



CAT® 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® PARTS

Thank you for selecting a Cat® 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® 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.

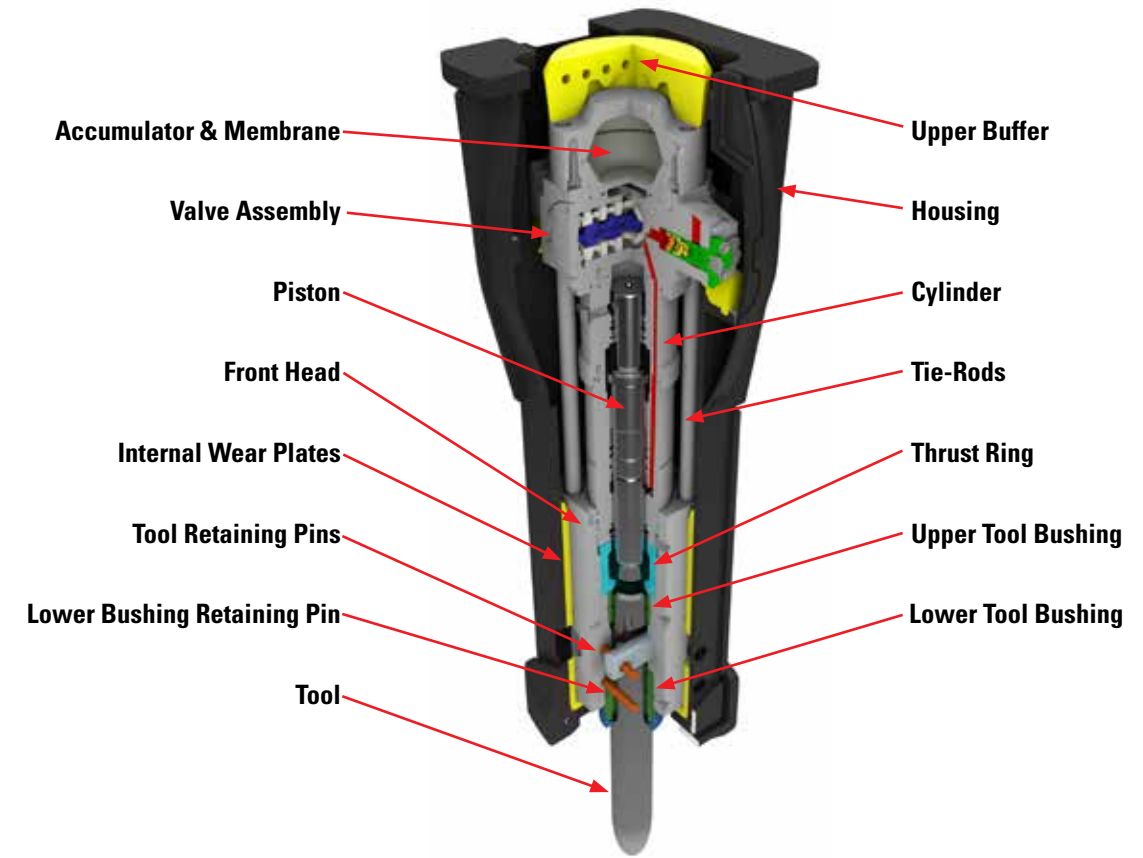
SCHEDULED MAINTENANCE PARTS	
	HAMMER COMPONENTS
	GREASES
	MAINTENANCE INTERVAL SCHEDULE
	ESTIMATED WEAR LIFE

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
SEAL KITS AND MEMBRANES
OTHER WEAR COMPONENTS
BUFFERS AND WEAR PLATES
TIE ROD COMPONENTS
COMPATIBILITY
HAMMER TO MACHING MATCHING GUIDE

ANATOMY OF A CAT® PERFORMANCE HAMMER



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 front 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

All Performance Hammer Models	All Serial Number Prefixes	Every 2 hours of operation	Verify Reservoir grease level prior to operation	Verify Cartridge grease level prior to operation
		Manual Greasing 400g (14 oz) Cartridge	Carrier Mounted 5kg (11 lb) Container	System Mounted - Autolube Case of (12) 400g (14 oz) Cartridges
		130-6951	133-8807	317-8492

MAINTENANCE INTERVAL SCHEDULE

All Cat® 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 (Hours)	Recommended Actions
Tool (Tool Bit)	250 ***	—
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	Inspect**
Maintenance Components		
Cylinder	5000	—
Piston	4000	—
Front Head	6000	—

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	-	-
H115 S	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

* WearFlex tools are manufactured with a different metallurgic content that may increase performance in certain applications such as secondary boulder breaking in quarries where the material is of softer limestone and lighter trenching applications in gypsum rock. While correct operating 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 blunt tool 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 O-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	HHB	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	5K-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 Prefix	Side Buffer	Top Buffer	Bottom Buffer	Wear Plates 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	-	570-5984 (Quantity 2) 570-5986 (Quantity 2)
H215 S	HS8	570-6112	570-6113	-	570-6118 (Quantity 2) 570-6119 (Quantity 2)



Top Buffer

Side Buffers

Lower Buffer



Internal Wear Plates

TIE RODS

Hammer Model	Serial Number Prefix	Tie Rod GROUP* (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.



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