded record also displays the cross-section.



S.No.	Time	Distance (ft)	Min ID (in)	O'Clock	Length (in)	Progress
1	Jul 8 2012 03:21:20	0				16%
2	Jul 8 2012 03:21:26	0.73				88%
3	Jul 8 2012 03:21:30	0.73	5.04	03:28	0	100%
4	Jul 8 2012 03:21:32	0.73	5.07	08:12	0	100%

Downloading
2 Records to download

Download Status

- D. Jump to Section 7 to create the report or Section 8 to quit RS-Com.



6. View Runs

- A. Make sure steps mentioned in Section 1 and Section 2 of this manual are executed.
- Please note that inserting dongle is optional if all records have already been downloaded.
- B. Click on the “View Runs” button on the home screen of RS-Com software.
- The RS-Com software displays the list of Go/No-Go records of the last run.
 - Clicking on a record displays the cross-section on the Cross-Section window.
 - The unit of the values maybe changed by selecting the Imperial / Metric option buttons.
 - Go/No-Go records of other runs can be navigated to by Clicking on the “Run Navigation Buttons” marked by the arrow signs on the top left and right hand corner.

The screenshot shows the RS-Com software interface. At the top, there are navigation buttons: "<< Prev Run" on the left and "Next Run >>" on the right. In the center, there is a "Cross-Section window" displaying a red heart-shaped cross-section. Below this is a table of Go/No-Go records. At the bottom right, there are unit selection buttons for "Imperial" and "Metric".

Job Number: Cel000103
Run Type: Frequency 1056 Samples per second
Distance: 0.73 Feet (0.00 m)
Tool Size: 6 inch
Tool ON Time: Jul 8 2012 03:21:17
Download Time: Jul 8 2012 03:21:39

S.No	Time	Distance (ft)	Min ID (in)	O'Clock	Length (in)	Progress
1	Jul 8 2012 03:21:20	0	4.95	00:23	0	
2	Jul 8 2012 03:21:26	0.73	5.17	06:17	0	
3	Jul 8 2012 03:21:30	0.73	5.04	03:28	0	
4	Jul 8 2012 03:21:32	0.73	5.07	09:12	0	

Units:
 Imperial
 Metric

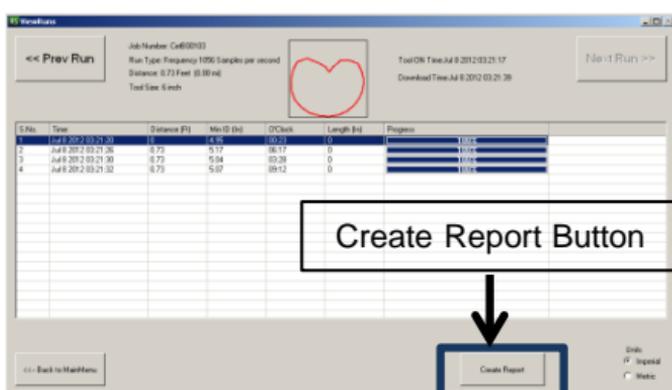
Go/No-Go Records

Imperial / Metric Unit Selection



7. Generate Report

- A. Make sure steps mentioned in Section 1 and Section 2 of this manual are executed.
 - i. Note that inserting dongle is optional if all records have already been downloaded.
- B. When “View Runs” button is clicked on the Home screen of the RS-Com software or at the end of Download process, the list of Go/No-Go records are displayed.
 - i. Click on the “Create Report” button on the screen as identified in the image below.



- ii. Fill the run-specific information on the “Create Report” dialog as shown below and click “Create Report”.

The 'Create Report' dialog box contains the following fields:

- Section Name: [Section Name]
- Launch Name: [Launch Name]
- Trap Name: [Trap Name]
- Run Product: [Run Product]
- Wall Thickness: [0.2] inch
- Launch Date and Time: [Jul 08, 2012, 03:52]
- Trap Date and Time: [Jul 08, 2012, 03:52]

A 'Create Report' button is located at the bottom of the dialog.

- iii. A report preview will be shown from which the report can be saved as a PDF file or can be printed to an installed printer.



8. Exit

A. Close RS-Com software

- i. Navigage to "Home".
- ii. Click on the window close button on the top right corner.

B. Unplug Dongle

C. Safely Remove Flash drive

- i. Although optional, this step is highly recommended.
- ii. Click on objects circled in order mentioned.



A. Unplug Flash drive



Appendix – Error Messages

- A. “Insert RS-Caliper Dongle”**
- i. Refer to Section 1 “Preparation” and make sure the green colored dongle is inserted and wait for 2 minutes.
 - ii. If dongle is already inserted, follow section 8, restart computer, then section 1 and then section 2, in that order.
 - iii. Contact EnviroCal if problem persists.
- B. “Tool Not Found”**
- i. Bring the tool closer to the computer.
 - ii. If already close, follow section 8, restart computer, then section 1 and then section 2, in that order.
 - iii. Contact EnviroCal if problem persists.
- C. “Config File not found”**
- i. Very unlikely message. Follow section 1 and section 2.
 - ii. If that doesn't help, restart computer and follow section 8, restart computer, then section 1 and then section 2, in that order.
 - iii. Contact EnviroCal if problem persists.
- D. “Unable to Write Records”**
- i. Restart computer and try again.
 - ii. Contact EnviroCal if problem persists.
- E. “Tool NOT Launched”**
- i. Bring Tool closer to the computer and try again.
 - ii. If that doesn't help, , follow section 8, restart computer, then section 1 and then section 2, in that order.
 - iii. Contact EnviroCal if problem persists.
- F. “Config Files Not Updated - Tool Successfully Launched”**
- i. Contact EnviroCal.

