This system dates back to the 1101 series STIHL BL model chain saw, the first one man saw STIHL ever produced, in 1952.

Becoming familiar with this system is of great benefit to anyone at the dealership that works with parts lookup or repair.

The structure of the eleven digit part number of any STIHL part includes the series code, the first four numbers, a group code, which is the middle three numbers, and then the last four numbers which ultimately define the part number of the item. It is possible that several parts may share the same number for the first seven numbers or more of the part number.

Also be aware that some model number designations are now being repeated. STIHL manufactured a FS 80, series 4112 trimmer/brushcutter from 1977 through 1986, and there was a more recent version of the 4137 series designated FS 80 from 1996 through 2005. The first FS 90 was a 4117 series unit, made in 1982, and now there is a 4180 series FS 90 also. It should be obvious when looking at the unit as to it’s age, but there may be an opportunity for confusion if talking on the phone, or if the machine is not present.
Model Designations

- All current STIHL products have a two letter code as part of the model designation.

- This designation is based on the German name of the product such as these examples:
  - MS = Motorsäge Chain Saw
  - FS = Freischneider Line Trimmer
  - BG = Blasgerät Handheld Blower
  - BR = Blasgerät Rückentragbar Backpack Blower
  - TS = Trennschleifer Cut Off Machine

- This was not always the case for chain saws; Starting in 2000 a gradual change was made from the number only system that started with a 0 to the letter with number system such as these examples:
  - 017 became MS 170
  - 020 became MS 200
  - 046 became MS 460

The change to the chain saw model designation was made to bring that product in line with all the other products as far as a model designation went, and also to allow room for the model number to go up as new models came out that were specific replacements for previous models.

Examples of this would be the MS 170 being replaced by the MS 171. At some time in the future the MS 171 might be replaced by a MS 172, or the model might jump to a MS 173.

Be aware that not all older chain saws with a numbered model were replaced by a new chain saw with a similar number. For example the 1118 series 028 chain saw was dropped from production in 1990. The 1133 series MS 280 was introduced in 2002 but is not considered a direct replacement for the 028, nor does it share any parts with the 028 chain saw.

However, the 017 and the MS 170 are both 1130 series chain saws. The MS 171 is a 1139 series chain saw and while it is a replacement for the MS 170, it is a new design and does not directly share any major parts with a MS 170. Typically a new replacement model of any product will have a new series number assigned to it.
The First Four Digits... XXXX xxx xxxx

- All STIHL parts have an eleven digit part number
- While not a hard and fast rule, generally parts designed specifically for a certain product series are given a "series-related" part number and the first four numbers will be the series number
- Sometimes a part will carry over from one series number to another, such as the rings for a BR 420, 4203 series blower
  - The BR 340 has a 41mm bore and the piston rings are 4203 034 3000
  - The BR 420 has a 46mm bore and the piston rings are 1118 034 3001, which were originally introduced on the 1118 series, 028 chain saw

Any part introduced for a specific series will have that series number as it’s first four digits. Once these numbers are recognized it is easy to see what machine a part was originally introduced for. This can be of benefit when trying to decide if aged inventory is worth keeping, or if a group of parts is purchased in a sale or auction, or even a customer coming in with a part in their hand.

However, often a part from an earlier series will be used on a newer product, and therefore eliminates the need to have yet another new part introduced.

Another example of this would be the 4128 350 0505 fuel cap for a 4140 series trimmer, such as a FS 45, FS 46, or FS 55. The 4128 series clearing saw, FS 450, was the first to use this part. When the 4140 was introduced a year later, this cap was already in the system, and was used on this series, as well as numerous other units including blowers, trimmers, the BT 120 earth auger, and other models as well.
The First Four Digits...  XXXX xxx xxxx

- On the other hand, parts used for multiple applications and considered “near standard” parts, such as pins, special screws, washers, grommets, and springs, are denoted by 4 zeros, such as the fuel pickup body 0000 350 3500

- The part numbers of standardized parts, such as bearings, screws, or nuts, start with a 9, such as the 9022 341 1050 spline screw

Some parts are standard items bought from vendors, such as screws, spark plugs, or bearings. Parts may be designed for multiple applications, such as fuel pickup bodies or fuel filler caps. These items will not have a series specific part number.
The middle three digits may define a group code for a part or assembly.
Typically the group code is used only for parts with a series-related part number.

Some Common Group Codes

- 003 bearings, seals
- 007 kits
- 020 cylinders, crankcases
- 029 cylinders, crankcase gaskets
- 030 pistons, crankshafts
- 034 piston rings, wrist pins
- 080 shrouds, fan wheels, housings
- 120 carburetors, air filters, flanges
- 129 intake gaskets
- 140 mufflers
- 149 exhaust gaskets
- 160 – 162 clutch parts
- 180 – 185 throttle, choke parts
- 190 – 195 starter, rewind parts
- 350 gas caps, fuel filters
- 351 fuel tank assemblies
- 358 fuel lines
- 400 ignition modules
- 640 sprockets, sprocket covers, oil pump parts

The above is a partial list of the more common group codes.
Piston rings for any series product will usually have the series number followed by 034, as illustrated above. There are some exceptions, such as the blower rings mentioned earlier, but the middle three numbers will always be 034.

Carburetors will always have 120 as the middle three numbers of the part number. Knowing this system means that in many cases the first seven digits of a part number can be understood without looking at a parts list. However, it will be necessary to look up any part to determine the most current and accurate part number completely.
The Middle Three Digits... xxxx XXX xxxx

- Example:
  - Rings for a 4282 series BR 600 are part number 4282 034 3000
  - Rings for a 1122 series MS 660 are part number 1122 034 3000
  - All piston rings have 034 as the middle three numbers

- Always look up the part number by application, to be sure to get the right rings for the bore size of the engine being repaired

Recall that the 1118 034 3001 rings not only fit the 028 chain saw, but also the BR 420 backpack blower. Rings will always have 034 as the middle three numbers, but the series number does not always match the application. Be sure to always look up the part with the current parts list to avoid errors.
The last segment contains four digits that identify the various components that make up the entire assembly that is designated by the middle three numbers; these four digits provide a specific identification of the parts used in the assembly, and will indicate if the part has changed to a new version.

Example:
- 4180 020 1200 was the first cylinder produced for the FS 110, and was superseded by 4180 020 1202, and then was changed again and currently is 4180 020 1203
- 4137 020 1201 is the first cylinder produced for the FS 85, and has been superseded by 4137 020 1202

Anytime a change is made to a part, the last four numbers will reflect that change; usually by going up to a higher number.

The new number may or may not be capable of replacing the previous number, and a Tech Bulletin will explain the change and whether the part is interchangeable or not by serial number.

While there is a system for assigning each of the last four numbers to a part, the system is complex and a detailed explanation is of no value for everyday use. The last four numbers do define what the part is. The thing to be aware of is that each time an improvement or change has been made to a part, the last one or two numbers may reflect this. The earlier number may still be available and may be required for the unit being repaired, and the parts list will indicate serial numbers where changes to a part apply.
Parts Look Up Options

- The mediaCAT® DVD data disc is available to the dealer on a paid subscription basis and updated several times a year

- STIHL publishes paper Illustrated Parts Lists (IPL) for all current models for dealers to purchase

- STIHL provides a logon to authorized dealers for access to www.stihleservice.com for complete, up to date, online parts and service information, as well as new unit sales product registration and warranty filing

- Visit www.stihlicademy.com for a large amount of training and service information; click on the Service Support tab on the left hand menu to access Technical Information

Of all the methods a dealer has to look up part numbers, the eService option will be the most up to date, with any changes to part numbers or new information uploaded as soon as it is available. However, there is no current way to interface eservice with business software or price information.

Using mediaCat® will have the information available on a disc so that parts information could be accessed in the event that the Web site or the internet connection were down. An electronic price list is available from your distributor that will interface with mediaCat®. A pick ticket of part numbers can be generated with pricing and customer information all printed on the same form.
mediaCAT® will only work on computers using the following MS Windows operating systems:

Windows 2000
Windows XP
Windows Vista
Windows 7

A DVD drive is required in order to use mediaCAT®. This is necessary because CD-ROM media does not have enough capacity to hold all of the data files needed for all the STIHL models that are included on mediaCAT®.

If there are any problems with the installation of the software or problems getting it to work properly, contact mediaCAT® directly at:

877-268-8431  us.support@evision-group.com
Serial Numbers

- The 1 at the beginning of the serial number indicates the unit was manufactured in Germany
- A 2 would indicate the unit was manufactured in the United States
- A 3 represents Brazil
- An 8 represents China
- SG 20 hand operated sprayers start with a 9

There may be a small “x” or a star stamped next to the serial number. These symbols indicate that the crankcase passed a vacuum/pressure test or some other inspection during the assembly process of the unit.
Sometimes when looking up parts for an older unit, such as this 028 chain saw, a serial number will be referenced. If the reference starts with an X this means to disregard the first number of the serial number where it is stamped on the unit.
mediaCAT® Lookup Example

- Open the Key to Symbols by clicking on the Show Legend icon
- Use this to interpret any symbols or letters referenced by the IPL

The top part of this is the **Key to symbols** that explains some of the symbols used in the IPL.

The bottom half is the **Versions available** that is helpful when trying to understand the letter designations used in some model numbers.

For example a MS 211 C-BE means that this particular model has a quick chain tensioner (C-B) as well as the ErgoStart, or Easy2Start™ feature (C-E).
mediaCAT® Lookup Example: Piston

- The Service Technician needs a new piston with rings for a FS 100 line trimmer.
- Open mediaCAT® and navigate to the Brushcutters folder, then scroll down and click on the FS 100 listing.
- Choose the category on the left that contains the part to be located, in this case it is: Cylinder, Engine pan.

In this example there is only one piston listed for the engine, reference number 7.
The quantity box indicates that 1 is required. Notice that if the piston ring was the only part being replaced, 2 would be required.
The diameter of the piston is 40 mm (Ø 40 mm).
- 8 – 10 indicates that part number 4180 030 2001 includes reference numbers 8 – 10, which is the rings, piston pin, and snap ring.
mediaCAT® Lookup Example: Cylinder

If a cylinder is what was needed, notice that there are two reference numbers for the cylinder:
- Reference number 1 is 4180 020 1205
- Reference number 2 is 4180 020 1200

When there are multiple reference numbers for a part, the part with an asterisk after it (*) will be for previous versions, as indicated in the Key to symbols.

The part listed first without the asterisk is for current models. In most cases there will be a reference to a Technical Bulletin in the Information column, and it may be a hyperlink that can be accessed by clicking on it. The bulletin will explain what changes were made and whether the parts are interchangeable or not.

Usually there will also be a serial number in the Up to column indicating that the previous part is used up to that serial number, and the current part would be used above that serial number.
mediaCAT® Lookup Example: Fan Housing

- Notice that there are two fan housings shown on this page, reference number 7 and 11.
- In the Description column each fan housing has several reference numbers in parenthesis.
- These refer to the different model variations for the 4180 series trimmer.

The 4180 series trimmer has been marketed with several different model number designations, and may have other options based on the country it was sold in. Not every version listed on mediaCAT® has been marketed in the United States.

For the technician to replace the fan housing correctly the model of the unit being repaired must be known. Look on the tube or the starter housing to see if the model number is evident.

For the 4180 series listed in this page there are seven versions listed:
- FS 100  bike handle
- FS 100 R  loop handle
- FS 100 RX  loop handle, lightweight version
- FS 110  bike handle
- FS 110 R  loop handle
- FS 110 X  bike handle, lightweight version
- FS 110 RX  loop handle, lightweight version

Look in the Product Information Guide or full line catalog and it is apparent that only three of these are sold here in the U. S.: the FS 100 RX, FS 110, and FS 110 R.
Model Number Identification

- New trimmers will have the model number on the tube and the starter

- Unfortunately, operators with multiple units sometimes swap starters or complete engines around from one machine to another

- This can complicate looking up parts

Another option is to use the STIHL eService Web site to look up the serial number that is on the actual engine that is being serviced. If the unit was registered at the time of sale, the original model number can be verified in this way.
mediaCAT® Lookup Example: Fan Housing

- Click the down arrow in the box at the top of the page and the model list will drop down
- The numbers 1-7 correspond to the number in parenthesis in the **Description** column
- Once the actual model has been determined click on the number and now only the correct part numbers for that model will show up at the bottom of the page

Once the actual model is known, such as a FS 100 RX, then click on the number for that model in the drop down box, which in this case would be number 7, and that will change the screen to only show those part numbers that are correct for the model that was selected.

This eliminates ordering or installing the wrong part number for the unit.
mediaCAT® Lookup Example: Fan Housing

- After selecting number 7 in the drop down box, the only part numbers that show up below the exploded view are the correct parts for a FS 100 RX.

Now it is obvious that 4180 080 1801, reference number 11, is the correct fan housing for this particular trimmer.

The difference between the two fan housings is that the RX versions use a polymer housing because it weighs less than the magnesium housing used on the versions not designated with an X in the model.

Also notice that part number 4180 080 1801 is an assembly that includes items 12 through 14.

Using this feature of mediaCAT® can be especially helpful when looking up parts where there are several versions available, such as drive shafts, or different diameters of pistons.
“Find” Feature

- Type in any STIHL part number into the **Find an item** search box and a list of all models that use that part will come up
- Select the model and click the **Go to** button to see the IPL for the model and where the part is used

Using the part number for the piston rings mentioned earlier, notice that they are actually used on several models besides the 028 chain saw they were originally introduced on.

This feature is of great value when a part number is known and the location as to where it may be used needs to be identified.
Anytime a page is accessed in mediaCAT® look to see if there are any notes regarding the page, or specific part numbers.

Notice the circle at the upper right. There is a flashing note icon there that indicates a note has been inserted regarding something in general on this page.

Also notice that there is a note beside reference number 7 near the bottom left of the picture. This indicates that there is a note regarding that specific part.

Click on the note and it will open in a new window.

If there is a note from the manufacturer, anytime the mediaCAT® software is opened it will search, via an internet connection, for any updates and will load them.

Anyone at the dealership can also enter notes that will be stored on the local hard drive, such as a special location for where the part is stored, or what special tools to use for an installation, or any other important information that needs to be readily available. Dealer notes are inserted by clicking the “Document note” icon on the middle left of the page.
When the blinking note icon is clicked a window opens containing the manufacturer note. In this case it explains what to do if the orange plug for the bar oil passageway falls out.

There is also a place at the bottom for the dealership to write in notes and save them for reference.

Simply type in the box and click save. Text can be imported into this box by clicking the import button and navigating to the file that contains the text that is to be inserted in the box, but be aware that the file must have a .txt file extension. The note can also be exported and saved as a Notepad document.

Click the “Close” button to return to the parts look up page.
When the note beside reference number 7 is clicked, the window opens and the manufacturer note explains that there is an oversized bar stud available in case the regular size stud has stripped out the threads in the plastic housing.
mediaCAT® Notes

There may also be manufacturer notes for special tools or other items not listed within a parts lookup page. If the “Item information” icon within the circle in the center of the page is clicked a note opens that gives ordering information for a rebuild kit and replacement gauge for the STIHL combination vacuum/pressure pump. These items are not available from STIHL but must be ordered directly from the supplier, and the contact information is available in the note.
One more thing about part numbers:

- A number on a part may not be the actual part number.

The part number molded or cast into a part may or may not be the actual replacement part number. Always use the current IPL to verify a part number before trying to order or replace it.

In the case of the flywheel above, 4137 400 1200 is the actual part number, but the number molded into the gas tank, 4137 351 0400, is not even a valid spare part number. To get this tank, part number 4137 350 0400 would be correct, which is an assembly that includes the hoses and grommets.

The STIHL logo is usually cast or molded on all parts to verify their authenticity.
It is common to save parts from damaged or worn out units for re-use or to sell. Knowing that the series number can be used to identify the model can be of great value when trying to identify used parts or even new parts to determine where a part can be used.

The two chain saws above have no model number identification, but the first four numbers of the part number on the bottom of the handle will indicate what series the chain saw is, and then the Series Number list will indicate what model it is. Remember that some parts may carry over to other series numbers but things like handle and tank assemblies and cylinder shrouds, and the cylinder if present, will usually be a good indicator of the series of the unit.

The chain saw on the left has a part number on the handle of 1125 350 0818 so it is a 1125 series, which means it would be a 034/036 model. In 2001, 1125 series 036 models became a MS 360. The 034 had a slightly smaller bore than the 036/MS 360.

The chain saw on the right has part number 1121 350 0829, so it is a 024/026 model saw.

Since both of these saws have the screw in filler caps they are most likely early models, such as a 034 or 036 and 024 or 026. Most of the saws changed to the toolless fuel caps at the time the model designation changed to MS.
Questions or Comments?

Do you have any questions or comments?