CAT® GC HAMMERS
PARTS REFERENCE GUIDE

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

PROTECT YOUR INVESTMENT WITH GENUINE CAT® PARTS

THANK YOU FOR SELECTING A CAT GC 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 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 the Cat hammer lubrication requirements and recommended inspection/replacement intervals to properly maintain your asset.

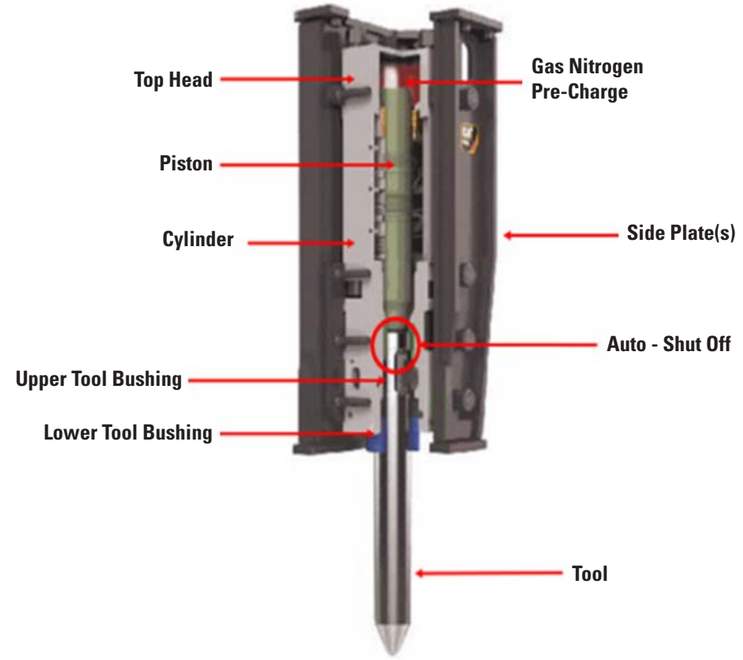
PREVENTATIVE MAINTENANCE PARTS	
	Hammer Components
	Greases and Charging Kit
	Maintenance Interval Schedule
	Estimated Wear Life

REPLACEMENT PARTS

Proper maintenance reduces 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 Diaphragms
OTHER WEAR COMPONENTS
Tie Rods

ANATOMY OF A CAT GC HAMMER



GC 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.
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, non rotatable.
Side Plates	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. Diaphragm is part of the Accumulator.

PREVENTIVE MAINTENANCE - LUBRICATING GREASE

All GC 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 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 components 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**
Tie Rod	2,400	Inspect**
Tie Rod Nut	2,400	Inspect**
MAINTENANCE COMPONENTS		
Cylinder	3,600	—
Piston	3,000	—
Front Head	4,200	—

In addition to daily maintenance requirements.

* Seal set and diaphragm – Every 600 hours or one 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.

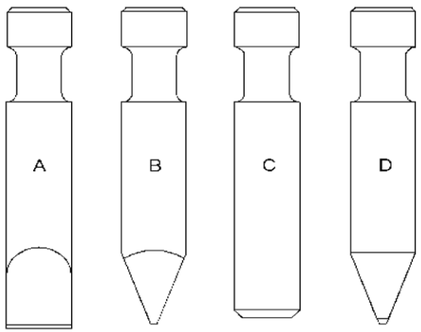
Refer to the OMM for proper inspection and assembly/disassembly as well as wear component tolerances.

MAINTENANCE INTERVAL SCHEDULE

ALL CAT® GC 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 within the OMM.
		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 OMM.
		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 OMM.
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 or every 600 hours – whichever comes first.
	All Wear Components	Inspect all of the wear parts.
		Replace all of the damaged 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	KSC	420-7369	565-4615	565-4616	565-4612	565-4613	565-4614
H115GC	KSM	417-8042	566-1536	569-4710	566-1535	566-1533	566-1534
H120GC	KSP	541-6210	565-8761	569-4711	565-8760	565-8758	565-8759
H130GC	KST	541-6219	565-8767	569-4712	565-8766	565-8762	565-8764
H140GC	KSX	374-7025	566-1540	569-4713	566-1539	566-1537	566-1538
H160GC	KS6	374-7025	595-1652	595-1651	595-1654	595-1655	595-1653
H180GC	KS8	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	KSC	565-9660	420-7370	369-3563	565-3723	N/A
H115GC	KSM	417-8039	417-8044	095-0934	541-6172	417-8040
H120GC	KSP	367-0889	367-0893	199-7560	541-6212	367-0890
H130GC	KST	416-4428	367-0893	199-7560	541-6220	N/A
H140GC	KSX	374-7220	374-7028	199-7560	541-6233	N/A
H160GC	KS6	580-4395	374-7028	199-7560	580-4394	N/A
H180GC	KS8	596-2310	594-5023	199-7560	594-5025	N/A

SEAL KITS (Annual Reseal)

HAMMER MODEL	SERIAL NUMBER PREFIX	SEAL KIT	DIAPHRAGM
H110GC	KSC	591-0627	417-8061
H115GC	KSM	591-0628	417-8061
H120GC	KSP	541-6217	368-9984
H130GC	KST	541-6227	374-7188
H140GC	KSX	541-6238	374-7188
H160GC	KS6	580-4365	580-4398
H180GC	KS8	580-6116	594-5065

TIE RODS

HAMMER MODEL	SERIAL NUMBER PREFIX	TIE ROD GROUP* (QUANTITY OF 4 REQUIRED)
H110GC	KSC	420-7386
H115GC	KSM	417-8062
H120GC	KSP	367-0898
H130GC	KST	416-4454
H140GC	KSX	374-4827
H160GC	KS6	580-4418
H180GC	KS8	580-6117

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

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