



# CAT® GC HAMMERS PARTS REFERENCE GUIDE

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

SN Prefix: H44 – H65




# 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 preventive 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.

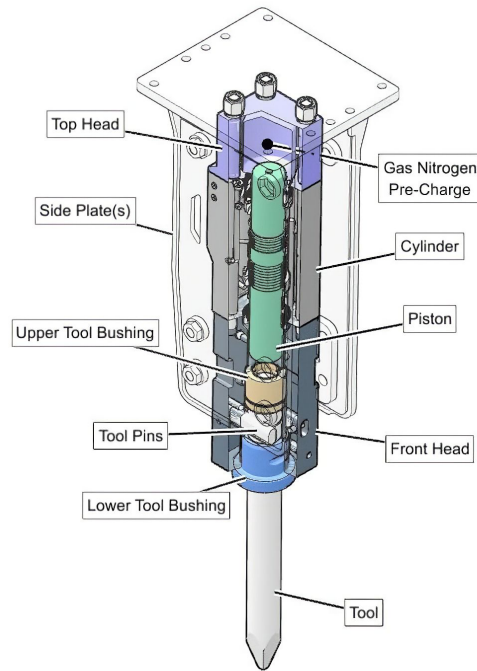
PREVENTIVE MAINTENANCE	
	Hammer Components
	Greases and Charging Kit
	Maintenance Interval Schedule
	Estimated Wear Life

## 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 and Retaining Pins
Seal Kits and Diaphragms
OTHER WEAR COMPONENTS
Tie Rods
COMPATIBILITY
Hammer to Machine Matching Guide

# ANATOMY OF A CAT® GC HAMMER



GC HAMMERS	
Component	Function
<b>Cylinder</b>	One of the three main components that make up the powercell. Piston cycles internally.
<b>Single Manual Grease Point</b>	Standing height. Provides grease to upper and lower tool bushings.
<b>Upper Tool Bushing</b>	Together with the lower tool bushing, aligns the top of the tool with the bottom of the piston.
<b>Lower Tool Bushing</b>	Together with the upper tool bushing, aligns the top of the tool with the bottom of the piston. Slip fit, non rotatable.
<b>Side Plates</b>	Protects the powercell.
<b>Tool</b>	Transfers energy wave into material being broken.
<b>Tool Retaining Pins</b>	Holds tool internally in front head.
<b>Front Head</b>	One of three main components, internal to housing. Thrust ring, upper and lower bushings are internal to front head.
<b>Piston</b>	Cycles internally in cylinder, strikes the top of the tool and transfers "energy wave" through the tool.
<b>Top Head</b>	One of three main components, located on top of the cylinder. Contains the nitrogen charge used to power the piston.
<b>Accumulator</b>	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

PREVENTIVE MAINTENANCE - LUBRICATING GREASE		
All GC Hammer Models	All Serial Number Prefixes	Every 2 hours of operation
		Manual Greasing 400g (14 oz) Cartridge
		130-6951

PREVENTIVE MAINTENANCE - GAS CHARGING KIT		
All GC Hammer Models	All Serial Number Prefixes	525-5761

## MAINTENANCE INTERVAL SCHEDULE

### All Cat® GC Hammer Models and Serial Number Prefixes

Interval	Component	Action Required
<b>When Required</b>	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.
		Rotate or replace the tool bushing if the tool bushing has too much wear.
		Replace the seals if the seals are worn or damaged.
	<b>Every 2 Service Hours, or 4 Times Daily</b>	Lubricate Work Tool
<b>Initial 50 Hours</b>	Mounting Bracket Bolts	Tighten the bolts for the mounting bracket to the required torque value. Refer to Operations and Maintenance Manual Instructions.
<b>Every 50 Service Hours, or Weekly</b>	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.
	<b>Every 600 Service Hours, or 1 Year – whichever comes first</b>	Seals and Diaphragm
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” section and “Systems Operation, Testing and Adjusting” section for information on the hammer.

# WEAR LIFE & ACTIONS

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 Operations and Maintenance Manual. The hours noted are only an estimation and may need to be replaced prior to the listed hours.

<b>GC HAMMERS</b>		
<b>Description</b>	<b>Estimated Life of Components (Hrs)</b>	<b>Recommended Actions</b>
Tool (Tool Bit)	600 ***	Inspect and Replace as required
<b>Wear Components</b>		
Lower Bushing	300	Inspect or Replace if needed
Tool Retainers	600	Inspect**
Seal Set *	600 or 1 Year	Annual Reseal *
Diaphragm *	600 or 1 Year	Replace with Reseal *
Upper Bushing	600	Inspect**
Tie Rod	2400	Inspect**
Tie Rod Nut	2400	Inspect**
<b>Maintenance Components</b>		
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.

# HAMMER TOOLS

Hammer Model	Serial Number Prefix	"Retaining Pin (2 required)"	Chisel	Forged Tip Chisel	Moil	Moil	Blunt	Pyramidal
H110GC	H44	581-7632	613-9285	NA	613-9284	NA	613-9282	614-4231
H120GC	H45	611-2942	614-4228	638-2321	614-4227	NA	614-4229	614-4226
H130GC	H62	619-6096	619-6217	647-4983	619-6216	NA	619-6218	619-6215
H140GC	H63	625-9722	627-4612	647-4984	627-4611	NA	627-4614	627-4610
H160GC	H64	625-5890	627-4618	647-4985	627-4616	627-4617	627-4619	628-5414
H180GC	H65	622-2326	625-0789	647-4986	625-0786	625-0788	625-0790	625-0787

# TOOLS

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

# BUSHINGS

Hammer Model	Serial Number Prefix	Lower Bushing	Lower Bushing Pin Assembly		Upper Bushing
			Retaining Pin	Ring	
H110GC	H44	581-7612	581-7616	581-7618	581-7615
H120GC	H45	611-2940	611-2939	611-8918	611-2941
H130GC	H62	619-6093	619-6094	581-7618	619-6092
H140GC	H63	625-9720	619-6094	625-9722	625-9719
H160GC	H64	625-5888	625-5889	581-7618	625-5885
H180GC	H65	622-2324	622-2328	581-7618	620-0609

# SEAL KITS

Hammer Model	Serial Number Prefix	Seal Kit	Diaphragm
H110GC	H44	581-7623	NA
H120GC	H45	611-3388	611-8926
H130GC	H62	619-6173	619-6146
H140GC	H63	625-2317	619-6146
H160GC	H64	625-2285	625-5960
H180GC	H65	622-3197	622-3193

# TIE RODS

Hammer Model	Serial Number Prefix	Tie Rod Group* (Quantity of 4 Required)	Washer-Tie Rod (Quantity of 4 Required)	Nut-Tie Rod (Quantity of 4 Required)
H110GC	H44	581-7620	581-7630	581-7631
H120GC	H45	611-2943		
H130GC	H62	618-8034		
H140GC	H63	625-2316		
H160GC	H64	625-2283		
H180GC	H65	621-4515		

\* Tie Rod Group includes a Tie Rod, two (2) Tie Rod Nuts and a Washer (Except for the H110GC model).

# MATCHING GUIDE

Hammer Model	313	315	316	317	318	320	323	325	326	330	333	336	340	345	350	352
H110GC																
H120GC																
H130GC																
H140GC																
H160GC																
H180GC																

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.





**LET'S DO THE WORK.™**



To buy Cat parts online, visit [Parts.cat.com](https://Parts.cat.com).

PEBJ0242  
[www.cat.com](https://www.cat.com)

© 2024 Caterpillar. All Rights Reserved. CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Corporate Yellow", the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

