



CAT® GC SILENCED HAMMERS PARTS REFERENCE GUIDE

MODELS: H110GC S, H115GC S, H120GC S, H130GC S, H140GC S, H160GC S,
H180GC S

LET'S DO THE WORK.™




PROTECT YOUR INVESTMENT WITH GENUINE CAT® PARTS

Thank you for selecting a Cat® GC Silenced Hammer.

This guide is designed to provide you with a quick reference for the parts and part numbers you need to keep your Cat® GC Silenced 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.

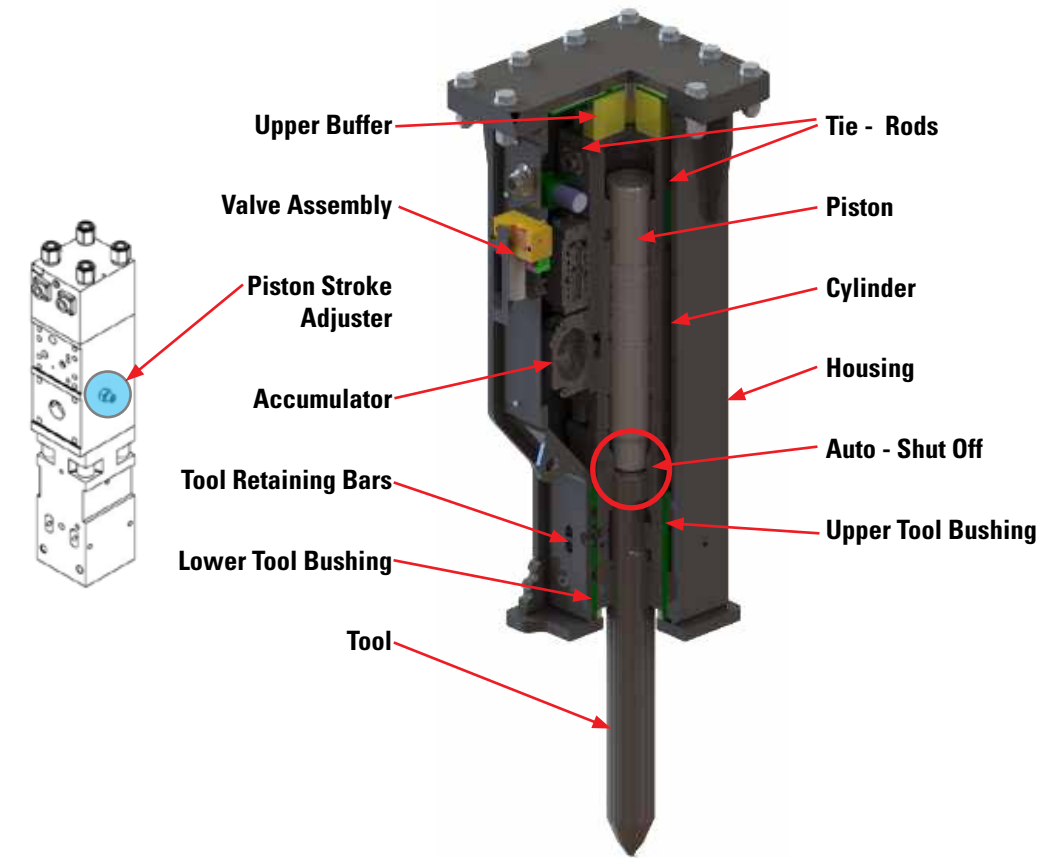
PREVENTATIVE MAINTENANCE	
	HAMMER COMPONENTS
	GREASES AND CHARGING KIT
	MAINTENANCE INTERVAL SCHEDULE
	ESTIMATED WEAR LIFE

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
YEARLY RESEAL
SEAL KITS
DIAPHRAGMS
OTHER WEAR COMPONENTS
BUFFERS AND WEAR PLATES
TIE RODS
COMPATIBILITY
HAMMER TO MACHINE MATCHING GUIDE

ANATOMY OF A CAT® GC SILENCED HAMMER



GC SILENCED HAMMERS	
Component	Function
Auto Shut Off Feature	Eliminates blank firing of the piston when there is no material under the tool to be broken. Protects the hammer.
Upper Buffer	Located on top of the powercell. Protects the excavator from reflective forces.
Cylinder	One of the three main components that makes up the powercell. Piston cycles internally.
Piston Stroke Adjuster	Manual adjustment controls piston speed providing two power levels, for different applications.
Single Manual Grease Point	Standing height. Provides grease to upper and lower tool bushings.
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. Slip fit.
Housing	Enclosed external portion of the hammer. Protects the powercell.
Tool	Transfers energy wave into material being broken.
Tool Retaining Bars	Holds tool internally in front head.
Front Head	One of three main components, internal to housing. Thrust ring, upper and lower bushings are internal to front head.
Piston	Cycles internally in cylinder, strikes the top of the tool and transfers "energy wave" through the tool.
Top Head	One of three main components, located on top of the cylinder. Contains the nitrogen charge used to power the piston.
Accumulator	Located mid-section on the back of the powercell, absorbs hydraulic spikes and protects the excavator's hydraulic pumps.

PREVENTIVE MAINTENANCE - LUBRICATING GREASE

All GC Silenced 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 - GAS CHARGING KIT

All GC Silenced Hammer Models	All Serial Number Prefixes
	369-3566

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 ***	Inspect and Replace as required
Wear Components		
Lower Bushing	300	Inspect and Replace if needed
Tool Retainers	600	Inspect**
Seal Set *	600 or 1 Year	Annual Reseal *
Diaphragm*	600	Replace with Reseal *
Upper Bushing	600	Inspect**
Side Buffer	1200	Inspect**
Top Buffer	1200	Inspect**
Bottom Buffer	1200	Inspect**
Wear Plate	1200	Inspect**
Tie Rod	2400	Inspect**
Tie Rod Nut	2400	Inspect**
Maintenance Components		
Cylinder	3600	—
Piston	3000	—
Front Head	4200	—

In addition to daily maintenance requirements.

* Seal Set and Diaphragm - Every 600 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.

MAINTENANCE INTERVAL SCHEDULE

All Cat® GC S 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 beyond wear limit dimensions, replace.
		Inspect the pin for cracks. If the pin is cracked, 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.
Replace the tool bushing if the tool bushing has too much wear.		
Replace the seals if the seals are worn or damaged.		
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 beyond wear limit dimensions, replace.
		Inspect the pin for cracks. If the pin is cracked, 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.
Replace the tool bushing if the tool bushing has too much wear.		
Replace the seals if the seals are worn or damaged.		
Accumulator	Accumulator charge must be verified every 50 hours	
	Follow charging instructions and pressures, as detailed in the Operations and Maintenance Manual.	
Every 600 Service Hours, or 1 Year - whichever comes first	Seals and Diaphragm	The hammer MUST BE RESEALED and the diaphragm for the hydraulic accumulator MUST BE REPLACED on an ANNUAL SCHEDULE, 600 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.

HAMMER TOOLS

Hammer Model	Serial Number Prefix	Retaining Pin (2 Required)	Chisel	Forged Tip Chisel	Moil	Blunt	Pyramidal
H110GC S	KSE	420-7369	565-4615	565-4616	565-4612	565-4613	565-4614
H110GC S	K8B	420-7369	565-4615	565-4616	565-4612	565-4613	565-4614
H115GC S	HHW	417-8042	566-1536	569-4710	566-1535	566-1533	566-1534
H115GC S	K8M	417-8042	566-1536	569-4710	566-1535	566-1533	566-1534
H120GC S	HHX	541-6210	565-8761	569-4711	565-8760	565-8758	565-8759
H120GC S	K8G	541-6210	565-8761	569-4711	565-8760	565-8758	565-8759
H130GC S	WHT	541-6219	565-8767	569-4712	565-8766	565-8762	565-8764
H130GC S	K8J	541-6219	565-8767	569-4712	565-8766	565-8762	565-8764
H140GC S	WHC	374-7025	566-1540	569-4713	566-1539	566-1537	566-1538
H140GC S	K8L	374-7025	566-1540	569-4713	566-1539	566-1537	566-1538
H160GC S	KS7	374-7025	595-1652	595-1651	595-1654	595-1655	595-1653
H180GC S	KS9	594-5021	595-1659	595-1656	595-1657	595-1660	595-1658

Profile Selection		
	(A) Chisel Tool	Best used in primary breaking applications such as breaking concrete or bedrock, trenching or operating on slopes.
	(B) Pyramidal Tool	Multi-use applications, such as breaking hard rock, concrete, bedrock and trenching.
	(C) Blunt Tool	Best used in primary breaking applications such as breaking concrete or bedrock, trenching or operating on slopes.
	(D) Moil Tool	Multi-use applications, such as breaking hard rock, concrete or bedrock.



LOWER AND UPPER BUSHINGS

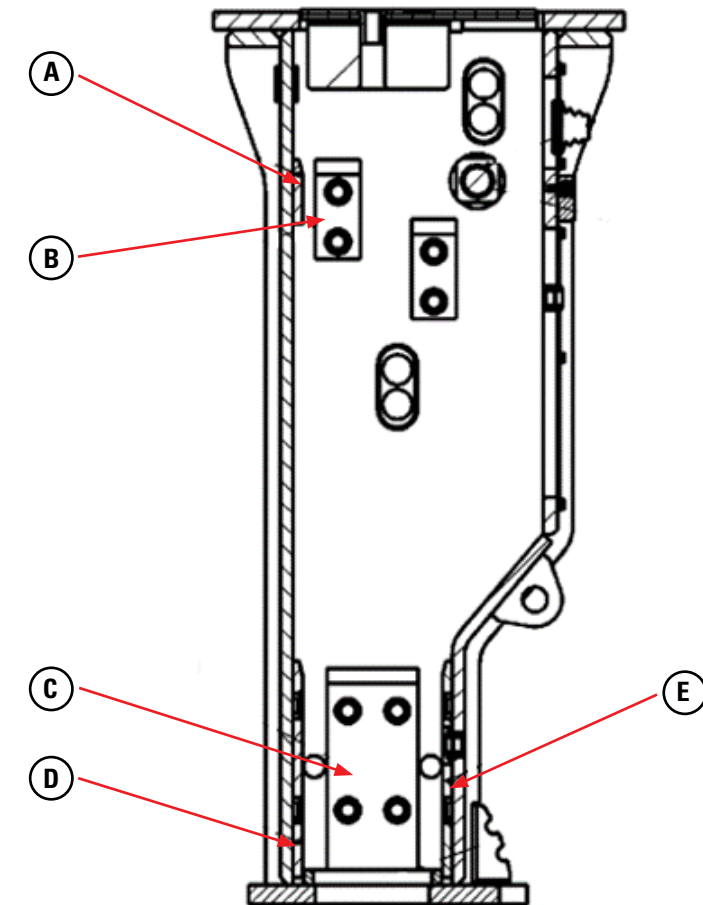
Hammer Model	Serial Number Prefix	Lower Bushing	Lower Bushing Pin Assembly			Upper Bushing	
		Lower Bushing	Retaining Pin	Ring	Upper Bushing	Thrust Ring	
H110GC S	KSE	565-3719	420-7370	369-3563	565-3723	Not Applicable	
H110GC S	K8B	565-3719	420-7370	369-3563	565-3723	Not Applicable	
H115GC S	HHW	541-6173	417-8044	095-0934	541-6172	417-8040	
H115GC S	K8M	541-6173	417-8044	095-0934	541-6172	417-8040	
H120GC S	HHX	541-6211	367-0893	096-0194	541-6212	Not Applicable	
H120GC S	K8G	541-6211	367-0893	096-0194	541-6212	Not Applicable	
H130GC S	WHT	541-6225	367-0893	096-0194	541-6220	Not Applicable	
H130GC S	K8J	541-6225	367-0893	096-0194	541-6220	Not Applicable	
H140GC S	WHC	541-6234	374-7028	096-0194	541-6233	Not Applicable	
H140GC S	K8L	541-6234	374-7028	096-0194	541-6233	Not Applicable	
H160GC S	KS7	580-4396	374-7028	096-0194	580-4394	Not Applicable	
H180GC S	KS9	594-5011	594-5023	096-0194	594-5025	Not Applicable	

SEAL KITS (Annual Reseal)

Hammer Model	Serial Number Prefix	Seal Kit	Diaphragm
H110GC S	KSE	591-0627	417-8061
H110GC S	K8B	591-0627	417-8061
H115GC S	HHW	591-0628	417-8061
H115GC S	K8M	591-0628	417-8061
H120GC S	HHX	541-6217	368-9984
H120GC S	K8G	541-6217	368-9984
H130GC S	WHT	541-6227	374-7188
H130GC S	K8J	541-6227	374-7188
H140GC S	WHC	541-6238	374-7188
H140GC S	K8L	541-6238	374-7188
H160GC S	KS7	580-4365	580-4398
H180GC S	KS9	580-6116	594-5065

BUFFER AND WEAR PLATES

Hammer Model	Serial Number Prefix	Top Buffer	Bottom Buffer	Wear Plate (A)	Wear Plate (B)	Wear Plates (C)	Wear Plate (D)	Wear Plate (E)
H110GC S	KSE	565-3747	565-3748	565-3744	541-8995 (Quantity 2)	565-3743 (Quantity 2)	565-3742	565-3741
H110GC S	K8B	565-3747	565-3748	565-3744	541-8995 (Quantity 2)	565-3743 (Quantity 2)	565-3742	565-3741
H115GC S	HHW	527-3226	566-1523	527-3219	527-3223 (Quantity 2)	527-3222 (Quantity 2)	541-6180	527-3220
H115GC S	K8M	527-3226	566-1523	527-3219	527-3223 (Quantity 2)	527-3222 (Quantity 2)	541-6180	527-3220
H120GC S	HHX	527-3226	610-7025	527-3219	541-8995 (Quantity 4)	541-8984 (Quantity 2)	541-8982	541-8983
H120GC S	K8G	527-3226	610-7025	527-3219	541-8995 (Quantity 4)	541-8984 (Quantity 2)	541-8982	541-8983
H130GC S	WHT	541-9003	541-9004	527-3219	541-8995 (Quantity 3)	541-9002 (Quantity 2)	541-9006	541-9005
H130GC S	K8J	541-9003	541-9004	527-3219	541-8995 (Quantity 3)	541-9002 (Quantity 2)	541-9006	541-9005
H140GC S	WHC	541-9003	541-9023	527-3219	527-3223 (Quantity 3)	541-9025 (Quantity 2)	541-9026	541-9024
H140GC S	K8L	541-9003	541-9023	527-3219	541-8995 (Quantity 3)	541-9025 (Quantity 2)	541-9026	541-9024
H160GC S	KS7	541-9003	541-9023	527-3219	527-3223 (Quantity 4)	591-0616 (Quantity 2)	580-6112	580-6111
H180GC S	KS9	594-3828	594-3826	527-3219	527-3223 (Quantity 4)	591-0616 (Quantity 2)	594-3824	594-3821



TIE RODS

Hammer Model	Serial Number Prefix	Tie Rod GROUP* (Quantity of 4 Required)
H110GC S	KSE	420-7386
H110GC S	K8B	420-7386
H115GC S	HHW	417-8062
H115GC S	K8M	417-8062
H120GC S	HHX	367-0898
H120GC S	K8G	367-0898
H130GC S	WHT	416-4454
H130GC S	K8J	416-4454
H140GC S	WHC	374-4827
H140GC S	K8L	374-4827
H160GC S	KS7	580-4418
H180GC S	KS9	580-6117

* Tie Rod Group includes a Tie Rod, two (2) Tie Rod Nuts and a Washer.



GC SILENCED HAMMERS - MATCHING GUIDE

Hammer Model	311	312	313	314	315	316	318	320	323	325	326	329	330	335	336-340	349	352
H110GC S																	
H115GC S																	
H120GC S																	
H130GC S																	
H140GC S																	
H160GC S																	
H180GC 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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