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

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 lubrication requirements and recommended inspection/replacement intervals to properly maintain your asset.

SCHEDULED MAINTENANCE PARTS

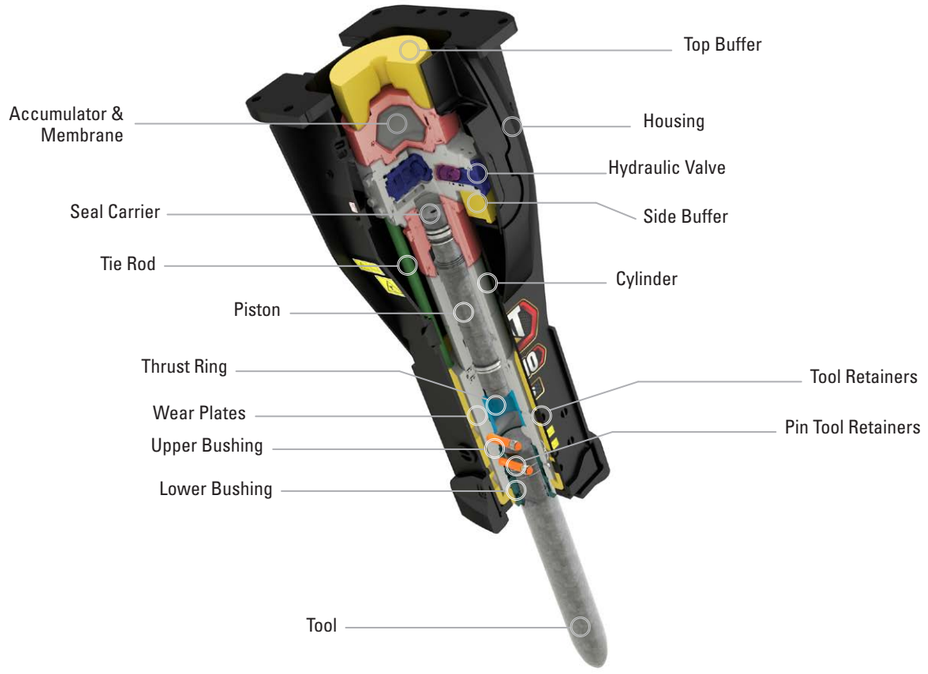
Hammer Components
Greases
Maintenance Interval Schedule
Estimated Wear Life

REPLACEMENT PARTS

Proper maintenance helps reduce 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 maintain 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

ANATOMY OF A CAT PERFORMANCE HAMMER



PERFORMANCE HAMMERS	
COMPONENT	**FUNCTION**
Top Buffer	Located on top of the power cell. Works in concert with two side and lower buffers to protect the excavator from reflective forces.
Housing	Enclosed external portion of unit. Protects the power cell.
Cylinder	One of the three main components and internal to the housing. Piston cycles internally in the cylinder.
Tie-Rods	Four tie-rods connect the valve assembly, cylinder and front head. These components make 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.
Hydraulic Valve	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 OMM.
		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 or after 1,000 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.
		For information on the hammer, refer to the following sections in the Service Manual: "Specifications," "Disassembly and Assembly," and "Systems Operations, Testing and Adjusting."

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 components may need to be replaced prior to the listed hours.

DESCRIPTION	ESTIMATED LIFE OF COMPONENTS (HRS)	RECOMMENDED ACTIONS
Tool (Tool Bit)	250 ***	–
WEAR COMPONENTS		
Lower Bushing	500	Inspect, Rotate or Replace if Needed
Tool Retainers	1000	Inspect**
Seal Set *	1,000 or 1 Year	Annual Reseal *
Membrane *	1,000	Replace with Reseal *
Upper Bushing	1,000	Inspect**
Thrust Ring	2,000	Inspect**
Side Buffer	2,000	Inspect**
Top Buffer	2,000	Inspect**
Bottom Buffer	2,000	Inspect**
Wear Plate	3,000	Inspect**
Tie Rod	3,000	Inspect**
Tie Rod Nut	3,000	Inspect**
MAINTENANCE COMPONENTS		
Cylinder	5,000	–
Piston	4,000	–
Front Head	6,000	–

In addition to daily maintenance requirements.

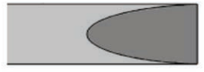
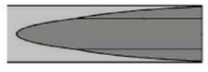
* Seal Set and Membrane - Every 1000 Hours or 1 Year – whichever comes first.
** Recommendation to inspect all wear components during annual reseal.
*** Tool Bit wear life can be impacted by the abrasiveness of the materials and application

Refer to the OMM for proper inspection and assembly/disassembly as well as wear component tolerances

HAMMER TOOLS

HAMMER MODEL	SERIAL NUMBER PREFIX	RETAINING PIN	STANDARD TOOLS				WEARFLEX 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	373-4923	355-5876	355-5877	468-8034	373-4921	468-8021	373-4922	468-8008	–	–
H130ES	**HHF**	**355-3897**	355-5868	373-4923	355-5876	355-5877	468-8034	373-4921	468-8021	373-4922	468-8008	–	–
H140 S	**HWX**	**363-0746**	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	–	–	–	–	–	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 allow 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	363-0748
H140ES	W9A	363-0744	376-6586	376-6582	356-3288	466-1710	375-4771	363-0747	363-0748
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	–	570-6124	–	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 Four Required)
H110 S	HWF	355-5802	478-4117	591-7842	355-5855
H110ES	HHB	355-5802	478-4117	591-7842	355-5855
H115 S	HWL	355-5802	478-4117	591-7843	355-5838
H115ES	HHD	355-5802	478-4117	591-7843	355-5838
H120 S	HWT	355-5802	456-6255	591-7844	355-5786
H120ES	HHE	355-5802	456-6255	591-7844	355-5786
H130 S	HWW	355-5802	456-6255	591-7845	355-5824
H130ES	HHF	355-5802	456-6255	591-7845	355-5824
H140 S	HWX	355-5802	459-4846	591-7846	369-9028
H140ES	W9A	355-5802	459-4846	591-7846	369-9028
H160 S	HWY	371-7123	454-0309	591-7847	371-7120
H160ES	W9B	371-7123	454-0309	591-7847	371-7120
H180 S	HWZ	371-7123	454-0309	591-7848	376-1688
H180ES	W9C	371-7123	454-0309	591-7848	376-1688
H190 S	HS7	570-5971	570-5972	–	570-5984 (Quantity 2) 570-5985 (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.

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