

GAT ${ }^{\text {P }}$ PERFORMANCE HAMMERS PARTS REFERENCE GUIDE
MODELS: H110 S, H110ES, H115 S, H115ES, H120 S, H120ES, H130 S, H130ES, H140 S, H140ES, H160 S, H160ES, H180 S, H180ES, H190 S, H215 S

LET'S DO THE WORK:

## PROTECT YOUR INVESTMENT WITH GENUINE CAT ${ }^{\oplus}$ PARTS

Thank you for selecting a Cat ${ }^{\circledR}$ Performance Hammer.
This guide is designed to provide you with a quick reference for the parts and part numbers you need to keep your Cat ${ }^{\oplus}$ performance hammer operating at peak efficiency. Always read and understand the machine's Operation and Maintenance Manual (OMM) prior to performing any type of maintenance.

## MAINTENANCE

Proactive preventative maintenance extends the life of your hammer and protects your investment. Only Caterpillar knows Cat hammer's lubrication requirements and recommended inspection/ replacement intervals to properly maintain your asset.

| SCHEDULED MAINTENANCE PARTS |  |
| :--- | :--- |
|  | HAMMER COMPONENTS |
|  | MREASES |
|  | MAINTENANCE INTERVAL SCHEDULE |

## REPLACEMENT PARTS

Proper maintenance minimizes the need for potential costly repair and replacement. In the event that replacement parts are required, the use of genuine Cat parts helps maximize performance and maintains high resale value. Competitive aftermarket parts may not meet certain original equipment specifications.

| WEAR COMPONENTS |  |
| :--- | :---: |
|  | HAMMER TOOLS AND RETAINING PINS |
|  | BUSHINGS, RETAINING PINS, THRUST RINGS |
| OTHER WEAR COMPONENTS | SEAL KITS AND MEMBRANES |
|  |  |
| BUFFERS AND WEAR PLATES |  |
| COMPATIBILITY | TIE ROD COMPONENTS |
|  |  |

## ANATOMY OF A CAT ${ }^{\circ}$ PERFORMANCE HAMMER

| Accumulato <br> Intern <br> Tool <br> Lower Bushing |  |
| :---: | :---: |
| PERFORMANCE HAMMERS |  |
| Component | Function |
| Upper Buffer | Located on top of the power cell. Works in concert with two side \& lower buffers so as to protect the excavator from reflective forces. |
| Housing | Enclosed external portion of unit. Protects the power cell. |
| Cylinder | One of three main components, internal to housing, piston cycles internally in the cylinder. |
| Tie-Rods | Four tie-rods connect the valve assembly, cylinder and front head, these components making up the power cell. |
| Thrust Ring | Provides alignment between the piston and the top of the tool. |
| Upper Tool Bushing | Together with the lower tool bushing, aligns the top of the tool with the bottom of the piston. |
| Lower Tool Bushing | Together with the upper tool bushing, aligns the top of the tool with the bottom of the piston. Rotatable for added life. |
| Lower Bushing Retaining Pin | Holds the lower bushing internally in the fron head. |
| Tool | Transfers energy wave into material being broken. |
| Tool Retaining Pins | Holds the tool internally in the front head. |
| Internal Wear Plates | Guides the power cell internal to housing. Rotatable for added life. |
| Front Head | One of three main components and internal to the housing. The upper and lower bushings, as well as the thrust ring are internal to the front head. |
| Piston | Cycles internally in the cylinder and strikes the top of tool to transfer the "energy wave" through the tool. |
| Valve Assembly | One of three main components, located on top of the cylinder. |
| Accumulator | Located on top portion of the power cell, it assists the piston in transferring power to the tool - in addition to absorbing hydraulic spikes. |

PREVENTIVE MAINTENANCE - LUBRICATING GREASE

|  |  | Every 2 hours of operation | Verify Reservoir grease level <br> prior to operation | Verify Cartridge <br> grease level <br> prior to operation |
| :---: | :---: | :---: | :---: | :---: |
| All Performance <br> Hammer Models | All Serial <br> Number <br> Prefixes | Manual Greasing <br> 400g (14 oz) Cartridge | Carrier Mounted <br> $5 \mathbf{5 k g}(11$ lb) Container | System Mounted - <br> Autolube <br> Case of (12) 400g <br> (14 oz) Cartridges |
|  |  | $130-6951$ | $133-8807$ | $317-8492$ |
|  |  |  |  |  |

## MAINTENANCE INTERVAL SCHEDULE

| All Gat ${ }^{\oplus}$ Performance Hammer Models and Serial Number Prefixes |  |  |
| :---: | :---: | :---: |
| Interval | Component | Action Required |
| When Required | Tool (Tool Bit) | Inspect the Tool for wear. |
|  |  | Inspect the notch area for burrs. Remove any burrs. |
|  |  | Inspect the tool for cracks. If the tool is cracked, replace. |
|  | Tool Retaining Pins | Inspect the pin for wear and if worn on one side, rotate 180 degrees and reuse. |
|  |  | Inspect the pin for cracks. If the pin is cracked or excessively worn, replace. |
|  | Tool (Lower) Bushing | Inspect the tool contact area and seals for wear and compare with Maximum Clearance Dimensions, in the Operations and Maintenance Manual. |
|  |  | One 90 degree rotation of the bushing or replacement of bushing are the only options. |
| Every 2 Service Hours, or 4 Times Daily | Lubricate Work Tool | Manual Greasing - Grease points have been marked with a grease decal. Apply 10 to 15 strokes from the grease gun to the tool bushings and hammer tool. |
|  |  | Hammer Mounted Auto-Lube System - Verify grease cartridge level prior to operation. |
|  |  | Carrier Mounted Auto-Lube System - Verify grease reservoir level prior to operation. |
| Initial 50 Hours | Mounting Bracket Bolts | Tighten the bolts for the mounting bracket to the required torque value. Refer to OMM Instructions |
| Every 50 Service Hours, or Weekly | Hydraulic Fittings | Check supply lines and return lines for damage, or leaks. |
|  |  | Check hydraulic fittings for damage, or leaks. |
|  |  | Check connector hoses for damage, or wear. |
|  |  | Check all connector hose clamps on both the boom and the stick. |
|  | Tool | Inspect the tool for wear. |
|  |  | Inspect the notch area for burrs. Remove any burrs. |
|  |  | Inspect the tool for cracks. If the tool is cracked, replace. |
|  | Tool Retaining Pins | Inspect the pin for wear and if worn on one side, rotate 180 degrees and reuse. |
|  |  | Inspect the pin for cracks. If the Pin is cracked or excessively worn, replace. |
|  | Tool (Lower) Bushing | Inspect the tool contact area and seals for wear and compare with Maximum Clearance Dimensions, in the OMM. |
|  |  | One 90 degree rotation of the bushing or replacement of bushing are the only options. |
| Every 1000 Service Hours, or 1 Year whichever comes first | Seals and Membrane | The hammer MUST BE RESEALED and the membrane for the hydraulic accumulator MUST BE REPLACED on an ANNUAL SCHEDULE, 1000 hours - whichever comes first. |
|  | All Wear Components | Inspect all of the wear parts |
|  |  | Replace all of the damaged parts, or the parts that are worn. |
|  |  | Refer to the Service Manual, "Specifications, Disassembly and Assembly, and the Systems Operation, Testing and Adjusting Sections for information on the hammer. |

## ESTIMATED WEAR LIFE

The chart below details the estimated life of your hammer components under normal operating conditions. It is not meant to replace daily maintenance requirements and inspections outlined in your OMM. The hours noted are only an estimation and may need to be replaced prior to the listed hours

| Description | Estimated Life of Components <br> (Hours) | Recommended Actions |  |
| :--- | :---: | :---: | :---: |
| Tool (Tool Bit) | $2500^{* * *}$ | - |  |
| Wear Components |  |  |  |
| Lower Bushing | 500 | Inspect, Rotate or Replace if needed |  |
| Tool Retainers | 1000 | Inspect** |  |
| Seal Set* | 1000 or 1 Year | Annual Reseal* |  |
| Membrane * | 1000 | Replace with Reseal ${ }^{*}$ |  |
| Upper Bushing | 1000 | Inspect** |  |
| Thrust Ring | 2000 | Inspect** |  |
| Side Buffer | 2000 | Inspect** |  |
| Top Buffer | 2000 | Inspect** |  |
| Bottom Buffer | 2000 | Inspect** |  |
| Wear Plate | 3000 | Inspect** |  |
| Tie Rod | 3000 | Inspect** |  |
| Tie Rod Nut | 3000 | - |  |
| Maintenance Components |  |  |  |
| Cylinder |  |  |  |
| Piston |  |  |  |
| Front Head |  |  |  |

In addition to daily maintenance requirements.

* Seal Set and Membrane - Every 1000 Hours or 1 Year - whichever comes first.
${ }^{* * *}$ Recommendation to Inspect all Wear Components during Annual Reseal.
*** Tool Bit Wear Life can be impacted by the abrasiveness of the materials and application
Refer to the Operations and Maintenance Manual for proper Inspection and Assembly/Disassembly as well as Wear Component Tolerances

HAMMER TOOLS

| Hammer Model | Serial Number Prefix | Retaining Pin | Standard Tools |  |  |  | Wear Flex Tools* |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Chisel | Hard Rock Chisel | Moil | Blunt | Chisel | Long Chisel | Moil | Long Moil | Blunt | Super Blunt | Pyramidal |
| H110 S | HWF | 355-3935 | 355-5882 | - | 355-5884 | 355-5887 | 468-8031 | 373-4914 | 468-8013 | 373-4916 | 468-8005 | - | - |
| H110ES | HHB | 355-3935 | 355-5882 | - | 355-5884 | 355-5887 | 468-8031 | 373-4914 | 468-8013 | 373-4916 | 468-8005 | - | - |
| H115S | HWL | 355-3876 | 355-5878 | - | 355-5879 | 355-5880 | 468-8032 | 373-4917 | 468-8014 | 373-4918 | 468-8006 | - | - |
| H115ES | HHD | 355-3876 | 355-5878 | - | 355-5879 | 355-5880 | 468-8032 | 373-4917 | 468-8014 | 373-4918 | 468-8006 | - | - |
| H120 S | HWT | 355-3876 | 355-5865 | - | 355-5866 | 355-5867 | 468-8033 | 373-4919 | 468-8017 | 373-4920 | 468-8007 | - | - |
| H120ES | HHE | 355-3876 | 355-5865 | - | 355-5866 | 355-5867 | 468-8033 | 373-4919 | 468-8017 | 373-4920 | 468-8007 | - | - |
| H130 S | HWW | 355-3897 | 355-5868 | 373-5877 | 355-5876 | 355-5877 | 468-8034 | 373-4921 | 468-8021 | 373-4922 | 468-8008 | - | - |
| H130ES | HHF | 355-3897 | 355-5868 | 373-5877 | 355-5876 | 355-5877 | 468-8034 | 373-4921 | 468-8021 | 373-4922 | 468-8008 | - | - |
| H140 S | Hwx | 363-3746 | 374-3620 | 423-1654 | 374-3621 | 374-3622 | 468-8035 | 423-1659 | 468-8023 | 423-1660 | 468-8010 | 423-1662 | - |
| H140ES | W9A | 363-0746 | 374-3620 | 423-1654 | 374-3621 | 374-3622 | 468-8035 | 423-1659 | 468-8023 | 423-1660 | 468-8010 | 423-1662 | - |
| H160 S | HWY | 363-0746 | 374-3623 | 423-1663 | 374-3624 | 374-3625 | 468-8036 | 423-1664 | 468-8029 | 423-1665 | 468-8011 | 423-1667 | - |
| H160ES | W9B | 363-0746 | 374-3623 | 423-1663 | 374-3624 | 374-3625 | 468-8036 | 423-1664 | 468-8029 | 423-1665 | 468-8011 | 423-1667 | - |
| H180 S | HWZ | 366-5133 | 374-3626 | 423-1668 | 374-3627 | 374-3629 | 468-8038 | - | 468-8030 | - | 468-8012 | 423-1669 | - |
| H180ES | W9C | 366-5133 | 374-3626 | 423-1668 | 374-3627 | 374-3629 | 468-8038 | - | 468-8030 | - | 468-8012 | 423-1669 | - |
| H190 S | HS7 | 570-6081 | 570-6097 | 570-6099 | 570-6096 | 570-6095 | 570-6100 | - | - | - | - | 570-6101 | 570-6098 |
| H215 S | HS8 | 570-6213 | 570-6220 | 570-6224 | 570-6221 | 570-6222 | 570-6225 | - | - | - | - | 609-9020 | 570-6223 |

 techniques are always required, the different metallurgic content of the tools can make allowance for a lesser experienced operator than the standard tool offering.

| Profile Selection |  |  |
| :---: | :---: | :---: |
|  | Chisel | Best used in primary breaking applications such as trenching or benching that require shaping profiles into the material. |
|  | Hard Rock Chisel | Tool has a longer, narrower profile cross section so forces can be transferred into smaller area, creating more breaking force. |
|  | Moil | Single point profile used primarily in concrete demolition, or where shaping a profile is not needed. |
|  | Blunt | Primary tool to use in secondary breaking applications such as oversize reduction in quarries. |
|  | Super Blunt | Similar to the regular blunttool but with a larger cross section for better wear life. |



## LOWER AND UPPER BUSHINGS

| Hammer Model | Serial Number Prefix | Lower Bushing |  |  |  | Lower Bushing Pin Assembly |  | Upper Bushing |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Lower Bushing | Lower Bushing Upper Seal | Lower Bushing Lower Seal | Lower Bushing 0-ring | Retaining Pin | Pin Seal/Ring | Upper Bushing | Thrust Ring |
| H110 S | HWF | 355-3930 | 356-2324 | 356-2481 | 129-1610 | 466-1698 | 355-3874 | 355-3936 | - |
| H110ES | ннв | 355-3930 | 356-2324 | 356-2481 | 129-1610 | 466-1698 | 355-3874 | 355-3936 | - |
| H115 S | HWL | 355-3911 | 356-2321 | 356-2480 | 6V-3319 | 466-1698 | 355-3874 | 355-3918 | 355-3923 |
| H115ES | HHD | 355-3911 | 356-2321 | 356-2480 | 6V-3319 | 466-1698 | 355-3874 | 355-3918 | 355-3923 |
| H120 S | HWT | 355-3766 | 356-2320 | 356-2479 | 5P-8428 | 466-1709 | 355-3874 | 355-3877 | 355-3878 |
| H120ES | HHE | 355-3766 | 356-2320 | 356-2479 | 5P-8428 | 466-1709 | 355-3874 | 355-3877 | 355-3878 |
| H130 S | HWW | 355-3892 | 356-2319 | 356-2478 | 5K-1787 | 466-1709 | 355-3874 | 355-3898 | 355-3899 |
| H130ES | HHF | 355-3892 | 356-2319 | 356-2478 | 5 K -1787 | 466-1709 | 355-3874 | 355-3898 | 355-3899 |
| H140 S | Hwx | 363-0744 | 376-6586 | 376-6582 | 356-3288 | 466-1710 | 375-4771 | 363-0747 | 363-3748 |
| H140ES | w9A | 363-0744 | 376-6586 | 376-6582 | 356-3288 | 466-1710 | 375-4771 | 363-0747 | 363-3748 |
| H160 S | HwY | 366-5126 | 376-6587 | 376-6584 | 356-3290 | 466-1710 | 375-4771 | 366-5134 | 366-5135 |
| H160ES | W9B | 366-5126 | 376-6587 | 376-6584 | 356-3290 | 466-1710 | 375-4771 | 366-5134 | 366-5135 |
| H180 S | HWZ | 366-5174 | 376-6585 | 376-6588 | 5P-2235 | 466-1711 | 375-4771 | 366-5178 | 366-5179 |
| H180ES | W9C | 366-5174 | 376-6585 | 376-6588 | 5P-2235 | 466-1711 | 375-4771 | 366-5178 | 366-5179 |
| H190 S | HS7 | 609-1784 | - | 602-8153 | - | 570-6085 | 570-6086 | 570-6080 | 570-6078 |
| H215 S | HS8 | 570-6219 | - | 571-6124 | - | 570-6217 | 570-6218 | 570-6212 | 570-6211 |

## SEAL KITS (Reseal Annually)

| Hammer Model | Serial Number Prefix | Seal Kit | Membrane |
| :---: | :---: | :--- | :--- |
| H110 S | HWF | $356-0830$ | $355-3801$ |
| H110ES | HHB | $356-0830$ | $355-3801$ |
| H115 S | HWL | $356-0829$ | $355-3801$ |
| H115ES | HHD | $356-0829$ | $355-3801$ |
| H120 S | HWT | $356-0827$ | $355-3776$ |
| H120ES | HHE | $356-0827$ | $355-3776$ |
| H130 S | HWW | $356-0826$ | $355-3776$ |
| H130ES | HHF | $356-0826$ | $355-3776$ |
| H140 S | HWX | $386-1143$ | $363-0780$ |
| H140ES | W9A | $386-1143$ | $363-0780$ |
| H160 S | HWY | $386-1144$ | $366-5166$ |
| H160ES | W9B | $386-1144$ | $366-5166$ |
| H180 S | HWZ | $386-1145$ | $366-5166$ |
| H180ES | W9C | $386-1145$ | $366-5166$ |
| H190 S | HS7 | $570-6107$ | $570-5994$ |
| H215 S | HS8 | $570-6230$ | $570-6130$ |

## BUFFER AND WEAR PLATES

| Hammer Model | Serial Number <br> Prefix | Side Buffer | Top Buffer | Bottom Buffer | Wear Plates <br> Quantity of 4 Required |
| :--- | :---: | :---: | :---: | :---: | :---: |
| H110 S | HWF | $355-5802$ | $478-4117$ | $591-7842$ | $355-5855$ |
| H110ES | HHB | $355-5802$ | $478-4117$ | $357-5369$ | $355-5855$ |
| H115 S | HWL | $355-5802$ | $478-4117$ | $591-7843$ | $355-5838$ |
| H115ES | HHD | $355-5802$ | $478-4117$ | $355-5843$ | $355-5838$ |
| H120 S | HWT | $355-5802$ | $456-6255$ | $591-7844$ | $355-5786$ |
| H120ES | HHE | $355-5802$ | $456-6255$ | $355-5789$ | $355-5786$ |
| H130 S | HWW | $355-5802$ | $456-6255$ | $591-7845$ | $355-5824$ |
| H130ES | HHF | $355-5802$ | $456-6255$ | $355-5825$ | $355-5824$ |
| H140 S | HWX | $355-5802$ | $459-4846$ | $591-7846$ | $369-9028$ |
| H140ES | W9A | $355-5802$ | $459-4846$ | $369-9039$ | $369-9028$ |
| H160 S | HWY | $371-7123$ | $454-0309$ | $591-7847$ | $371-7120$ |
| H160ES | W9B | $371-7123$ | $454-0309$ | $371-7121$ | $371-7120$ |
| H180 S | HWZ | $371-7123$ | $454-0309$ | $591-7848$ | $376-1688$ |
| H180ES | W9C | $371-7123$ | $454-0309$ | $376-1684$ | $376-1688$ |
| H190 S | HS7 | $570-5971$ | $570-5972$ |  | - |
| H215 S | HS8 | $570-6112$ | $570-6113$ |  | $570-5984$ (0uantity 2) |
| $570-5986$ (Quantity 2) |  |  |  |  |  |

## TIE RODS

| Hammer Model | Serial Number Prefix | Tie Rod GROUP* <br> (Quantity of 4 Required) |
| :---: | :---: | :---: |
| H110 S | HWF | $355-3797$ |
| H110ES | HHB | $355-3797$ |
| H115 S | HWL | $355-3796$ |
| H115ES | HHD | $355-3796$ |
| H120 S | HWT | $355-3794$ |
| H120ES | HHE | $355-3794$ |
| H130 S | HWW | $355-3795$ |
| H130ES | HHF | $355-3795$ |
| H140 S | HWX | $363-0772$ |
| H140ES | W9A | $363-0772$ |
| H160 S | HWY | $366-5157$ |
| H160ES | W9B | $366-5157$ |
| H180 S | HWZ | $366-5192$ |
| H180ES | W9C | $366-5192$ |
| H190 S | HS7 | $570-6088$ |
| H215 S | HS8 | $570-6169$ |

* Tie Rod Group includes a Tie Rod, an O-Ring Seal and a Tie Rod Nut.


## MATCHING GUIDE

| Hammer Model | 311 | 312 | 313 | 314 | 315 | 316 | 318 | 320 | 323 | 325 | 326 | 329-330 | 335 | 336-340 | 349 | 352 | 365-374 | 385-395 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| H110 S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H110ES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H115 S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H115ES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H120 S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H120ES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H130 S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H130ES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H140 S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H140ES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H160 S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H160ES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H180 S |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H180ES |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H190 S* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| H215 S* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

* Hammer available in 2nd Quarter 2022

Note 1: Caterpillar recommends the use of a suitable shield/guard system to ensure operator has adequate protection from flying debris
Note 2: These matches are for general reference purposes for Cat machines only. When special boom and quick coupler arrangements are used, these matches may not apply. Note 3: When matching hammers to competitive carriers, selection should be made by carrier weight. Refer to the carrier range at the top of the table in order to determine the correct match.


To buy Cat parts online, visit Parts.cat.com.

