User's Manual

Version 6.8.0

E-mail: Stan Weiss <srweiss1@comcast.net>
E-mail: <davidvizardseminar@gmail.com>
Website: http://www.davidvizardperformanceseminars.com/

General Information

This is a Computer program that will help you to analyze and optimize your engine's parts.

The most important thing to remember is that the more accurate your input to the program is, the more accurate the answer will be. So if unexpected results occur please double-check all your input data. If all checks out please email us. Because programs are not always perfect and there is always the possibility of a programming error. See **Reporting Problems** on next page. Although some examples may show only a few decimal places the program will accept however many you key in, but any more then a few will not hold accuracy. Cells with a **white background** are for user input only, and a **yellow background** is used by the program for it's calculated output. When you move the mouse over a command button a help window will show on the bottom of the form that gives you more information about which inputs are used by that command and what information will be calculated. When you move the mouse over a cell that has a **red bar** a help window will show on the bottom of the form giving more detailed information.

Computer Requirements:

A minimum screen resolution of 1200 by 700 is required. We Recommended a higher resolution to optimize displays. The **Use Full Screen Resolution** Option.

Compatible with these versions of Microsoft Windows operating systems: 2000, XP, VISTA, Windows 7, Windows 8 / 8.1 and Windows 10 in both 32 and 64 bit versions.

You will also need 10 MB of free hard disk space for the program plus supplied files and another 2 MB for the documentation. Addition space will also be needed for reports, configuration and data files that you create.

A printer is optional - It is only needed if you want to make a hard copy of any of the forms, text reports, or other files the program creates or to Print Cam Card.

While I personally have no experience with running the software with any other operating systems I do have users that are doing just that.

> Just letting you know that I've received it and that it runs fine under Linux using the Wine windows emulator.
>
> Cheers,

Getting Started

Installation:

Installation is quick and easy on any computer.

Just run the supplied TMC Setup.exe.

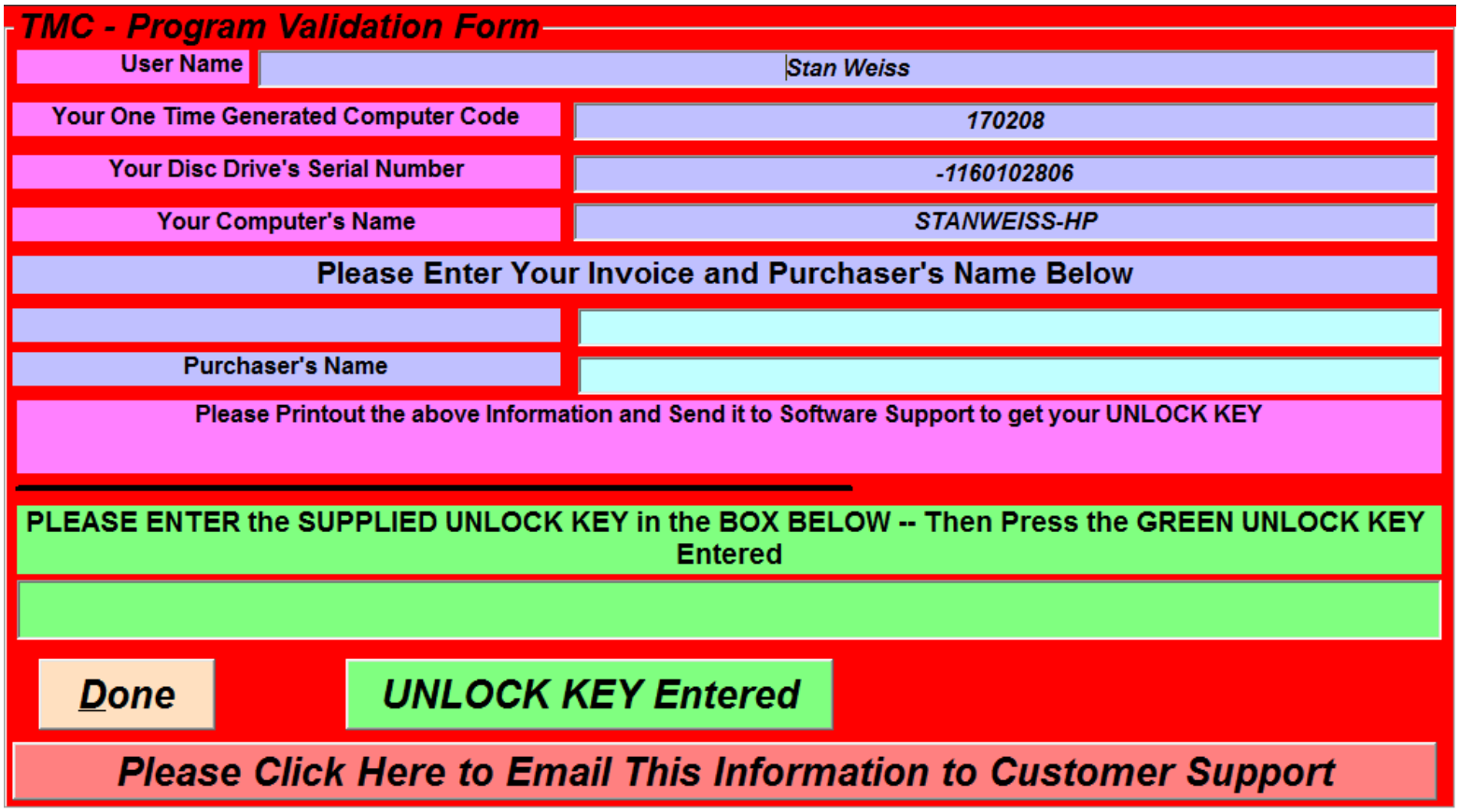
Uninstalling The Software.

To uninstall the software just Go To Control Panel Add Remove Programs and uninstall / remove it.

Please Note the 14 Day Rental version does need Validation / or UNLOCK KEY.

Each time you load the 14 day Rental after the first time it will tell you how days are left.

Please Note you need to fill out and send this to Customer Service / Support before you can use the Software.



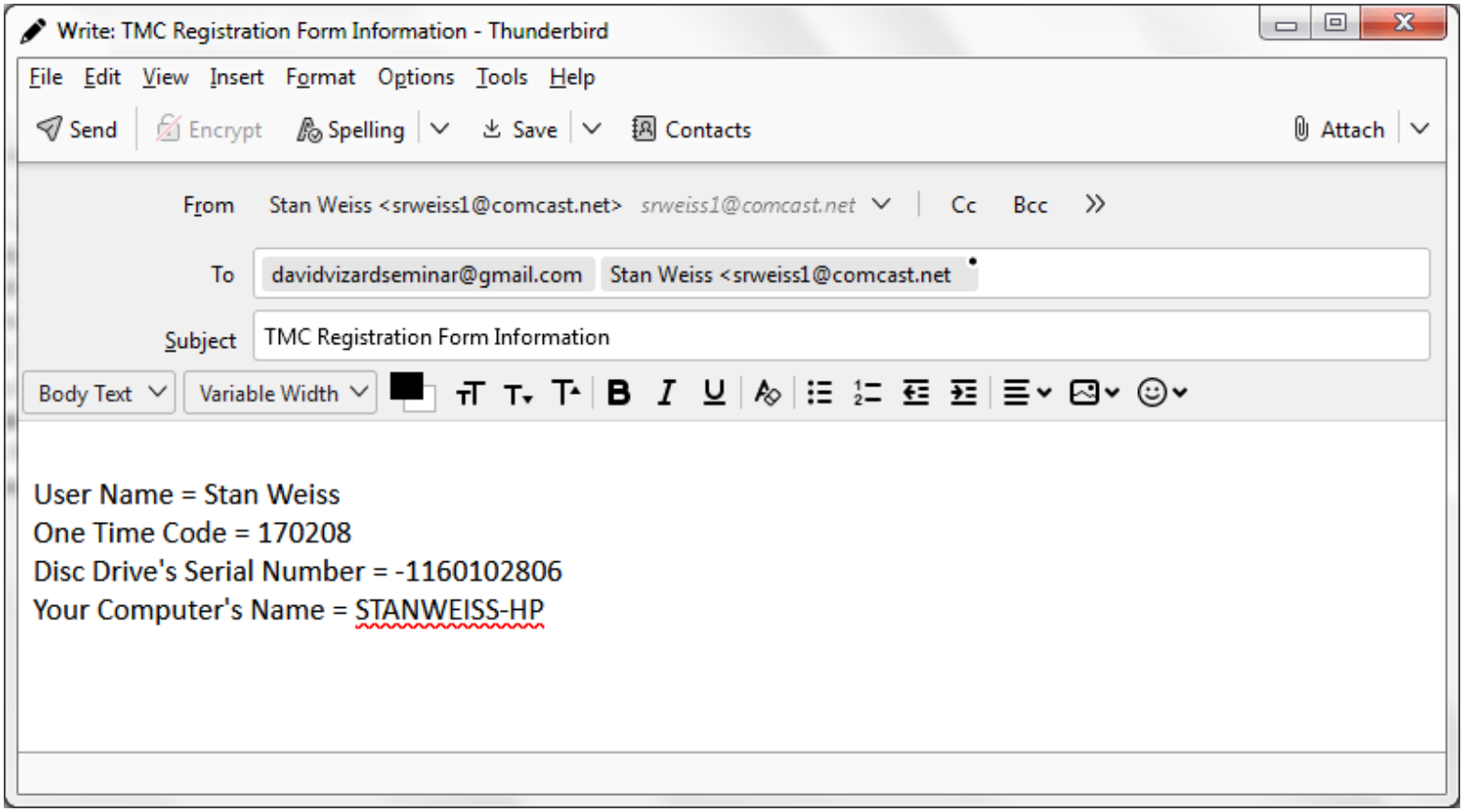
Validation of Your Software.

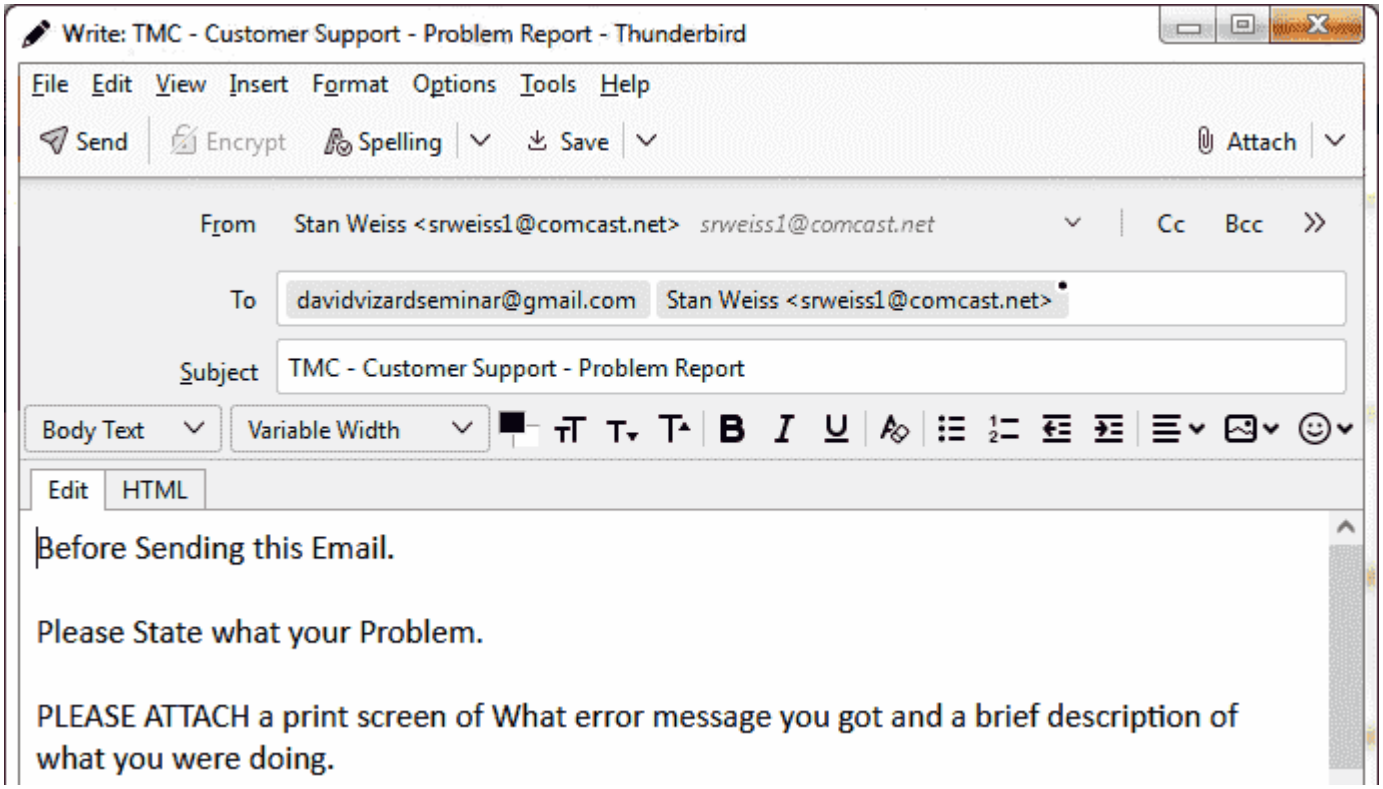
Starting with Version 5.0.0 the software will load and show a **Program Validation Form**. See above picture. This form will s 4 lines of information that that is filled in by the software. You will then need to email this form to us. Then hit **Done** and close the program down. Within 24 hours we will email you back an **UNLOCK Code**. You need to load the program. It will show the same form with the same information filled in. Enter the **UNLOCK code** you received from us in the last line (Green Background) and then hit the **UNLOCK KEY Entered** Button. This window should close and the Splash screen should now show the **Enter** button. The next time the software is loaded it should go right to the splash screen with the **Ente**r button. **Please NOTE:** that this process needs to be done for each computer that you want to use the software on, also once done on a computer future updates of the program will not require going through this process again.

Validation of Your Software.

Starting with Version 5.0.0 the software will on the first run only when displaying the **Program Validation Form** will also generate an Email with information filed in so all the User has to do Email that information to Customer Service.

See Examples of the program generated email below.





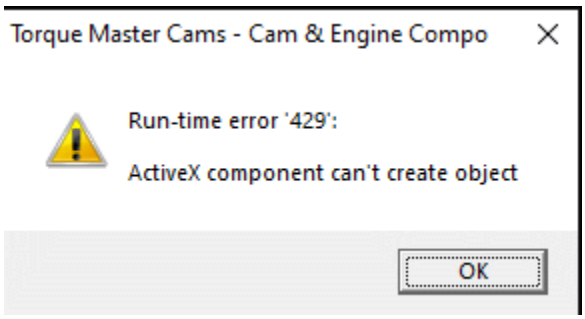
Reporting Problems / Getting Help.

Please let us know if you experience any problems at all. We will need to know how you try to run the program. Whether by using a Short Cut, Windows Explorer, Start | Run, or a DOS command line. We also need to know what error message you got and if possible a hardcopy / print screen of the error screen. What

version of the operating system and service packs you are using. If the program is up and running when you have a problem than please write / save the information you have entered and calculated to a parameter file. Be sure to include an in-depth explanation of what the problem is and what you were doing when you got the error and saved the file you are sending. Go into the folder where the file is and attached that file to the e-mail reporting your problem. Please include as much information as possible about the problem. Also please include what version of TMC you are using.

Known Problems.

There is one known problem. Which happens on a very limited number of computers. The problem is the program will not run and produces an a “Run Time Error 429” If you have this problem Please contact Customer to receive a different version of the program specially for these machines.



Technical Support Policy: **There is free e-mail support to all registered users.**

Software Update Policy: **Updates are free, for the first year after purchase.**

How does it work?

First you must load the program. This can be done many ways. You can use a short cut, windows explorer, the run option of Start, or a DOS command line. The easiest way to use the program is to create a short cut and drag it on to your Desktop; you can then click on the TMC icon on your Desktop to start the program.

The **PrtSc as JPG** button will cause the program to save an image of that screen in JPG format to your disk. The file name will have the format of program name (TMC) _ day of the week _ month _ day of the month _ year _ time of day. The location of the file should be something like this.

C:\Users***Stan Weiss***\AppData\Local\VirtualStore\Program Files (x86)\TMC

Where ***Stan Weiss*** will be YOUR User Name.

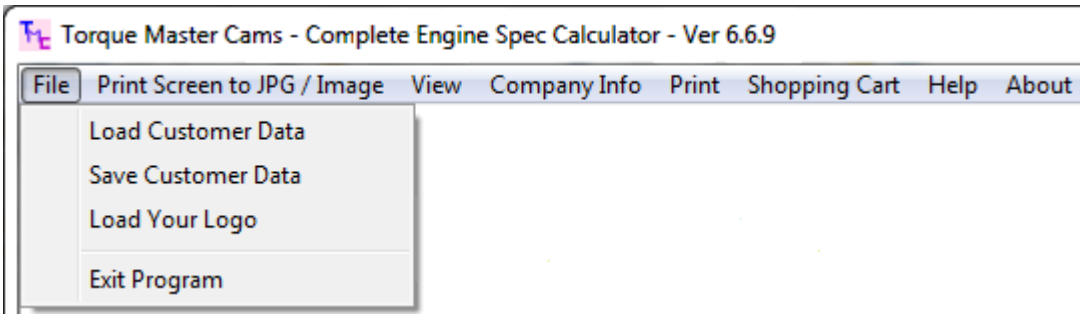
If you click on **File** in the upper left hand corner there are some options to change how the program is displayed.

Use Full Screen Resolution - When the program is run on monitors that are set to a very higher resolutions the forms maybe small and only fill a small area on the screen and maybe hard to read. This function will examine the users system and makes better use of the available screen area by enlarging the forms as well as the fonts. The **Full Screen Resolution** option will cause the program to try and expand each screen to use most of the available screen size.

If after trying either or both of these option you like one or both and would like the program to automatically startup that way, you will need to add a switch to the YMC program shortcut. Right click the TMC shortcut and then click properties. The above print screen shows where to add the switch(s).
/fs = Full Screen Standard aspect Ratio

Since there different versions of Windows and people maybe running different screen resolutions it is possible that some problems may happen. If this does happen Please send me a printout of the screen that does not display correctly and also click the **Show Screen Resolution** menu option and send me that information as well.

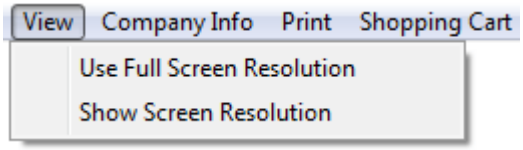
Show Screen Resolution menu option is just a quick way for you to see what resolution the monitor is set to and what dpi the fonts are set to.

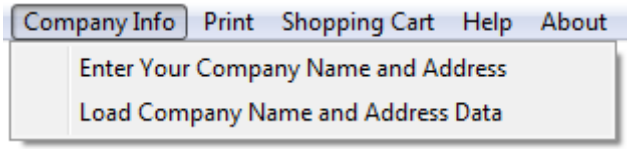


Load Customer Data from File Read in the previously saved customer data from a file.

Save Customer Data to a File Save the changed Customer Data to whatever file you want.

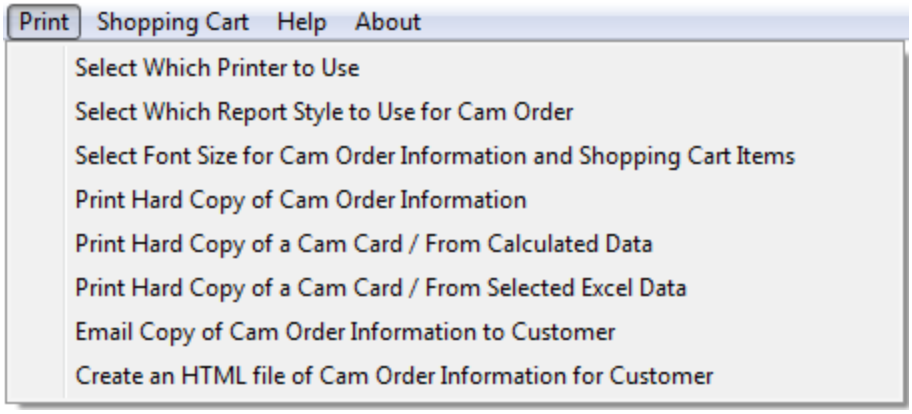
Load Logo Lets you load a logo which will show on the main screen and also will be printed on the different report that can you can generate.

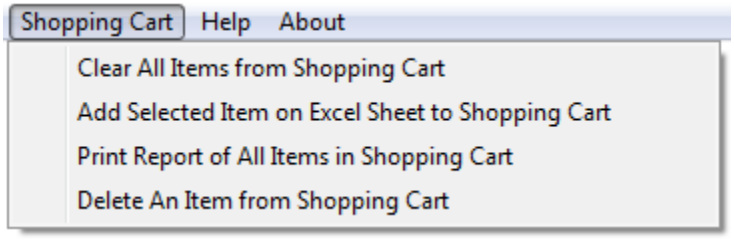


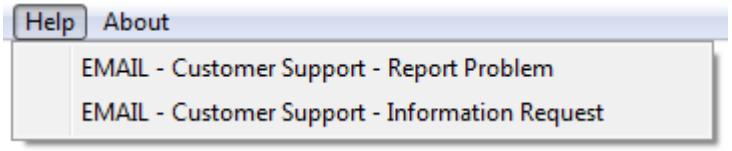


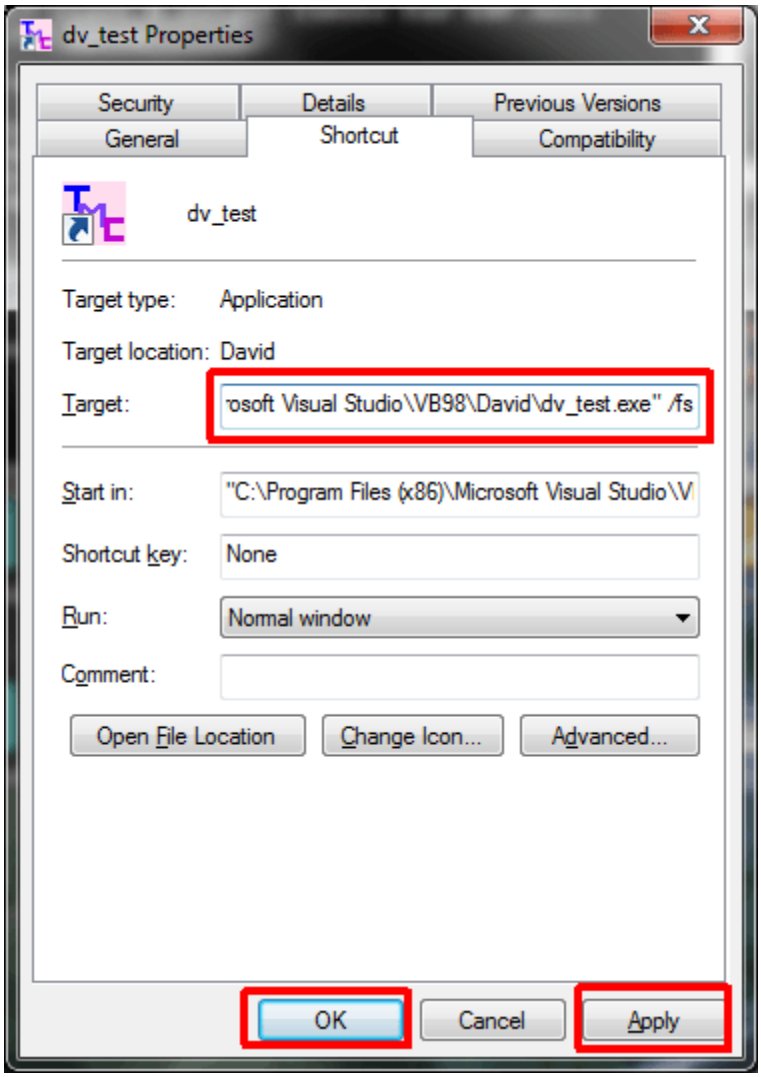
Enter Company Name and Address Data Enter your Company Name and Address data along with the color you want it Printed in on the Reports. There is also an Option to Save this data to a file.

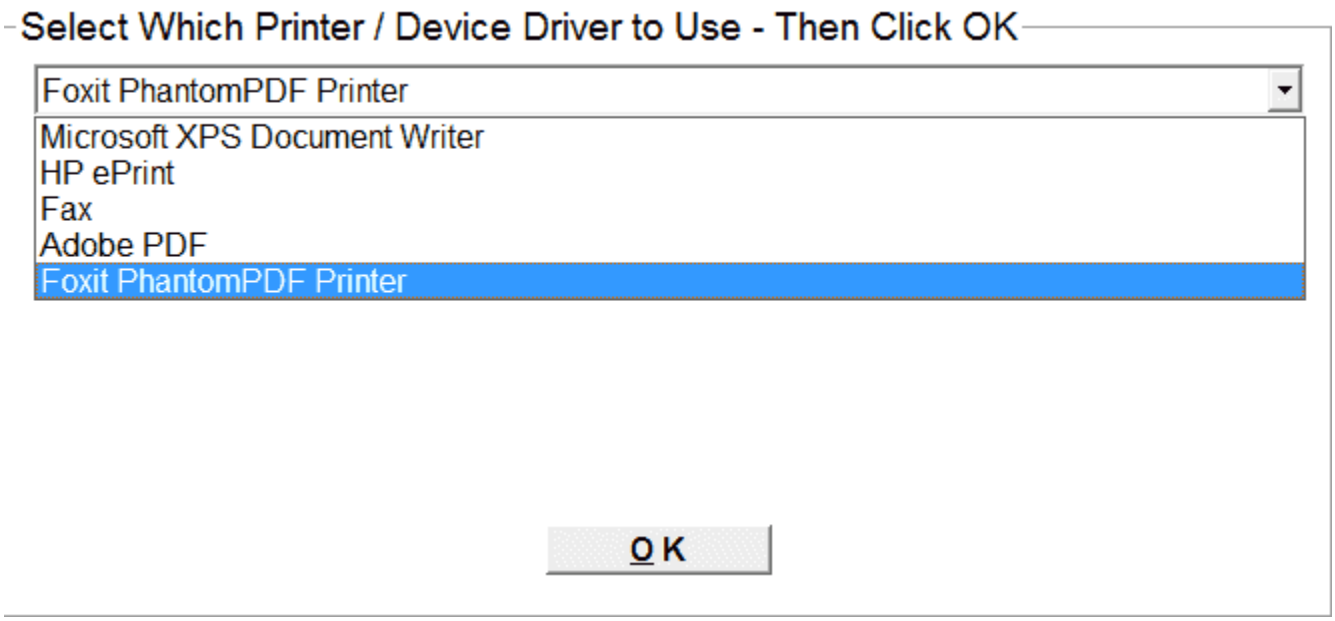
Load Company Name and Address Data from File Read in the previously saved Company Name and Address data from a file.


Print
Shopping Cart
Help
About
Select Which Printer to Use
Select Which Report Style to Use for Cam Order
Select Font Size for Cam Order Information and Shopping Cart Items
Print Hard Copy of Cam Order Information
Print Hard Copy of a Cam Card / From Calculated Data
Print Hard Copy of a Cam Card / From Selected Excel Data
Email Copy of Cam Order Information to Customer
Create an HTML file of Cam Order Information for Customer

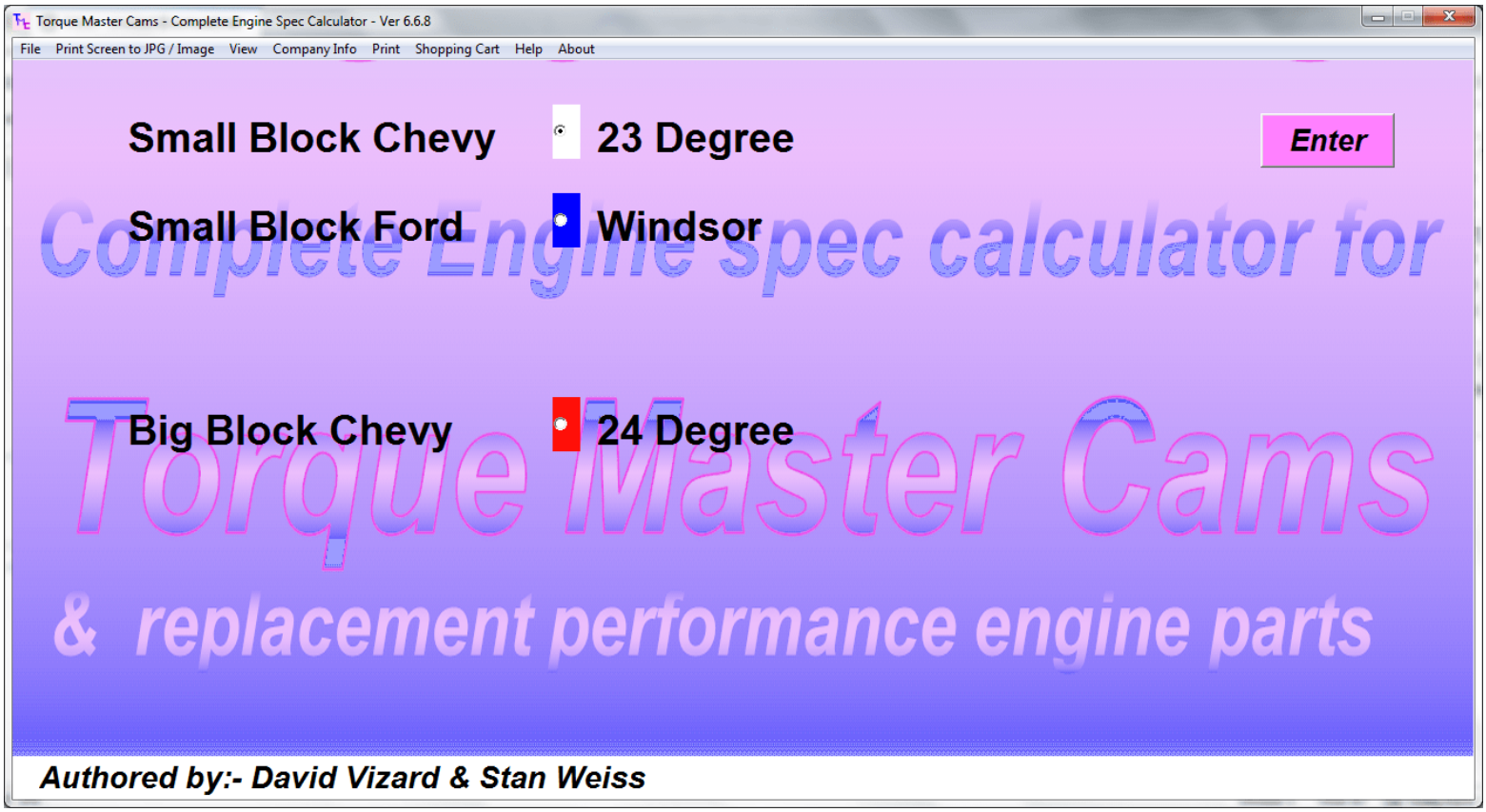

Shopping Cart
Help
About
Clear All Items from Shopping Cart
Add Selected Item on Excel Sheet to Shopping Cart
Print Report of All Items in Shopping Cart
Delete An Item from Shopping Cart


Help
About
EMAIL - Customer Support - Report Problem
EMAIL - Customer Support - Information Request





What you saw on the first page of this document is the opening page or the programs splash screen. When you click 'Enter' and that leads us to the program's selection screens.


Torque Master Cams - Complete Engine Spec Calculator - Ver 6.6.8
File Print Screen to JPG / Image View Company Info Print Shopping Cart Help About
Small Block Chevy
Small Block Ford
Big Block Chevy
23 Degree
Windsor
24 Degree
Enter
Complete Engine spec calculator for
Torque Master Cams
& replacement performance engine parts
Authored by:- David Vizard & Stan Weiss


Torque Master Cams - Complete Engine Spec Calculator - Ver 6.6.3
File Print Screen to JPG / Image View Company Info Print Shopping Cart Help About
Small Block Chevy - 23 Degree
Hydraulic Flat Tappet
Solid Flat Tappet
Hydraulic Roller Lifter
Solid Roller Lifter
Enter
Previous
Complete Engine spec calculator for
Torque Master Cams
& replacement performance engine parts
Authored by:- David Vizard & Stan Weiss

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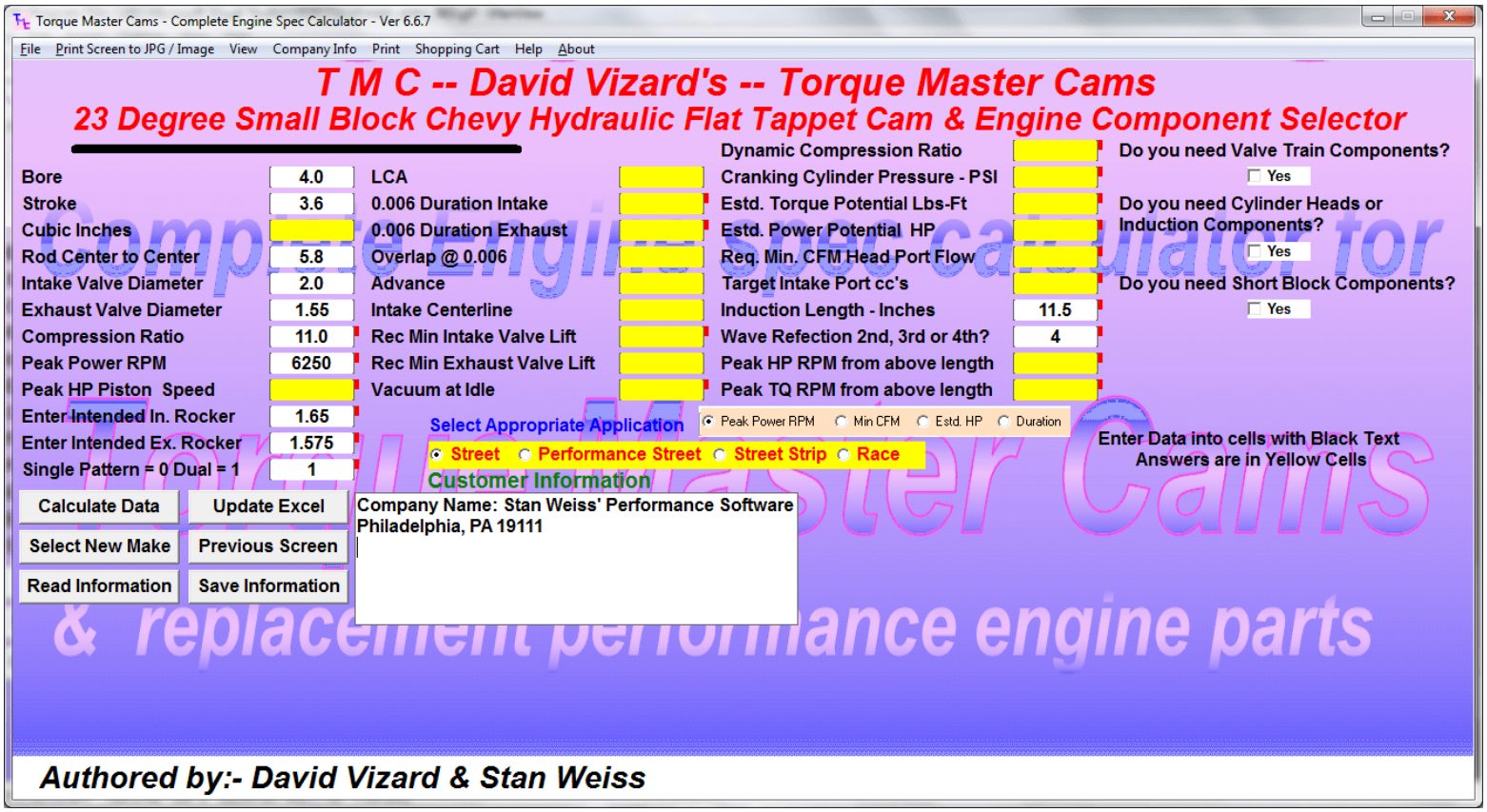


Calculate Data After you have entered your engines information you will click this button to Calculate the recommended cam specs.

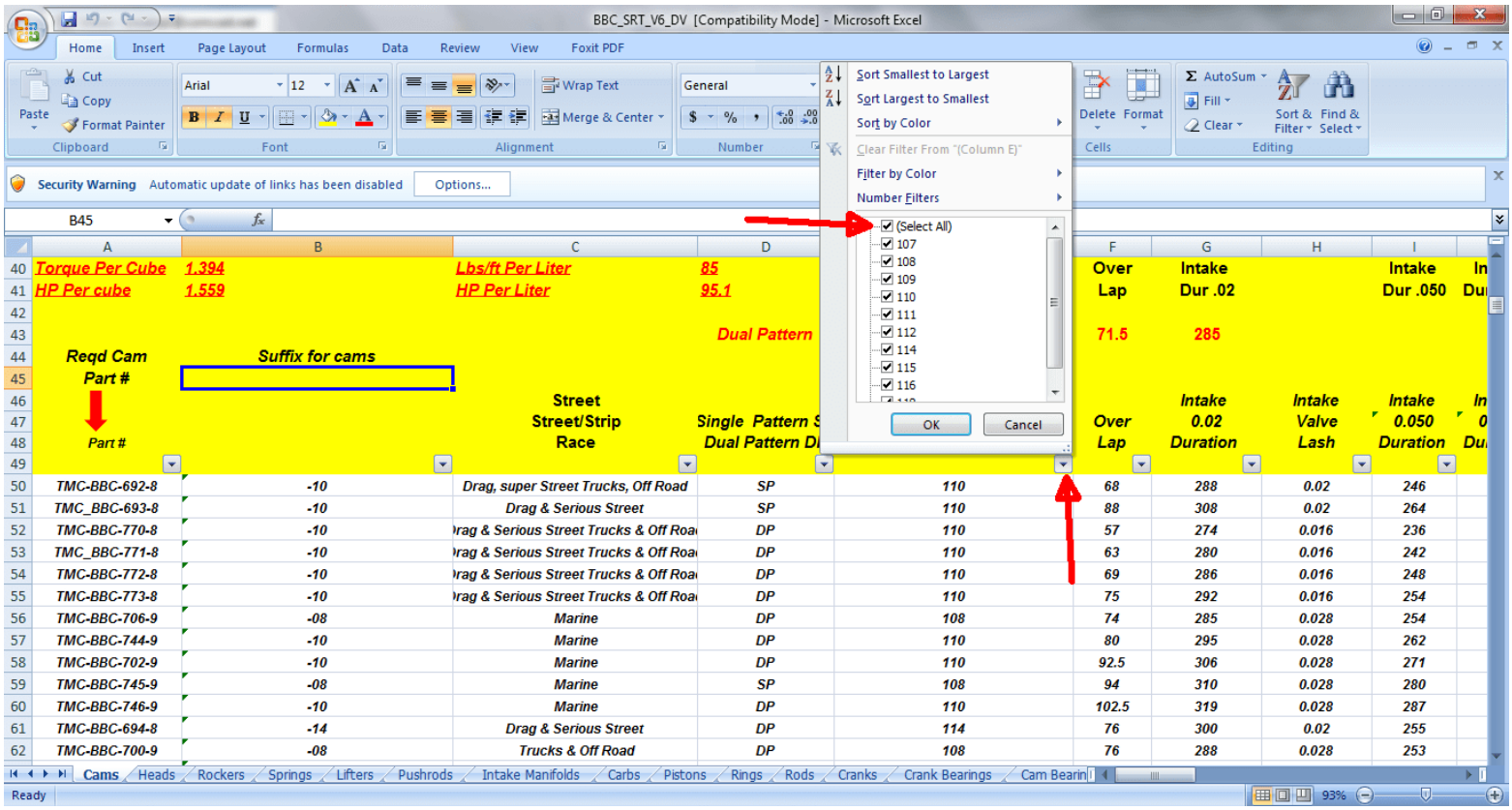
Update Excel After you have Calculated your cam specs you will click this button. It will cause the program to load Excel with the correct spreadsheet and transform the Calculated Cam specs into the spreadsheet.

Previous Screen Lets you go back one screen and change the type of lifter (Hydraulic or Solid, Flat or Roller Tappet) to use and then return to the Calculation screen and do another Calculation without having to reenter your engine specs.

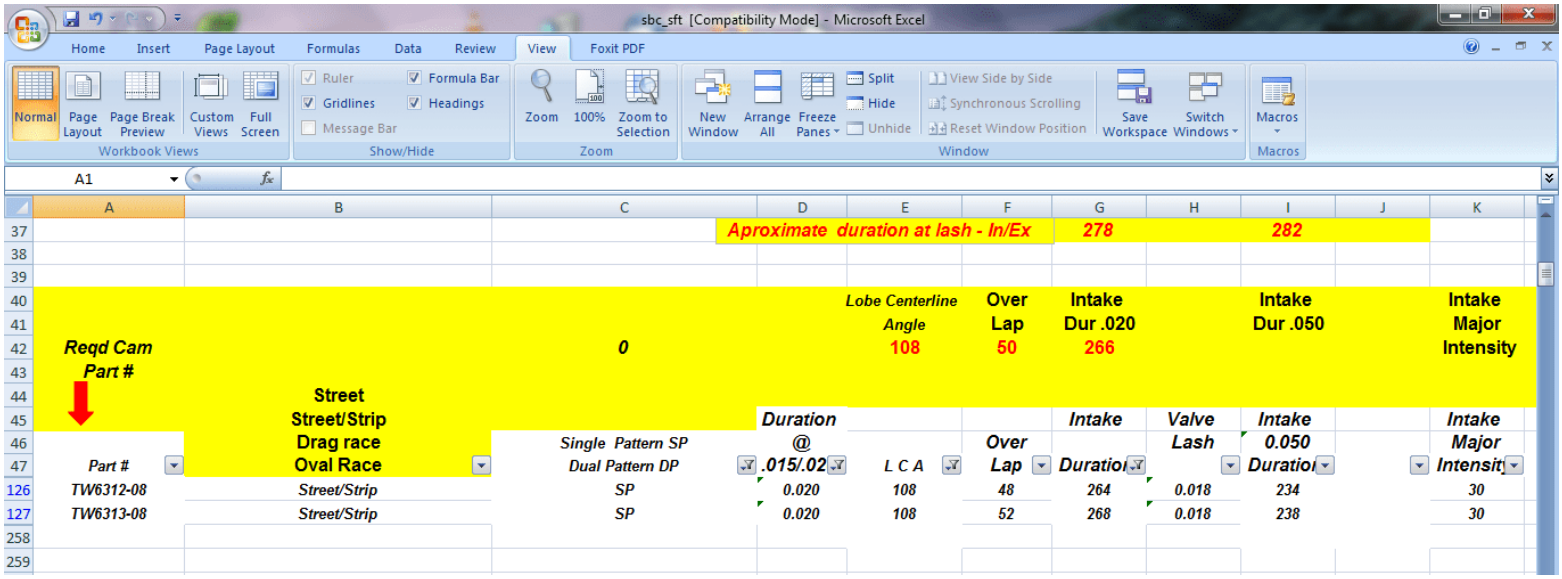
Read Information from File This will Recall all Saved User entered data from a previous Calculated Cam / Engine Combination from a file. Note the calculated data is not filled in and must be recalculated.

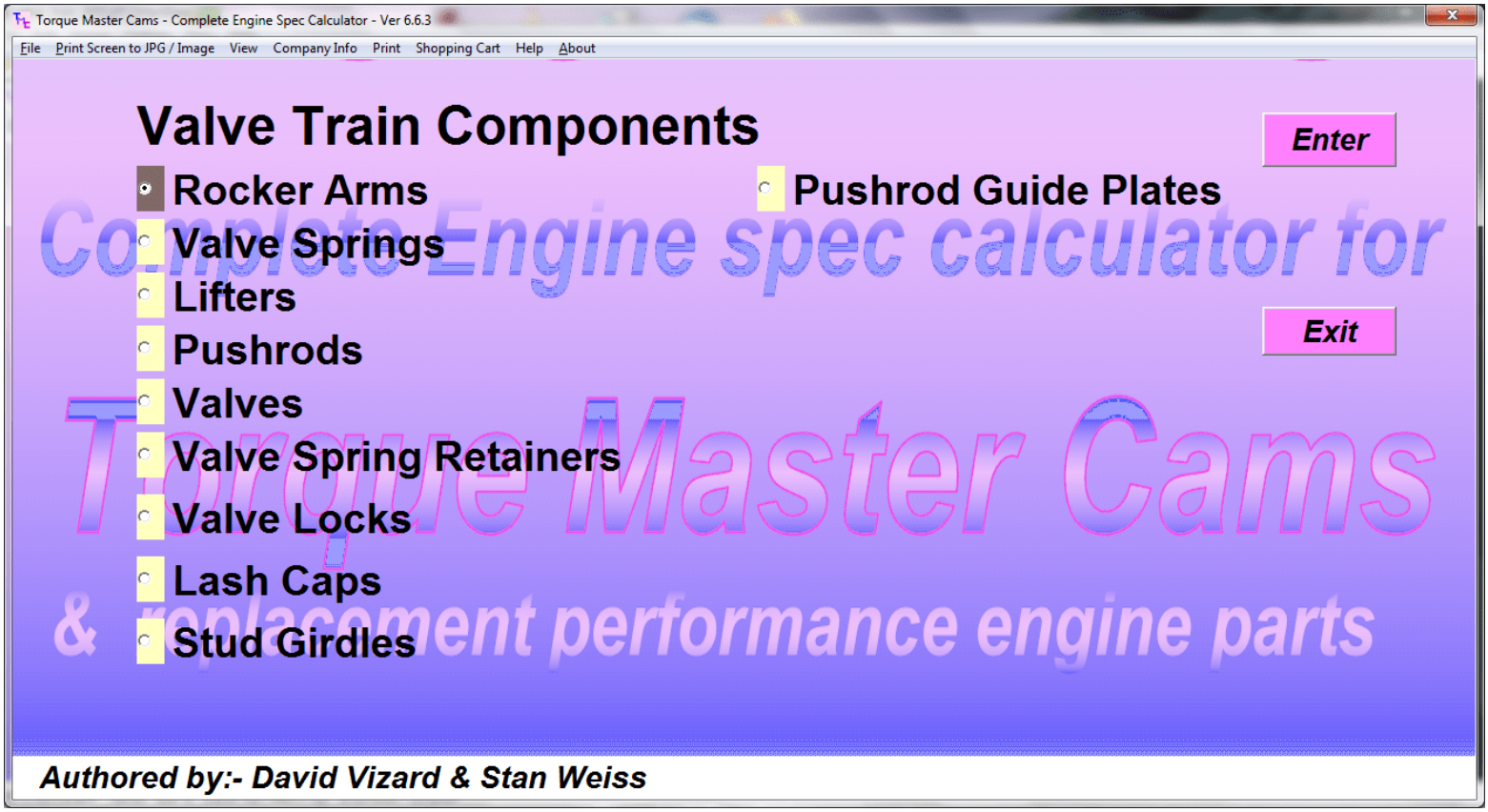
Save Information to a File This will save all User entered data as well as all Calculated data to a file so that it can be recalled at a later date It now also gives the User the option to Save the Shopping Cart Information in the same File.

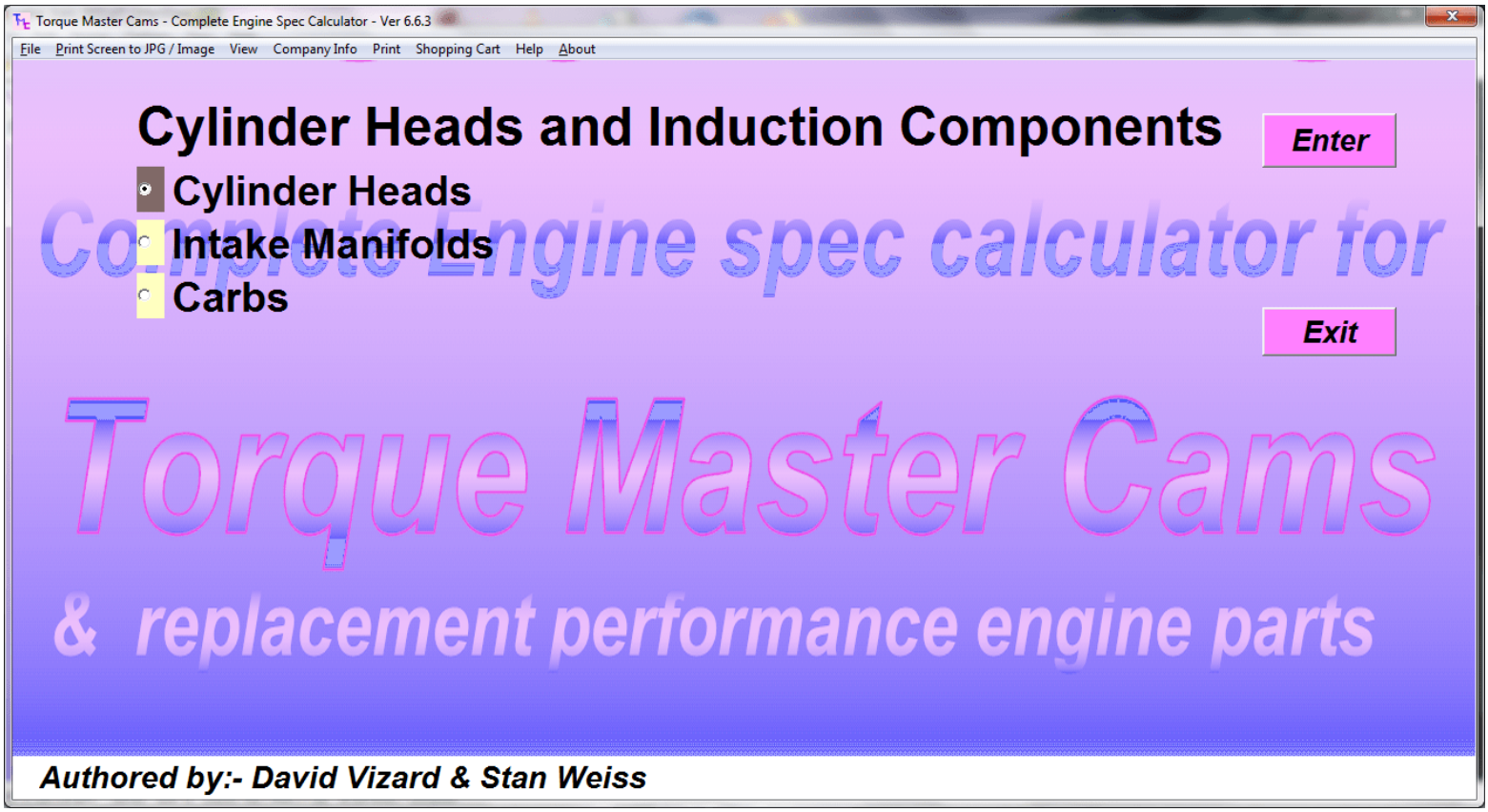
Once you have calculated your cam specs and loaded them into Excel. Now you have to do the work of nearing down the list of cams down to cams that are closest to your specs. OK how do you do this. See picture below. There are 2 red arrows. The bottom points to an arrow in the spreadsheet. When you click on this arrow the shown window pops up. The second red arrow points to the select all which is checked. Un check select all and then click on what ICL was calculated. Lets say a 108 ICL, you could only check 108 or you might also click 107 and 109. When you then click OK this will limit the cams shown to only those ICL. You can then do the same for Intake duration and so on for your other cam specs.

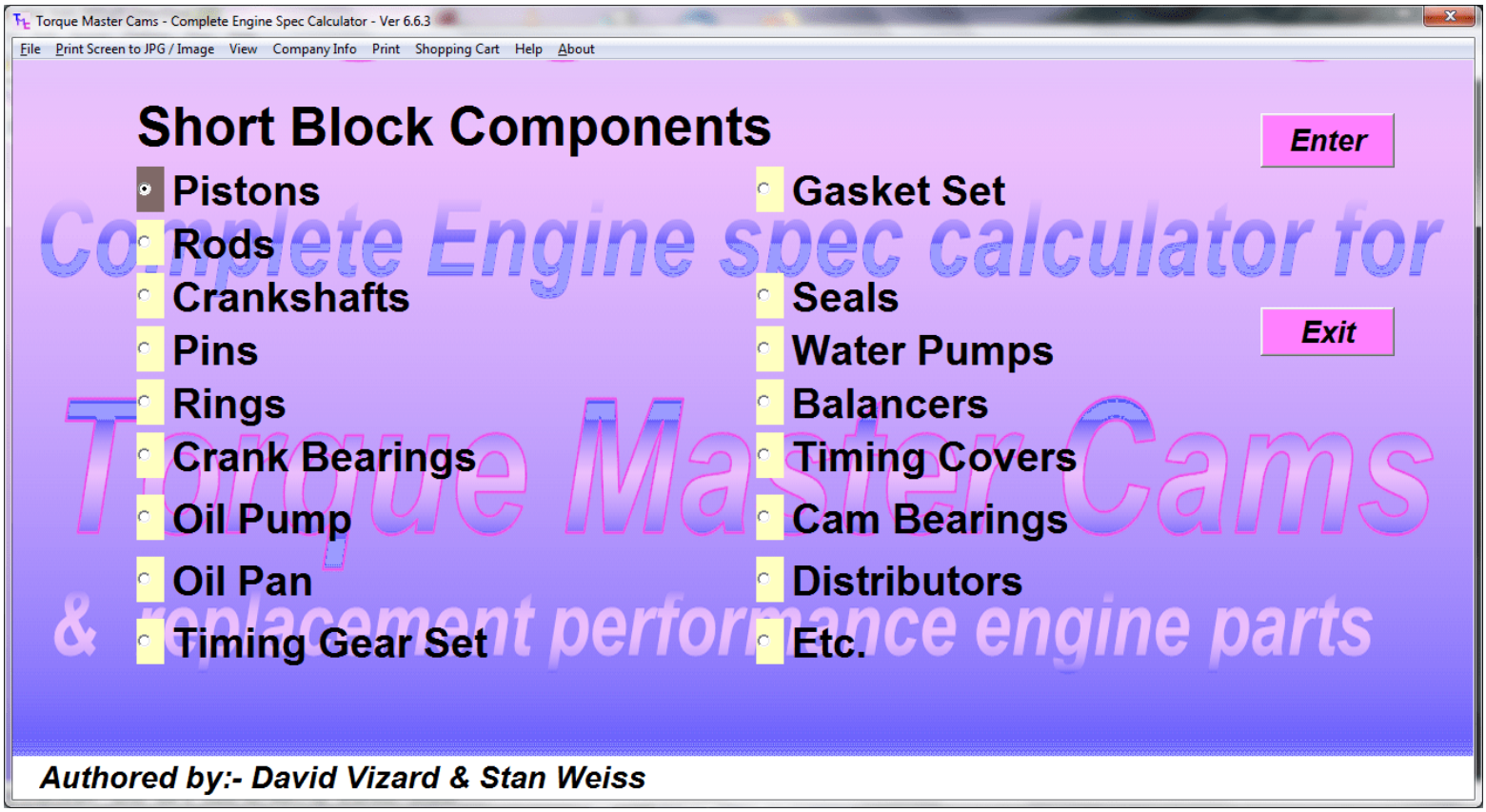


Once you have selected your cam specs, in a few cases there maybe no cam which is a perfect match. Which can be seen in this example. This is why sometimes you will need to use a group in your selection,



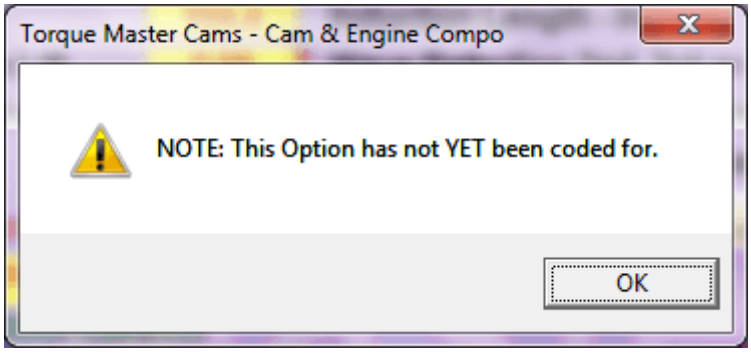

Torque Master Cams - Complete Engine Spec Calculator - Ver 6.6.3
File Print Screen to JPG / Image View Company Info Print Shopping Cart Help About
Valve Train Components
Enter
Rocker Arms
Pushrod Guide Plates
Valve Springs
Lifters
Exit
Pushrods
Valves
Valve Spring Retainers
Valve Locks
Lash Caps
Stud Girdles
Complete Engine spec calculator for
Torque Master Cams
& replacement performance engine parts
Authored by:- David Vizard & Stan Weiss


Torque Master Cams - Complete Engine Spec Calculator - Ver 6.6.3
File Print Screen to JPG / Image View Company Info Print Shopping Cart Help About
Cylinder Heads and Induction Components
Enter
Cylinder Heads
Intake Manifolds
Carbs
Exit
Complete Engine spec calculator for
Torque Master Cams
& replacement performance engine parts
Authored by:- David Vizard & Stan Weiss

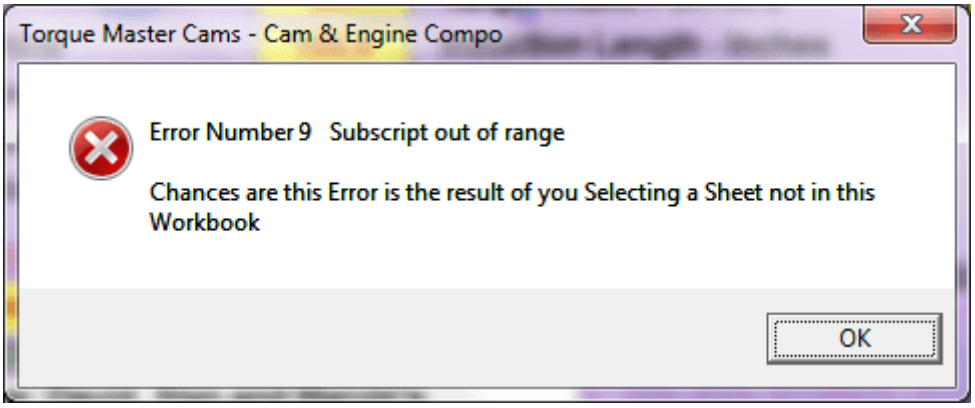


When Selecting Other Components / Performance Parts You may see a couple of different messages.

This one is pretty straight forward. Not all of the Components / Performance Parts have been added to the spreadsheets and coded into the program.

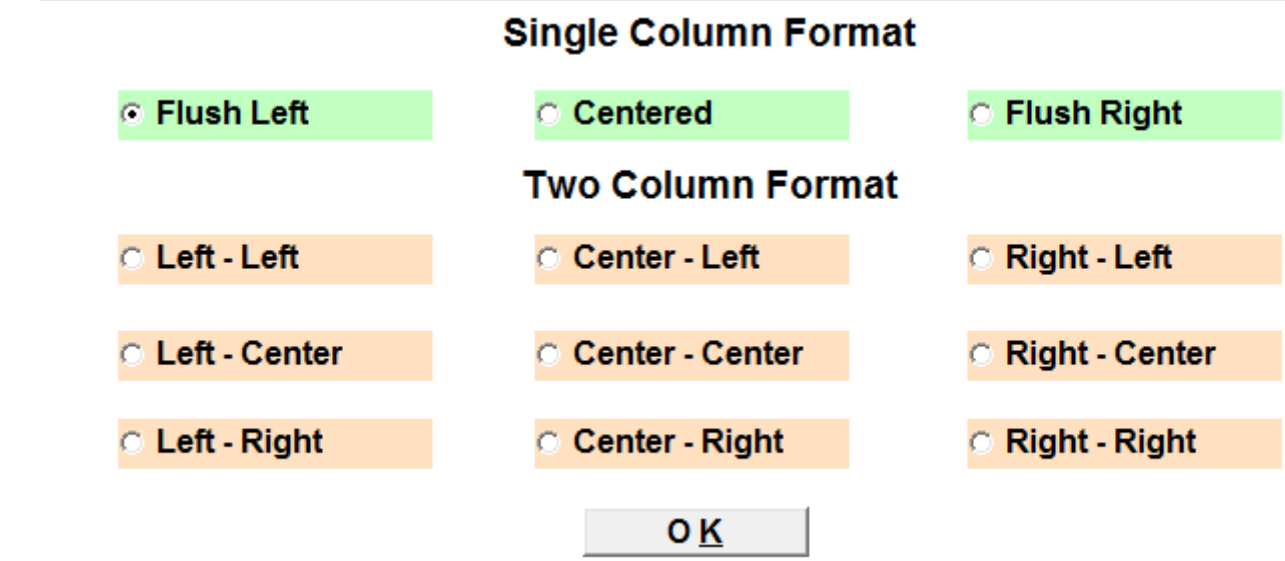


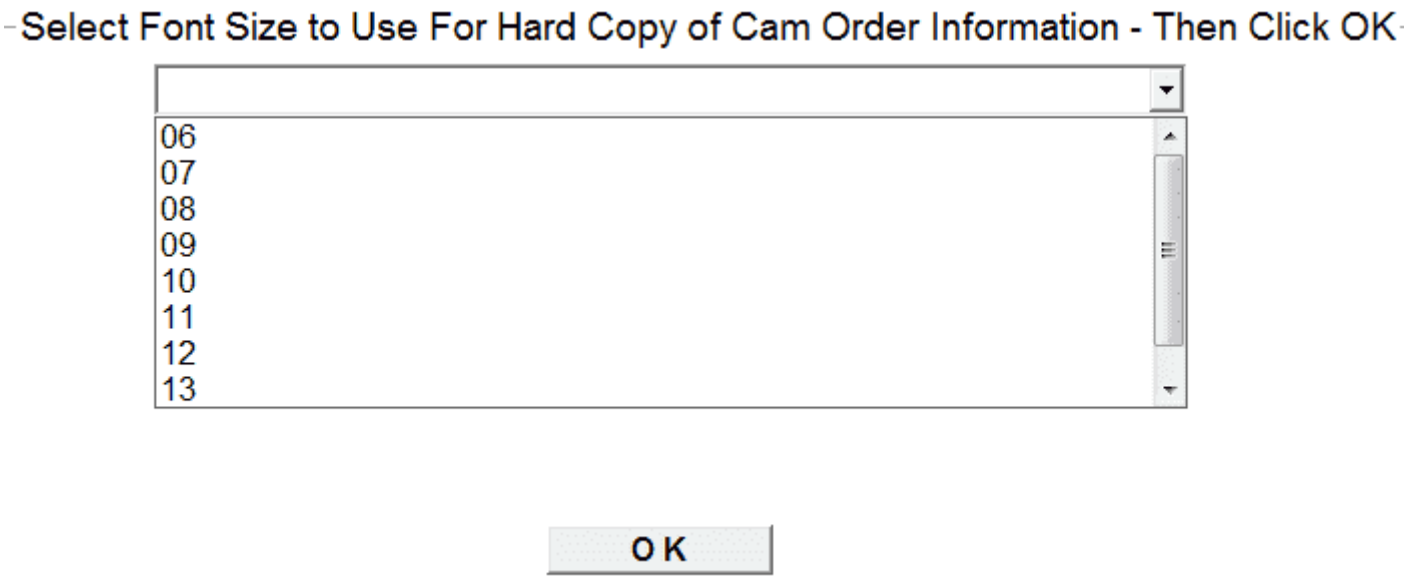
This one is a little different as not all spreadsheets have the same number of Components / Performance Parts added to them at this time.


Torque Master Cams - Cam & Engine Compo
Error Number 9 Subscript out of range
Chances are this Error is the result of you Selecting a Sheet not in this Workbook
OK


Company Information
Company Name
Stan Weiss' Performance Engines LLC
Street Address, City, State, Zip, Phone, Email, ...
We are. Here There and Everywhere - Phone: 123-456-7890 - Email: Weiss@isp.net
Select Color
Exit
Save

Select Style for Hard Copy of Cam Order Information





Sample of Print Hard Copy of Cam Order Information
Single Column – Flush Left

T M C -- David Vizard's - - Torque Master Cams

23 Degree Small Block Chevy Hydraulic Flat Tappet Cam && Engine Component Selector

Customer Name: David, Stan and Marvin's Performance Engines LLC
Address: 987 Any Street
Some City, PA 12345-6789
Phone: 123 456-7890
Email Address: John Doe <BestCamAround@someip.net>

Bore = 4.0
Stroke = 3.6
Cubic Inches = 362
Rod Center to Center Length = 5.8
Intake Valve Diameter = 2.0
Exhaust Valve Diameter = 1.55
Compression Ratio = 11.0
Peak Power RPM = 6250
Peak HP Piston Speed = 3750
Intake Rocker Arm Ratio = 1.65
Exhaust Rocker Arm Ratio = 1.575
Single or Dual Pattern = 0
LCA = 108
0.006 Duration Intake = 290
0.006 Duration Exhaust = 290
Overlap @ 0.006 = 74.0
Advance = 3.6
Intake Centerline = 104.4
Recommended Minimum Intake Valve Lift = 0.56
Recommended Minimum Exhaust Valve Lift = 0.538
Vacuum at Idle = 14.1
Dynamic Compression Ratio = 8.2
Cranking Cylinder Pressure - PSI = 211
Estimated Torque Potential Lbs-Ft = 474
Estimated Power Potential HP = 514
Required Minimum CFM Head Port Flow = 262
Target Intake Port cc's = 186
Total Induction Length - Inches = 11.5
Which Wave Refection 2nd, 3rd, or 4th? = 4
Peak HP RPM from above Induction Length = 6435
Peak Torque RPM from above Induction Length = 5019
Select Appropriate Application = Street

Sample of Print Hard Copy of Cam Order Information
Two Column – Left- Right

T M C -- David Vizard's - - Torque Master Cams

23 Degree Small Block Chevy Hydraulic Flat Tappet Cam && Engine Component Selector

Customer Name: David, Stan and Marvin's Performance Engines LLC
Address: 987 Any Street
Some City, PA 12345-6789
Phone: 123 456-7890
Email Address: John Doe <BestCamAround@someip.net>

Bore	4.0
Stroke	3.6
Cubic Inches	362
Rod Center to Center Length	5.8
Intake Valve Diameter	2.0
Exhaust Valve Diameter	1.55
Compression Ratio	11.0
Peak Power RPM	6250
Peak HP Piston Speed	3750
Intake Rocker Arm Ratio	1.65
Exhaust Rocker Arm Ratio	1.575
Single or Dual Pattern	1
LCA	108
0.006 Duration Intake	290
0.006 Duration Exhaust	295
Overlap @ 0.006	76.5
Advance	3.6
Intake Centerline	104.4
Recommended Minimum Intake Valve Lift	0.56
Recommended Minimum Exhaust Valve Lift	0.538
Vacuum at Idle	13.5
Dynamic Compression Ratio	8.2
Cranking Cylinder Pressure - PSI	211
Estimated Torque Potential Lbs-Ft	474
Estimated Power Potential HP	514
Required Minimum CFM Head Port Flow	262
Target Intake Port cc's	186
Total Induction Length - Inches	11.5
Which Wave Refection 2nd, 3rd, or 4th?	4
Peak HP RPM from above Induction Length	6435
Peak Torque RPM from above Induction Length	5019
Select Appropriate Application =	Street

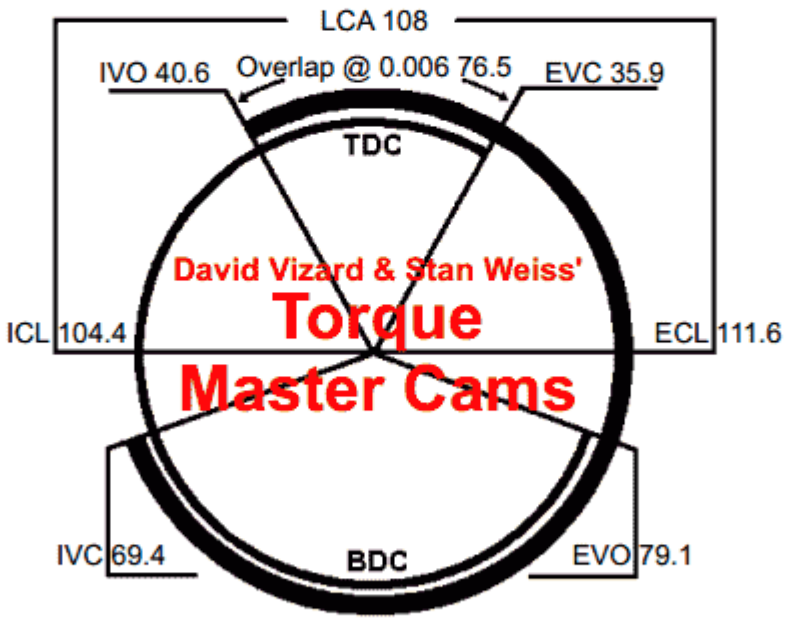
Sample of Print Hard Copy of Cam Card / Calculated

T M C -- David Vizard's -- Torque Master Cams

23 Degree Small Block Chevy Hydraulic Flat Tappet Cam && Engine Component Selector

Order / Invoice #: _____ **Tuesday June 29 2021**

Customer Name:
Address:
City State
Phone:
Email Address:



Advance 3.6
0.006 Duration Intake = 290
0.006 Duration Exhaust = 295
Recommended Minimum Intake Valve Lift = 0.56
Recommended Minimum Exhaust Valve Lift = 0.538

Sample of Print Hard Copy of Cam Card / Excel

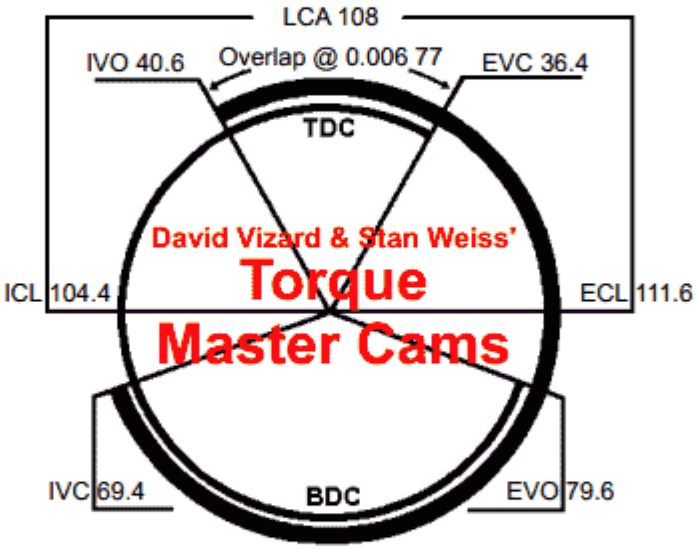
T M C -- David Vizard's -- Torque Master Cams

23 Degree Small Block Chevy Hydraulic Flat Tappet Cam && Engine Component Selector

Order / Invoice #: _____ **Tuesday June 29 2021**

Customer Name:
Address:
City State
Phone:
Email Address:

Cam Part # TSCW5448/5209 Suffix # -08



Advance 3.6

0.006 Duration Intake = 290 -- 0.006 Duration Exhaust = 296

Intake Duration @ 0.050 = 246 -- Exhaust Duration @ 0.050 = 246

0.050 IVO 18.6 / 0.050 IVC 47.4 -- 0.050 EVC 11.4 / 0.050 EVO 54.6

0.050 Overlap 30.0

Recommended Minimum Valve Lift | Intake = 0.56 -- Exhaust = 0.538

Intake Lobe Lift = 0.344 -- Exhaust Lobe Lift = 0.340

Intake Valve Lash = Hyd -- Exhaust Valve Lash = Hdy.

Recommended Minimum Rocker Arm Ratio | Intake = 1.63:1 -- Exhaust = 1.58:1

Recommended Lifter Part # TW858CC Armored face (99grm)

Sample of Print Selected Items in Shopping Cart

T M C -- David Vizard's -- Torque Master Cams

23 Degree Small Block Chevy Hydraulic Flat Tappet Cam && Engine Component Selector

This Selection Prepared by:

Stan Weiss' Performance Engines LLC

We are. Here There and Everywhere - Phone: 123-456-7890 - Email: Weiss@isp.net

Order / Invoice #: _____ **Wednesday January 1 2020**

Customer Name: David, Stan and Marvin's Performance Engines LLC
Address: 987 Any Street
Some City, PA 12345-6789
Phone: 123 456-7890
Email Address: John Doe <BestCamAround@someip.net>

List of Selected Items in Shopping Cart

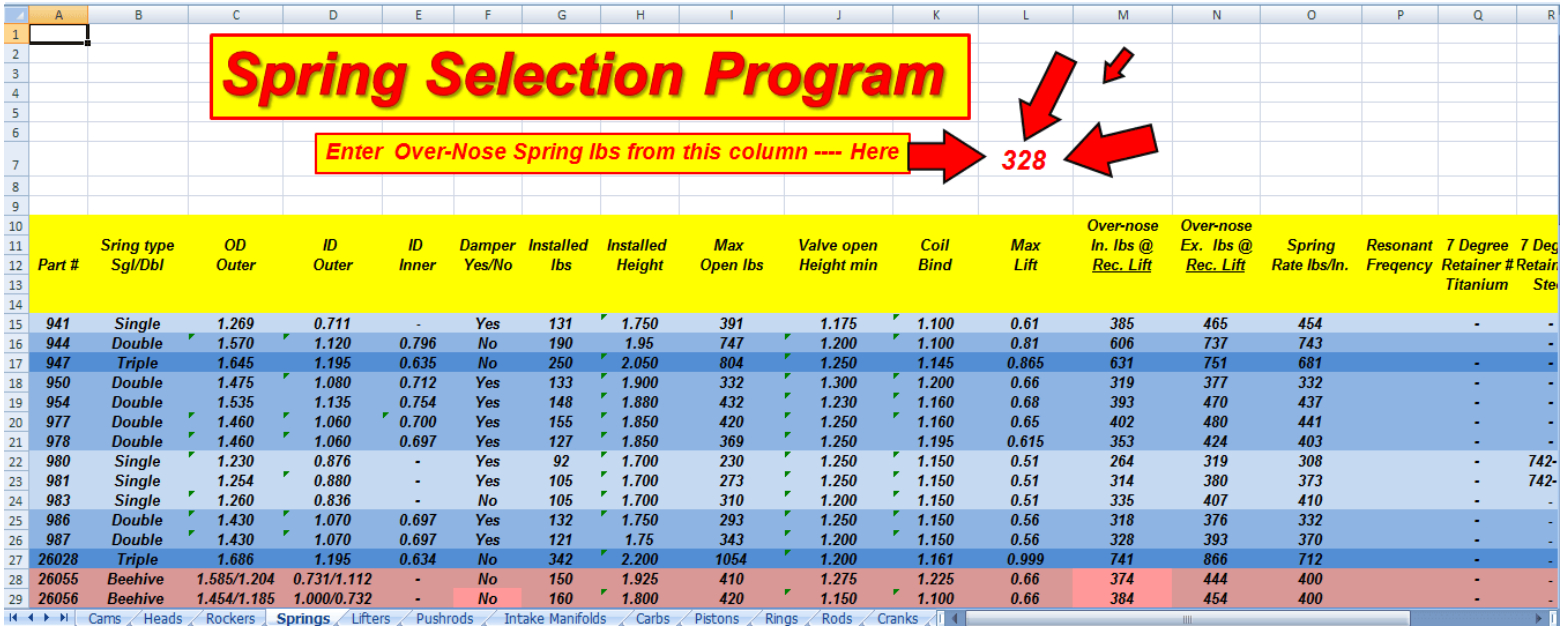
[sbc_hft.xls]Cams!$A$299 - **Part # TSCW5448/5209-08** | -87+ | Street/Strip | DP | 108 | 77 | 290 | Hyd | 246 | 159 | 44
[sbc_hft.xls]Heads!$A$48 - **Part # AFR 0036** | AFR | Aluminum. | 1132-TI | Assembled | CNC | Stock | Angle Plug | 70 | 2.125
[sbc_hft.xls]Carbs!$A$29 - **Part # 850 HO** | AED | 850 | S/S, PS, BR | No | No | Full Cal. M/Block | Yes | Full Cal. M/Block | Ye
'[sbc_hft.xls]Intake Manifolds'!$A$59 - **Part # E2P102** | Edelbrock | Vortec Performer RPM | 71163 | Two Plane | Holley | Stre
[sbc_hft.xls]Rockers!$A$37 - **Part # CCRSBC16-GP-CSS-38-SR** | 12321 | | Comp Cams | Cast Stl Street | 1.6 | 6.7 | 101 | 5
[sbc_hft.xls]Lifters!$A$16 - **Part # HA817HF-LT** | Flat | Hydraulic | Yes | Yes | No | No | N/A | Race | 0 | N/A
[sbc_hft.xls]Pistons!$A$29 - **Part # SBC1000-104** | Icon | IC830 | 2618 | Forged | 305 | 3.736 | 3.48 | Std. 30,40,60 | 1.565 | F
[sbc_hft.xls]Rods!$A$23 - **Part # 2000-108** | Scat | 2-ICR5700PA | 4340 | I Beam | 4600 | 7770 | 8630 | Forged | No | No
[sbc_hft.xls]Cranks!$A$17 - **Part # 2100-102** | Scat | 9-350-375-6000L | Cast Steel | 3.75 | 2.45 | 2.1 | External | 2 | 6.0
[sbc_hft.xls]Rings!$A$16 - **Part # DSM-9903S** | Speed Pro | 4 | 5/64 5/64 3/16 | Plasma Moly | No | Std
'[sbc_hft.xls]Crank Bearings'!$A$12 - **Part # DSM-CR807Si** | King | Large Journal | Silicon Alecular | Rods | Std, .010 .020 .03
[sbc_hft.xls]Pan!$A$18 - **Part # DSM-MIL31505** | Milodon | Road Race & Pro Touring | Pre 80 | | 7 qt
[sbc_hft.xls]Cams!$A$299 - **Part # TSCW5448/5209-08** | -87+ | Street/Strip | DP | 108 | 77 | 290 | Hyd | 246 | 159 | 44
[sbc_hft.xls]Heads!$A$48 - **Part # AFR 0036** | AFR | Aluminum. | 1132-TI | Assembled | CNC | Stock | Angle Plug | 70 | 2.125
[sbc_hft.xls]Carbs!$A$29 - **Part # 850 HO** | AED | 850 | S/S, PS, BR | No | No | Full Cal. M/Block | Yes | Full Cal. M/Block | Ye
'[sbc_hft.xls]Intake Manifolds'!$A$59 - **Part # E2P102** | Edelbrock | Vortec Performer RPM | 71163 | Two Plane | Holley | Stre
[sbc_hft.xls]Rockers!$A$37 - **Part # CCRSBC16-GP-CSS-38-SR** | 12321 | | Comp Cams | Cast Stl Street | 1.6 | 6.7 | 101 | 5

[sbc_hft.xls]Lifters!$A$16 - **Part # HA817HF-LT** | Flat | Hydraulic | Yes | Yes | No | No | N/A | Race | 0 | N/A
[sbc_hft.xls]Pistons!$A$29 - **Part # SBC1000-104** | Icon | IC830 | 2618 | Forged | 305 | 3.736 | 3.48 | Std. 30,40,60 | 1.565 | F
[sbc_hft.xls]Rods!$A$23 - **Part # 2000-108** | Scat | 2-ICR5700PA | 4340 | I Beam | 4600 | 7770 | 8630 | Forged | No | No
[sbc_hft.xls]Cranks!$A$17 - **Part # 2100-102** | Scat | 9-350-375-6000L | Cast Steel | 3.75 | 2.45 | 2.1 | External | 2 | 6.0
[sbc_hft.xls]Rings!$A$16 - **Part # DSM-9903S** | Speed Pro | 4 | 5/64 5/64 3/16 | Plasma Moly | No | Std
'[sbc_hft.xls]Crank Bearings'!$A$12 - **Part # DSM-CR807Si** | King | Large Journal | Silicon Alecular | Rods | Std, .010 .020 .03
[sbc_hft.xls]Pan!$A$18 - **Part # DSM-MIL31505** | Milodon | Road Race & Pro Touring | Pre 80 | | 7 qt
[sbc_hft.xls]Cams!$A$299 - **Part # TSCW5448/5209-08** | -87+ | Street/Strip | DP | 108 | 77 | 290 | Hyd | 246 | 159 | 44
[sbc_hft.xls]Heads!$A$48 - **Part # AFR 0036** | AFR | Aluminum. | 1132-TI | Assembled | CNC | Stock | Angle Plug | 70 | 2.125
[sbc_hft.xls]Carbs!$A$29 - **Part # 850 HO** | AED | 850 | S/S, PS, BR | No | No | Full Cal. M/Block | Yes | Full Cal. M/Block | Ye
'[sbc_hft.xls]Intake Manifolds'!$A$59 - **Part # E2P102** | Edelbrock | Vortec Performer RPM | 71163 | Two Plane | Holley | Stre
[sbc_hft.xls]Rockers!$A$37 - **Part # CCRSBC16-GP-CSS-38-SR** | 12321 | | Comp Cams | Cast Stl Street | 1.6 | 6.7 | 101 | 5
[sbc_hft.xls]Lifters!$A$16 - **Part # HA817HF-LT** | Flat | Hydraulic | Yes | Yes | No | No | N/A | Race | 0 | N/A
[sbc_hft.xls]Pistons!$A$29 - **Part # SBC1000-104** | Icon | IC830 | 2618 | Forged | 305 | 3.736 | 3.48 | Std. 30,40,60 | 1.565 | F

[sbc_hft.xls]Rods!$A$23 - **Part # 2000-108** | Scat | 2-ICR5700PA | 4340 | I Beam | 4600 | 7770 | 8630 | Forged | No | No
[sbc_hft.xls]Cranks!$A$17 - **Part # 2100-102** | Scat | 9-350-375-6000L | Cast Steel | 3.75 | 2.45 | 2.1 | External | 2 | 6.0
[sbc_hft.xls]Rings!$A$16 - **Part # DSM-9903S** | Speed Pro | 4 | 5/64 5/64 3/16 | Plasma Moly | No | Std
'[sbc_hft.xls]Crank Bearings'!$A$12 - **Part # DSM-CR807Si** | King | Large Journal | Silicon Alecular | Rods | Std, .010 .020 .03
[sbc_hft.xls]Pan!$A$18 - **Part # DSM-MIL31505** | Milodon | Road Race & Pro Touring | Pre 80 | | 7 qt

Delete an Item from Shopping Cart

Note: Some of the Excel Spreadsheet also have built in help / Calculations.



Part #	Sring type Sgl/Dbl	OD Outer	ID Outer	ID Inner	Damper Yes/No	Installed lbs	Installed Height	Max Open lbs	Valve open Height min	Coil Bind	Max Lift	Over-nose In. lbs @ Rec. Lift	Over-nose Ex. lbs @ Rec. Lift	Spring Rate lbs/In.	Resonant Freqency	7 Degree Retainer # Titanium	7 Deg Retain Ste
941	Single	1.269	0.711	-	Yes	131	1.750	391	1.175	1.100	0.61	385	465	454		-	-
944	Double	1.570	1.120	0.796	No	190	1.95	747	1.200	1.100	0.81	606	737	743			-
947	Triple	1.645	1.195	0.635	No	250	2.050	804	1.250	1.145	0.865	631	751	681		-	-
950	Double	1.475	1.080	0.712	Yes	133	1.900	332	1.300	1.200	0.66	319	377	332		-	-
954	Double	1.535	1.135	0.754	Yes	148	1.880	432	1.230	1.160	0.68	393	470	437		-	-
977	Double	1.460	1.060	0.700	Yes	155	1.850	420	1.250	1.160	0.65	402	480	441		-	-
978	Double	1.460	1.060	0.697	Yes	127	1.850	369	1.250	1.195	0.615	353	424	403		-	-
980	Single	1.230	0.876	-	Yes	92	1.700	230	1.250	1.150	0.51	264	319	308		-	742-
981	Single	1.254	0.880	-	Yes	105	1.700	273	1.250	1.150	0.51	314	380	373		-	742-
983	Single	1.260	0.836	-	No	105	1.700	310	1.200	1.150	0.51	335	407	410		-	-
986	Double	1.430	1.070	0.697	Yes	132	1.750	293	1.250	1.150	0.56	318	376	332		-	-
987	Double	1.430	1.070	0.697	Yes	121	1.75	343	1.200	1.150	0.56	328	393	370		-	-
26028	Triple	1.686	1.195	0.634	No	342	2.200	1054	1.200	1.161	0.999	741	866	712		-	-
26055	Beehive	1.585/1.204	0.731/1.112	-	No	150	1.925	410	1.275	1.225	0.66	374	444	400		-	-
26056	Beehive	1.454/1.185	1.000/0.732	-	No	160	1.800	420	1.150	1.100	0.66	384	454	400		-	-

Cams | Heads | Rockers | Springs | Lifters | Pushrods | Intake Manifolds | Carbs | Pistons | Rings | Rods | Cranks

Carb Selection Program

Small block Chevy 1955-1994 &1995-2001

Application abreviations:-

S = Street S/S = Street/Strip PS = Pro Street RR = Road Race CT = Circle Track BR = Bracket Race DR = Drag Race

formulas
777.1923
1
1

Manifold type :- Enter 1 for Single Plane and 2 for Dual Plane. → 1

Spacer Type:- Enter 1 for No Spacer or 4 Hole Spacer and 2 for Open Spacer → 1

Required Carb CFM ↓ 777

Part #	Brand	Actuall Carb CFM	Application S, S/S, PS, RR, CT, BR, DR	Choke Yes/No	Vac/Sec Yes/No	Primary Calibration	PRC Calibration Yes/No	Secondary Calibration	PRC Calibration Yes/No	4 Corner Idle Yes/No	Adj. Idle Bld Yes/No	Booster Type	Acc. Pump	Vac. Ports	Acc. Pump
650 HO	AED	650	S/S, PS, BR	No	No	Full Cal. M/Block	Yes	Full Cal. M/Block	Yes	Yes	Yes	Down Leg	Dual	2	Dual
750 HO	AED	750	S/S, PS, BR	No	No	Full Cal. M/Block	Yes	Full Cal. M/Block	Yes	Yes	Yes	Down Leg	Dual	2	Dual
650 HO-EC	AED	650	S/S, PS, BR	Yes	No	Full Cal. M/Block	Yes	Full Cal. M/Block	Yes	Yes	Yes	Down Leg	Dual	2	Dual
750 HO -EC	AED	750	S/S, PS, BR	Yes	No	Full Cal. M/Block	Yes	Full Cal. M/Block	Yes	Yes	Yes	Down Leg	Dual	2	Dual
850 HO	AED	850	S/S, PS, BR	No	No	Full Cal. M/Block	Yes	Full Cal. M/Block	Yes	Yes	Yes	Down Leg	Dual	2	Dual
750 HPHO	AED	750	S/S, PS, RR, CT, BR, DR	No	No	Full Cal. M/Block	Yes	Full Cal. M/Block	Yes	Yes	Yes	Down Leg	Dual	2	Dual
850 HPHO	AED	850	S/S, PS, RR, CT, BR, DR	No	No	Full Cal. M/Block	Yes	Full Cal. M/Block	Yes	Yes	Yes	Down Leg	Dual	2	Dual

Cams | Heads | Rockers | Springs | Lifters | Pushrods | Intake Manifolds | Carbs | Pistons | Rings | Rods | Cranks

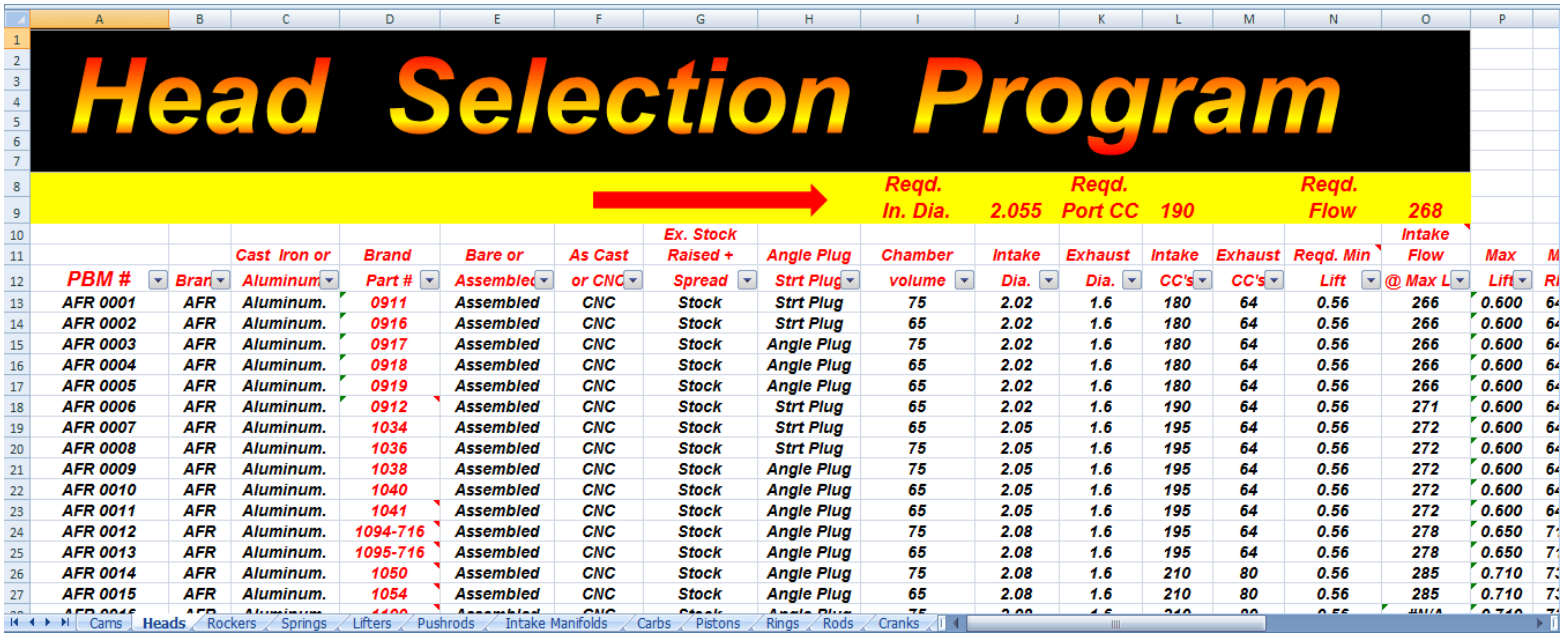
Intake Manifold Selection Program Big Block Chevy 24 degree head

Select an intake manifold that will support at least this HP :- 700

Note ----------Do not select one that goes more than :- 795

Manufacturer	Manifold Description	Man. Part #	Style Two Plane Single Plane	Carb Flange Style	Application	Selected Peak Power RPM from Cam Page (1)	Manifold Manufacturs Peak RPM	Manifold Manufacturs Lower RPM	Estimated Max. useful RPM on Your Motor	Estimated Min. Useful RPM on Your Motor	CID From Cam Page (1)	Approx. HP Limit on Your Motor Stock	Approx. HP Limit on Your Motor Ported
Edelbrock		2161	Two Plane	Dual Flange	Street	6500	5500	1000	4290	600	496	608	644
Edelbrock	RPM Air Gap	7561	Two Plane		Performance	6500	6500	1500	4590	700	496	608	644
Edelbrock	RPM Air Gap	7562	Two Plane		Performance	6500	6500	1500	4590	700	496	608	644
Edelbrock	Super Victor	2927	Single Plane	4500	Race	6500	8500	3500	5110	1500	496	608	644
Edelbrock	Super Victor	2916	Single Plane	4500	Race	6500	8500	3500	5110	1500	496	608	644
Brodix		HV 2017	Dual Plane	4150	Performance	6500	6800	3000	4670	1500	496	608	644
Brodix		2017	Single Plane	4500	Race	6500	8400	4000	5080	1700	496	608	644
Brodix		2017-R	Single Plane	4500	Race	6500	8400	4000	5080	1700	496	608	644
Brodix		2027	Single Plane	4500	Race	6500	8400	4000	5080	1700	496	608	644
Brodix		2027-R	Single Plane	4500	Race	6500	8400	4000	5080	1700	496	608	644

Note: Some of the Excel Spreadsheet other built in Selections

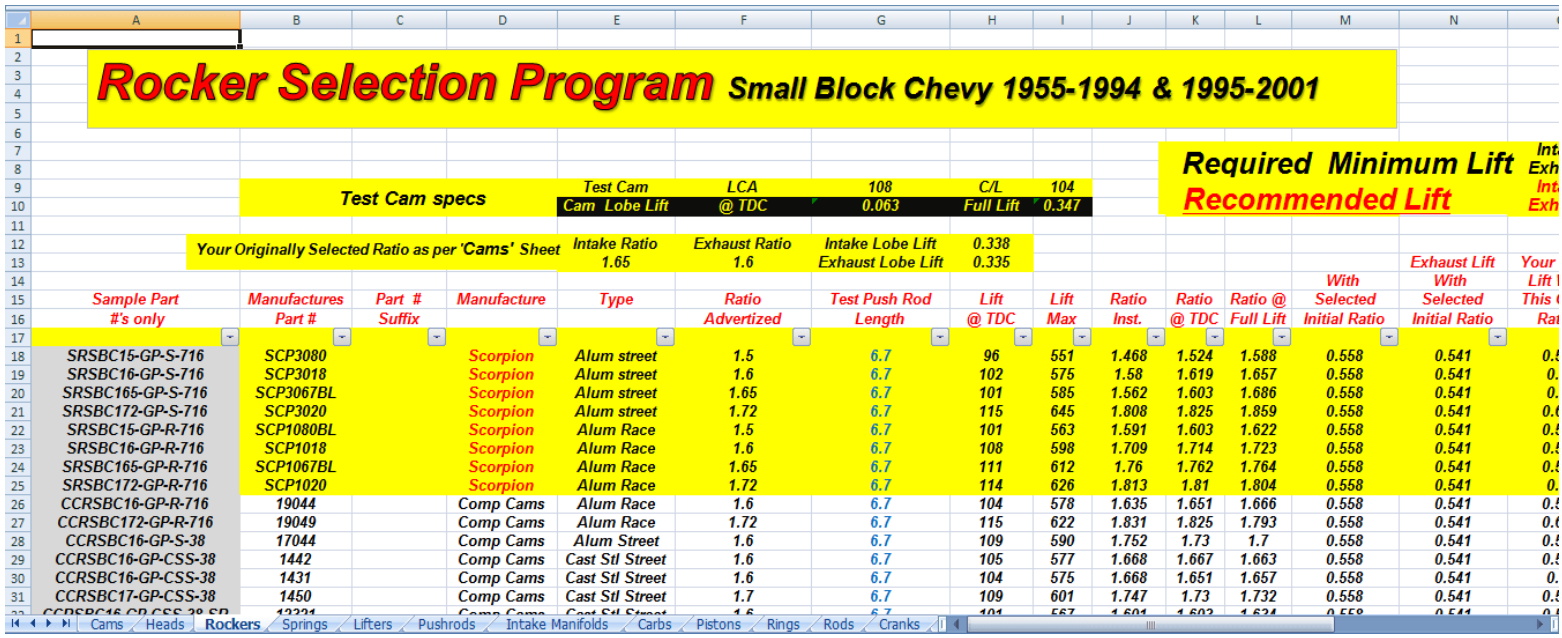


Head Selection Program

Reqd. In. Dia. 2.055 | Reqd. Port CC 190 | Reqd. Flow 268

PBM #	Brand	Cast Iron or Aluminum	Brand Part #	Bare or Assembled	As Cast or CNC	Ex. Stock Raised + Spread	Angle Plug Strt Plug	Chamber volume	Intake Dia.	Exhaust Dia.	Intake CC's	Exhaust CC's	Reqd. Min Lift	Intake Flow @ Max L	Max Lift	M Ri
AFR 0001	AFR	Aluminum.	0911	Assembled	CNC	Stock	Strt Plug	75	2.02	1.6	180	64	0.56	266	0.600	64
AFR 0002	AFR	Aluminum.	0916	Assembled	CNC	Stock	Strt Plug	65	2.02	1.6	180	64	0.56	266	0.600	64
AFR 0003	AFR	Aluminum.	0917	Assembled	CNC	Stock	Angle Plug	75	2.02	1.6	180	64	0.56	266	0.600	64
AFR 0004	AFR	Aluminum.	0918	Assembled	CNC	Stock	Angle Plug	65	2.02	1.6	180	64	0.56	266	0.600	64
AFR 0005	AFR	Aluminum.	0919	Assembled	CNC	Stock	Angle Plug	65	2.02	1.6	180	64	0.56	266	0.600	64
AFR 0006	AFR	Aluminum.	0912	Assembled	CNC	Stock	Strt Plug	65	2.02	1.6	190	64	0.56	271	0.600	64
AFR 0007	AFR	Aluminum.	1034	Assembled	CNC	Stock	Strt Plug	65	2.05	1.6	195	64	0.56	272	0.600	64
AFR 0008	AFR	Aluminum.	1036	Assembled	CNC	Stock	Strt Plug	75	2.05	1.6	195	64	0.56	272	0.600	64
AFR 0009	AFR	Aluminum.	1038	Assembled	CNC	Stock	Angle Plug	75	2.05	1.6	195	64	0.56	272	0.600	64
AFR 0010	AFR	Aluminum.	1040	Assembled	CNC	Stock	Angle Plug	65	2.05	1.6	195	64	0.56	272	0.600	64
AFR 0011	AFR	Aluminum.	1041	Assembled	CNC	Stock	Angle Plug	65	2.05	1.6	195	64	0.56	272	0.600	64
AFR 0012	AFR	Aluminum.	1094-716	Assembled	CNC	Stock	Angle Plug	75	2.08	1.6	195	64	0.56	278	0.650	71
AFR 0013	AFR	Aluminum.	1095-716	Assembled	CNC	Stock	Angle Plug	65	2.08	1.6	195	64	0.56	278	0.650	71
AFR 0014	AFR	Aluminum.	1050	Assembled	CNC	Stock	Angle Plug	75	2.08	1.6	210	80	0.56	285	0.710	73
AFR 0015	AFR	Aluminum.	1054	Assembled	CNC	Stock	Angle Plug	65	2.08	1.6	210	80	0.56	285	0.710	73

Cams | Heads | Rockers | Springs | Lifters | Pushrods | Intake Manifolds | Carbs | Pistons | Rings | Rods | Cranks



Rocker Selection Program — Small Block Chevy 1955-1994 & 1995-2001

Test Cam specs

Test Cam Lobe Lift	LCA @ TDC	108	C/L Full Lift	104
		0.063		0.347

Your Originally Selected Ratio as per 'Cams' Sheet

Intake Ratio	Exhaust Ratio	Intake Lobe Lift	0.338
1.65	1.6	Exhaust Lobe Lift	0.335

Required Minimum Lift
Recommended Lift

Sample Part #'s only	Manufactures Part #	Part # Suffix	Manufacture	Type	Ratio Advertized	Test Push Rod Length	Lift @ TDC	Lift Max	Ratio Inst.	Ratio @ TDC	Ratio @ Full Lift	With Selected Initial Ratio	Exhaust Lift With Selected Initial Ratio	Your Lift This
SRSBC15-GP-S-716	SCP3080		Scorpion	Alum street	1.5	6.7	96	551	1.468	1.524	1.588	0.558	0.541	0.5
SRSBC16-GP-S-716	SCP3018		Scorpion	Alum street	1.6	6.7	102	575	1.58	1.619	1.657	0.558	0.541	0.
SRSBC165-GP-S-716	SCP3067BL		Scorpion	Alum street	1.65	6.7	101	585	1.562	1.603	1.686	0.558	0.541	0.
SRSBC172-GP-S-716	SCP3020		Scorpion	Alum street	1.72	6.7	115	645	1.808	1.825	1.859	0.558	0.541	0.0
SRSBC15-GP-R-716	SCP1080BL		Scorpion	Alum Race	1.5	6.7	101	563	1.591	1.603	1.622	0.558	0.541	0.5
SRSBC16-GP-R-716	SCP1018		Scorpion	Alum Race	1.6	6.7	108	598	1.709	1.714	1.723	0.558	0.541	0.5
SRSBC165-GP-R-716	SCP1067BL		Scorpion	Alum Race	1.65	6.7	111	612	1.76	1.762	1.764	0.558	0.541	0.5
SRSBC172-GP-R-716	SCP1020		Scorpion	Alum Race	1.72	6.7	114	626	1.813	1.81	1.804	0.558	0.541	0.
CCRSBC16-GP-R-716	19044		Comp Cams	Alum Race	1.6	6.7	104	578	1.635	1.651	1.666	0.558	0.541	0.5
CCRSBC172-GP-R-716	19049		Comp Cams	Alum Race	1.72	6.7	115	622	1.831	1.825	1.793	0.558	0.541	0.0
CCRSBC16-GP-S-38	17044		Comp Cams	Alum Street	1.6	6.7	109	590	1.752	1.73	1.7	0.558	0.541	0.5
CCRSBC16-GP-CSS-38	1442		Comp Cams	Cast Stl Street	1.6	6.7	105	577	1.668	1.667	1.663	0.558	0.541	0.5
CCRSBC16-GP-CSS-38	1431		Comp Cams	Cast Stl Street	1.6	6.7	104	575	1.668	1.651	1.657	0.558	0.541	0.
CCRSBC17-GP-CSS-38	1450		Comp Cams	Cast Stl Street	1.7	6.7	109	601	1.747	1.73	1.732	0.558	0.541	0.5

Cams | Heads | Rockers | Springs | Lifters | Pushrods | Intake Manifolds | Carbs | Pistons | Rings | Rods | Cranks

Lifter Selection Program

Flat & Roller, Solid & Hydraulic **0.842 lifters** for small block Chevy's

Part #	Flat or Roller	Hydraulic or Solid	Limited Travel Yes/No	Hard Faced Yes/No	Center Lube Hole	Light Weight Yes/No	Roller Dia.	Rec. Usage	Off-set	Link Bar Type	Max Spring Load Lbs.	Fitment Stock Replacement Retro-fit	Speci
HA817	Flat	Hydraulic	No	No	No	No	N/A	Street	0	N/A	340	SR	
HA817HF	Flat	Hydraulic	No	Yes	No	No	N/A	Street	0	N/A	360	RF	
HA817LT	Flat	Hydraulic	Yes	No	No	No	N/A	Street/Strip	0	N/A	340	RF	
HA817HF-LT	Flat	Hydraulic	Yes	Yes	No	No	N/A	Race	0	N/A	360	RF	
ML535	Flat	Solid	Yes	No	Yes	No	N/A	Race	0	N/A	380	RF	
ML536	Flat	Solid	Yes	No	No	No	N/A	Race	0	N/A	380	RF	
SL929	Roller	Hydraulic	No	N/A	N/A	No	0.700	Street	0	Dog-bone	400	SR	
SL930	Roller	Hydraulic	No	N/A	N/A	No	0.700	Street	0	Vertical	400	RF	
SL931	Roller	Hydraulic	No	N/A	N/A	No	0.700	Street	0	Vertical	400	RF	
RL930-1	Roller	Hydraulic	No	N/A	N/A	No	0.700	Race	0	Vertical	450	RF	
RL934	Roller	Hydraulic	Yes	N/A	N/A	No	0.750	Race	0	Vertical	650	RF	
RL920	Roller	Solid	N/A	N/A	N/A	No	0.750	Race	0.180R	Vertical	750	RF	0.300 taller for BowT

Cams | Heads | Rockers | Springs | Lifters | Pushrods | Intake Manifolds | Carbs | Pistons | Rings | Rods | Cranks

Pushrod Selection Program

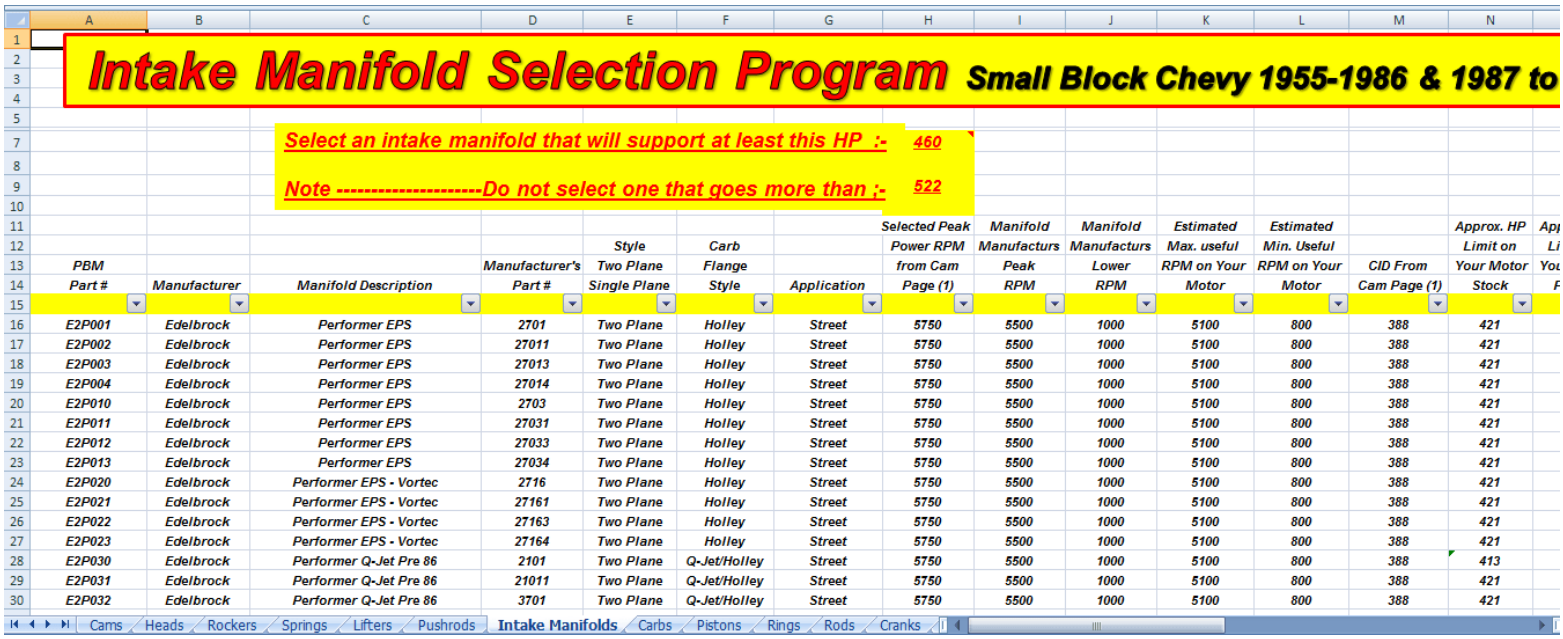
Target RPM 6250

Full lift spring lbs 374

Automatic fill from

Only Part #'s	Material	O.D.	Length	Wall Thickness	Tip Dia.	Tip Radius Angle	Guide Plate Compatable Yes	Style Parallel Tapered	Usage Catagory	Full Lift lbs Limit	Rec. RPM Limit	Notes
1622-8	1010	5/16	6.250	0.065	5/16	210	Yes	Parl.	#1	400	6800	Mild performance street with hydralic cams.
1620-8	1010	5/16	6.804	0.065	5/16	210	Yes	Parl.	#1	400	6800	Mild performance street with hydralic cams.
1621-8	1010	5/16	6.876	0.065	5/16	210	Yes	Parl.	#1	400	6800	Mild performance street with hydralic cams.
1631-8	1010	5/16	7.205	0.065	5/16	210	Yes	Parl.	#1	400	6800	Mild performance street with hydralic cams.
1632-8	1010	5/16	7.266	0.065	5/16	210	Yes	Parl.	#1	400	6800	Mild performance street with hydralic cams.
1640-8	1010	5/16	7.500	Solid	5/16	210	Yes	Parl.	#1	450	7000	Mild performance street with hydralic cams.
1601-8	1010	5/16	7.800	0.065	5/16	210	Yes	Parl.	#1	400	6800	Mild performance street with hydralic cams.
1602-8	1010	5/16	7.900	0.065	5/16	210	Yes	Parl.	#1	400	6800	Mild performance street with hydralic cams.
1610-8	1010	3/8	7.701	0.065	5/16	210	Yes	Parl.	#1	475	7250	Performance street & street/strip with milder semi r
1603-8	1010	3/8	8.280	0.065	5/16	210	Yes	Parl.	#1	475	7250	Performance street & street/strip with milder semi r
1611-8	1010	3/8	8.682	0.065	5/16	210	Yes	Parl.	#1	475	7250	Performance street & street/strip with milder semi r
1604-8	1010	3/8	9.25	0.065	5/16	210	Yes	Parl.	#1	475	7250	Performance street & street/strip with milder semi r
1913-8	4340	5/16	6.000	0.080	5/16	210	Yes	Parl.	#2	600	9000	Performance street, street/strip & race.

Cams | Heads | Rockers | Springs | Lifters | Pushrods | Intake Manifolds | Carbs | Pistons | Rings | Rods | Cranks



Intake Manifold Selection Program Small Block Chevy 1955-1986 & 1987 to

Select an intake manifold that will support at least this HP :- 460

Note ----------Do not select one that goes more than ;- 522

PBM Part #	Manufacturer	Manifold Description	Manufacturer's Part #	Style Two Plane Single Plane	Carb Flange Style	Application	Selected Peak Power RPM from Cam Page (1)	Manifold Manufacturs Peak RPM	Manifold Manufacturs Lower RPM	Estimated Max. useful RPM on Your Motor	Estimated Min. Useful RPM on Your Motor	CID From Cam Page (1)	Approx. HP Limit on Your Motor Stock	Ap Li You
E2P001	Edelbrock	Performer EPS	2701	Two Plane	Holley	Street	5750	5500	1000	5100	800	388	421	
E2P002	Edelbrock	Performer EPS	27011	Two Plane	Holley	Street	5750	5500	1000	5100	800	388	421	
E2P003	Edelbrock	Performer EPS	27013	Two Plane	Holley	Street	5750	5500	1000	5100	800	388	421	
E2P004	Edelbrock	Performer EPS	27014	Two Plane	Holley	Street	5750	5500	1000	5100	800	388	421	
E2P010	Edelbrock	Performer EPS	2703	Two Plane	Holley	Street	5750	5500	1000	5100	800	388	421	
E2P011	Edelbrock	Performer EPS	27031	Two Plane	Holley	Street	5750	5500	1000	5100	800	388	421	
E2P012	Edelbrock	Performer EPS	27033	Two Plane	Holley	Street	5750	5500	1000	5100	800	388	421	
E2P013	Edelbrock	Performer EPS	27034	Two Plane	Holley	Street	5750	5500	1000	5100	800	388	421	
E2P020	Edelbrock	Performer EPS - Vortec	2716	Two Plane	Holley	Street	5750	5500	1000	5100	800	388	421	
E2P021	Edelbrock	Performer EPS - Vortec	27161	Two Plane	Holley	Street	5750	5500	1000	5100	800	388	421	
E2P022	Edelbrock	Performer EPS - Vortec	27163	Two Plane	Holley	Street	5750	5500	1000	5100	800	388	421	
E2P023	Edelbrock	Performer EPS - Vortec	27164	Two Plane	Holley	Street	5750	5500	1000	5100	800	388	421	
E2P030	Edelbrock	Performer Q-Jet Pre 86	2101	Two Plane	Q-Jet/Holley	Street	5750	5500	1000	5100	800	388	413	
E2P031	Edelbrock	Performer Q-Jet Pre 86	21011	Two Plane	Q-Jet/Holley	Street	5750	5500	1000	5100	800	388	421	
E2P032	Edelbrock	Performer Q-Jet Pre 86	3701	Two Plane	Q-Jet/Holley	Street	5750	5500	1000	5100	800	388	421	

Cams | Heads | Rockers | Springs | Lifters | Pushrods | Intake Manifolds | Carbs | Pistons | Rings | Rods | Cranks

Piston Rings

Part #	Brand	Bore Size	Ring Thickness	Ring Type	File Fit	Tension
DSM-299K	Speed Pro	4.12	5/64 5/64 3/16	Plasma Moly	No	Std
DSM-299K20	Speed Pro	4.14	5/64 5/64 3/16	Plasma Moly	No	Std
DSM-299K40	Speed Pro	4.16	5/64 5/64 3/16	Plasma Moly	No	Std
DSM-299X	Speed Pro	4.12	5/64 5/64 3/16	Cast Iron	No	Std
DSM-299X30	Speed Pro	4.15	5/64 5/64 3/16	Cast Iron	No	Std
DSM-248-5	Speed Pro	4.125	1/16 1/16 3/16	Plasma Moly	Yes	Std
DSM-248-25	Speed Pro	4.145	1/16 1/16 3/16	Plasma Moly	Yes	Std
DSM-248-35	Speed Pro	4.155	1/16 1/16 3/16	Plasma Moly	Yes	Std
DSM-248-45	Speed Pro	4.165	1/16 1/16 3/16	Plasma Moly	Yes	Std
DSM-248-65	Speed Pro	4.185	1/16 1/16 3/16	Plasma Moly	Yes	Std
DSM-904-30	Speed Pro	4.28	1/16 1/16 3/16	Plasma Moly	No	Std
DSM-904-60	Speed Pro	4.31	1/16 1/16 3/16	Plasma Moly	No	Std
DSM-745-35	Speed Pro	4.28	1/16 1/16 3/16	Plasma Moly	Yes	Std
DSM-745-65	Speed Pro	4.31	1/16 1/16 3/16	Plasma Moly	Yes	Std

Cams | Heads | Rockers | Springs | Lifters | Pushrods | Intake Manifolds | Carbs | Pistons | Rings | Rods | Cranks

Rod Selection Program - 24 Degree Big Block Chevy

Your selected rod length:- **6.385**

PBM PART #	Brand	Manufactures Part #	Material	Rod Style	Max Piston Speed Ft/Min	Endurance Race RPM Limit With Your Stroke & Power	Drag Race RPM limit With your Stroke & Power	Forged Billet	100% Surface Machined	Stroker Clearanced	Rod Length	Pin Dia.	Pin Fit	Journal Dia.	Big End Width	Bolt Type	Bolt Dia.	Bolt Brand	Bolt Material	Weight Grams
2000-100	Eagle		4340	H Beam	4300	5670	6290	Forged	Yes	No	6.135		Bushed			Cap Screw	7/16	ARP	8740	780
2000-200	Eagle		4340	H Beam	4300	5670	6290	Forged	Yes	No	6.385		Bushed			Cap Screw	7/16	ARP	8740	750
2000-300	Eagle		4340	H Beam	4300	5670	6290	Forged	Yes	No	6.535		Bushed			Cap Screw	7/16	ARP	8740	805
2000-400	Eagle		4340	H Beam	4300	5670	6290	Forged	Yes	No	6.7		Bushed			Cap Screw	7/16	ARP	8740	815
2000-500	Eagle		4340	H Beam	4300	5670	6290	Forged	Yes	No	6.8		Bushed			Cap Screw	7/16	ARP	8740	840
2010-100	Scat		4340	H Beam	4300	5670	6290	Forged	Yes	No	6.135		Bushed			Cap Screw	7/16	ARP	8740	
2010-200	Scat		4340	H Beam	4300	5670	6290	Forged	Yes	No	6.135		Bushed			Cap Screw	7/16	ARP	2000	
2010-300	Scat		4340	H Beam	4300	5670	6290	Forged	Yes	No	6.385		Bushed			Cap Screw	7/16	ARP	8740	
2010-400	Scat		4340	H Beam	4300	5670	6290	Forged	Yes	No	6.385		Bushed			Cap Screw	7/16	ARP	2000	
2010-500	Scat		4340	I Beam	4300	5670	6290	Forged	No	No	6.385		Bushed			Cap Screw	7/16	ARP	8740	790
2010-600	Scat		4340	I Beam	4300	5670	6290	Forged	No	No	6.7		Bushed			Cap Screw	7/16	ARP	8740	815

Crank Selection Program 24 Degree Big Block Chevy

TMC #	Brand	Manufactures Part #	Production Method	Stroke Inches	Mains Dia.	Big End Dia.	Balance Internal External	Rear Seals 1 or 2	Rec Rod Length	Notes
2100-100	Eagle		Forged 4340	3.766	454		Internal	2	6.135 up	Non-Twist Nitrided Require Narrowed Bearins
2100-200	Eagle		Forged 4340	4	454		Internal	2	6.135 up	Non-Twist Nitrided Require Narrowed Bearins
2100-300	Eagle		Forged 4340	4.25	454		Internal	2	6.385 up	Non-Twist Center Counter Weight Nitrided Require Narrowed Bearins
2100-400	Eagle		Forged 4340	4.25	454		Internal	1	6.385 up	Non-Twist Center Counter Weight Nitrided Require Narrowed Bearins
2100-500	Eagle		Forged 4340	4.5	454		Internal	2	6.535 up	Non-Twist Center Counter Weight Nitrided Require Narrowed Bearins
2100-600	Eagle		Cast Steel	4	454		External	2	6.135 up	
2100-700	Eagle		Cast Steel	4	454		External	1	6.135 up	
2100-800	Eagle		Cast Steel	4.25	454		External	2	6.385 up	
2100-900	Eagle		Cast Steel	4.25	454		External	1	6.385 up	
2110-100	Scat		Forged 4340	4	454		External	2	6.135 up	Nitrided Require Narrowed Bearins
2110-200	Scat		Forged 4340	4	454		Internal	2	6.135 up	Nitrided Require Narrowed Bearins
2110-300	Scat		Forged 4340	4.25	454		Internal	2	6.385 up	Nitrided Require Narrowed Bearins
2110-400	Scat		Forged 4340	4.25	454		Internal	1	6.385 up	Nitrided Require Narrowed Bearins
2110-500	Scat		Forged 4340	4.5	454		Internal	2	6.535 up	Nitrided Require Narrowed Bearins
2110-600	Scat		Cast Steel	4	454		Internal	2	6.135 up	Replacement Crank

Cams | Heads | Rockers | Springs | Lifters | Pushrods | Intake Manifolds | Carbs | Pistons | Rings | Rods | **Cranks** | Crank Bearings | Cam Bearin

Crank Bearing Selection Program Big Block Chevy

Part #	Brand	Crank Size		Type	Sizes	Notes
DSM-CR807Si	King		Silicon Alecular	Rods	Std, .010 .020 .030	
DSM-MB556Si	King		Silicon Alecular	Mains	Std, .010 .020 .030	
DSM-CR808XPN	King		XP Series	Rods	Std, .010 1X	
DSM-CR808XPND	King		XP Series	Rods	Std, .010 1X	w/Dowel
DSM-MB556XPN	King		XP Series	Mains	Std, .010 1X	
DSM-CB743P	Clevite 77		TriMetal	Rods	Std, .010 .020 .030 .040	
DSM-MS829P	Clevite 77		TriMetal	Mains	Std, .010 .020 .030 .040	
DSM-CB743HN	Clevite 77		H-Series	Rods	Std, .001 .009 .010 .011 .020 .021 .030	
DSM-CB743HND	Clevite 77		H-Series	Rods	Std, .001 .009 .010 .011	w/Dowel
DSM-CB743HXND	Clevite 77		H-Series	Rods	1 Extra	
DSM-MS829H	Clevite 77		H-Series	Mains	Std, .001 .009 .010 .011 .020 .021 .030	
DSM-CB743V	Clevite 77		V-Series	Rods	Std,	
DSM-CB743VND	Clevite 77		V-Series	Rods	Std, 1X	w/Dowel
DSM-CB743HNK	Clevite 77		Moly/Graphite Coated	Rods	Std, 1X	
DSM-CB743HNDK	Clevite 77		Moly/Graphite Coated	Rods	Std,	w/Dowel
DSM-MS829HK	Clevite 77		Moly/Graphite Coated	Mains	Std, .001 .010 1X	
DSM-8B743A	Aluglide		TriMetal	Rods	Std, .001 .010 .020 .030	
DSM-5M829A	Aluglide		TriMetal	Mains	Std, .001 .010 .020 .030	

Cams | Heads | Rockers | Springs | Lifters | Pushrods | Intake Manifolds | Carbs | Pistons | Rings | Rods | Cranks | **Crank Bearings** | Cam Bearin

Cam Bearing Selection Program

Big Block Chevy

Part #	Brand	Size	Material	Notes
DSM-CS524BB	King	Std	Silicon Alecular	
DSM-SH616S	Clevite 77	Std	TriMetal	67 Up
DSM-SH615S	Clevite 77	Std	TriMetal	65-66
DSM-DURCHP-12	Dura-Bond	Std	High Perf	Also World Merlin III
DSM-DURGMP-12	Dura-Bond	Std	High Perf	Bowie and Dart Big M
DSM-DURCHP-12T	Dura-Bond	Std	Coated	Also World Merlin III

Oil Pan Selection Program Big Block Chevy

Part #	Brand	Style	Years		Capacity	Notes
DSM-MIL30710	Milodon	Stock Replacement	64-90			
DSM-MIL31100	Milodon	Deep Profile	Mark IV		7 qt. 9 1/2" Depth	
DSM-MIL31105	Milodon	Deep Profile	Gen V VI		7 qt. 9 1/2" Depth	
DSM-MIL30950	Milodon	Low Profile	Mark IV		7 qt. 8 1/2" Depth	
DSM-MIL30955	Milodon	Low Profile	Gen V VI		7 qt. 8 1/2" Depth	
DSM-MIL30970	Milodon	Extra Low Profile	Mark IV		6 qt. 7 3/4""Depth	
DSM-MIL30975	Milodon	Extra Low Profile	Gen V VI		6 qt. 7 3/4" Depth	
DSM-MIL31187	Milodon	Stepped Sump	Mark IV		6 qt. 8 1/2" Depth	
DSM-MIL31185	Milodon	Stepped Sump	Gen V VI		6 qt. 8 1/2" Depth	
DSM-MIL31195	Milodon	Full Sump	Mark IV		8 qt. 7 3/4" Depth	
DSM-MOR20451	Moroso	Deep Sump	Mark IV		7 qt. 9" Depth	Up to 4.25" Stroke with Steel Rods
DSM-MOR20460	Moroso	Deep Sump	Mark IV		8 qt. 9 1/4" Depth	Up to 4.25" Stroke with Steel Rods
DSM-MOR21047	Moroso	Kickout	Mark IV		7 qt. 8" Depth	
DSM-MOR20032	Moroso	Full Sump	Mark IV		7 qt. 7 3/4" Depth	

Pan | Oil Pump | Gasket Kit | Water Pump | Distributor | Etc. | Valves | Retainers | Valve Locks | Lash Caps | Stud Girdles | Guide Plates

Oil Pump Selection Program

Big Block Chevy

Part #	Brand	Type	Notes
DSM-MEL10778	Melling	25% More Volume	
DSM-MEL10778C	Melling	25% More Volume Anti-Cavitation	
DSM-MOR22101	Moroso	Std Volume	
DSM-MOR22160	Moroso	High Volume	
DSM-MOR22162	Moroso	High Volume Anti-Cavitation	
DSM-MOR22195	Moroso	7 3/4" Pan High Volume	With Pickup
DSM-MOR22175	Moroso	8" Pan Std Volume	With Pickup
DSM-MOR22185	Moroso	8" Pan High Volume	With Pickup
DSM-MIL18760	Milodon	High Volume	

Valve Selection Program Big Block Chevy

PART#	Brand	Intake Exhaust	Valve Size	Stem Size	Length	Tip Size	Material	Description
DSM-Man11520	Manley	Intake	2.19	3/8	5.218 Std	0.22	NK-844	Chrome Stems, Hard Tip, Swirl Polished
DSM-Man11802	Manley	Intake	2.25	11/32	5.244 Std	0.25	NK-844	Chrome Stems, Hard Tip, Swirl Polished
DSM-Man11850	Manley	Intake	2.25	11/32	5.344 +.1	0.25	NK-844	Chrome Stems, Hard Tip, Swirl Polished
DSM-Man11562	Manley	Intake	2.25	3/8	5.218 Std	0.25	NK-844	Chrome Stems, Hard Tip, Swirl Polished
DSM-Man11524	Manley	Intake	2.25	3/8	5.325 +.1	0.25	NK-844	Chrome Stems, Hard Tip, Swirl Polished
DSM-Man11842	Manley	Intake	2.3	11/32	5.344 +.1	0.22	NK-844	Chrome Stems, Hard Tip, Swirl Polished
DSM-Man11854	Manley	Intake	2.3	11/32	5.494 +.25	0.22	NK-844	Chrome Stems, Hard Tip, Swirl Polished
DSM-Man11878	Manley	Intake	2.3	11/32	5.61 +.35	0.22	NK-844	Chrome Stems, Hard Tip, Swirl Polished
DSM-Man11582	Manley	Intake	2.4	11/32	6.60	0.25	NK-844	Dart Big Chief / Brodix Big Duke Chrome Stems, Hard Tip, Swirl Polished
DSM-Man11843	Manley	Exhaust	1.88	11/32	5.244 Std	0.25	XH-428	Chrome Stems, Hard Tip, Swirl Polished
DSM-Man11815	Manley	Exhaust	1.88	11/32	5.522 +.1	0.25	XH-428	Chrome Stems, Hard Tip, Swirl Polished
DSM-Man11863	Manley	Exhaust	1.88	3/8	5.354 Std	0.22	XH-428	Chrome Stems, Hard Tip, Swirl Polished
DSM-Man11811	Manley	Exhaust	1.88	3/8	5.474 +.1	0.22	XH-428	Chrome Stems, Hard Tip, Swirl Polished
DSM-Man11582	Manley	Exhaust	1.9	11/32	6.38	0.25	XH-428	Dart Big Chief / Brodix Big Duke Chrome Stems, Hard Tip, Swirl Polished
DSM-Man11743	Manley	Exhaust	1.88	11/32	5.422 Std	0.25	Inconel	
DSM-Man11737	Manley	Exhaust	1.88	11/32	5.522 +.1	0.25	Inconel	
DSM-Man11739	Manley	Exhaust	1.9	11/32	5.522 +.1	0.25	Inconel	

Pan | Oil Pump | Gasket Kit | Water Pump | Distributor | Etc. | Valves | Retainers | Valve Locks | Lash Caps | Stud Girdles | Guide Plates

Retainer Selection Program Big Block Chevy

Part #	Brand	Spring Type	Diam 1	Diam 2	Diam 3	Diam 4	Valve Size	Lock Angle	Material	Description
TMC-CC750	Comp Cams	Dual	1.24	1.05	0.69		All	10	4140 Chromemoly	Super Lock TM
TMC-CC747	Comp Cams	Dual	1.4	1.05	0.69		All	10	4140 Chromemoly	Super Lock TM
TMC-CC740	Comp Cams	Dual	1.4	1.06	0.69		All	10	4140 Chromemoly	Super Lock TM
TMC-CC748	Comp Cams	Dual	1.5	1.095	0.71		All	10	4140 Chromemoly	Super Lock TM
TMC-CC746	Comp Cams	Triple	1.5	1.12	0.83	0.64	All	10	4140 Chromemoly	Super Lock TM
TMC-CC749	Comp Cams	Dual	1.5	1.125	0.74		All	10	4140 Chromemoly	Super Lock TM
TMC-CC1718	Comp Cams	Dual	1.375	1.035	0.71		All	10	Tool Steel	
TMC-CC1730	Comp Cams	Dual	1.375	1.065	0.7		All	10	Tool Steel	
TMC-CC1731	Comp Cams	Dual	1.387	1.1	0.8		All	10	Tool Steel	
TMC-CC1732	Comp Cams	Dual	1.45	1.1	0.71		All	10	Tool Steel	
TMC-CC731	Comp Cams	Dual	1.437	1.1	0.8		All	10	Titanium	
TMC-CC721	Comp Cams	Dual	1.437	1.108	0.708		All	10	Titanium	Lightweight
TMC-CC722	Comp Cams	Triple	1.437	1.178	0.868	0.637	All	10	Titanium	Lightweight
TMC-CC720	Comp Cams	Dual	1.437	1.098	0.798		All	10	Titanium	Lightweight
TMC-CC732	Comp Cams	Dual	1.5	1.11	0.71		All	10	Titanium	
TMC-CC738	Comp Cams	Dual	1.5	1.12	0.73		All	10	Titanium	
TMC-CC727	Comp Cams	Dual	1.5	1.12	0.745		All	10	Titanium	

Cam Bearings | Pan | Oil Pump | Gasket Kit | Water Pump | Distributor | Etc. | Valves | **Retainers** | Valve Locks | Lash Caps

Valve Lock Selection Program

Part #	Brand	Valve Size	Lock Angle	Description
DSM-600-16	Comp Cams	5/16"	7	Hardened Steel, Single Groove
DSM-601-16	Comp Cams	11/32"	7	Hardened Steel, Single Groove
DSM-603-16	Comp Cams	3/8"	7	Hardened Steel, Single Groove
DSM-628-16	Comp Cams	5/16"	7	Machined Steel, Single Groove
DSM-648-16	Comp Cams	11/32"	7	Machined Steel, Single Groove
DSM-641-16	Comp Cams	3/8"	7	Machined Steel, Single Groove
DSM-636-16	Comp Cams	11/32"	8	Titanium Super 7
DSM-610-16	Comp Cams	5/16"	10	w/ Lash Cap Recess
DSM-611-16	Comp Cams	11/32"	10	w/ Lash Cap Recess
DSM-612-16	Comp Cams	3/8"	10	w/ Lash Cap Recess
DSM-637-16	Comp Cams	5/16"	10	Titanium Super 10 w/ Lash Cap Recess
DSM-638-16	Comp Cams	11/32"	10	Titanium Super 10 w/ Lash Cap Recess
DSM-13085-16	MANLEY	5/16"	8	Super 7 +.050 Height
DSM-13083-16	MANLEY	11/32"	8	Super 7 Std Height
DSM-13081-16	MANLEY	11/32"	8	Super 7 +.050 Height

Cam Bearings | Pan | Oil Pump | Gasket Kit | Water Pump | Distributor | Etc. | Valves | Retainers | **Valve Locks** | Lash Caps

Valve Lash Caps Selection

Part #	Brand	Valve Size	Overall Head Heigh	Thickness	Material
DSM-AFR6609	AFR	8 mm		.080"	
DSM-CC8MM	Comp Cams	8 mm		.080"	
DSM-4007	Comp Cams	5/16"	.230"	.080"	
DSM-4008	Comp Cams	11/32"	.210'	.080"	
DSM-4001	Comp Cams	3/8"	0.19	.080"	
DSM-99420	Crane Cams	5/16"		.060"	
DSM-86120	Crower	5/16"		.060"	Steel
DSM-86121	Crower	11/32"		.060"	Steel
DSM-HRC93200	Howard	5/16"		.080"	Chrome Moly
DSM-HRC93205	Howard	11/32"		.080"	Chrome Moly
DSM-HRC93210	Howard	3/8"		.080"	Chrome Moly
DSM_KM6200	K_Motion	5/16"		.060"	Steel
DSM-8710416	Lunati	3/8"		.080"	
DSM-MAN42125	Manley	8 mm		.080"	4140
DSM-MAN42139	Manley	5/16"		.080"	4140
DSM-MAN42101	Manley	5/16"		.080"	Steel
DSM-MAN42104	Manley	11/32"		.080"	Steel

Cam Bearings | Pan | Oil Pump | Gasket Kit | Water Pump | Distributor | Etc. | Valves | Retainers

Distributor Selection Program

Big Block Chevy

Part #	Brand	
DSM-1000	Pertronix HEI	W Vacuum Aadvance
DSM-1001	Pertronix HEI	W Vacuum Aadvance
DSM-1071	Pertronix HEI	W/O Vacuum Aadvance
DSM-10711	Pertronix HEI	Billet W Vacuum Aadvance
DSM-710711	Pertronix	Digital - Billet - W Vacuum Aadvance
DSM-85551	MSD	Billet Racing
DSM-8360	MSD	Rev Limiter - Billet - W Vacuum Aadvance
DSM-8362	MSD HEI	W Vacuum Aadvance
DSM-8365	MSD HEI	Billet - W Vacuum Aadvance
DSM-MOR72231	Moroso	W/O Vacuum Aadvance