



# CAT® B MODEL HAMMERS PARTS REFERENCE GUIDE

MODELS: B1, B2, B4, B6, B8, B9

**LET'S DO THE WORK.™**




# PROTECT YOUR INVESTMENT WITH GENUINE CAT® PARTS

Thank you for selecting a Cat® B Series Hammer.

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

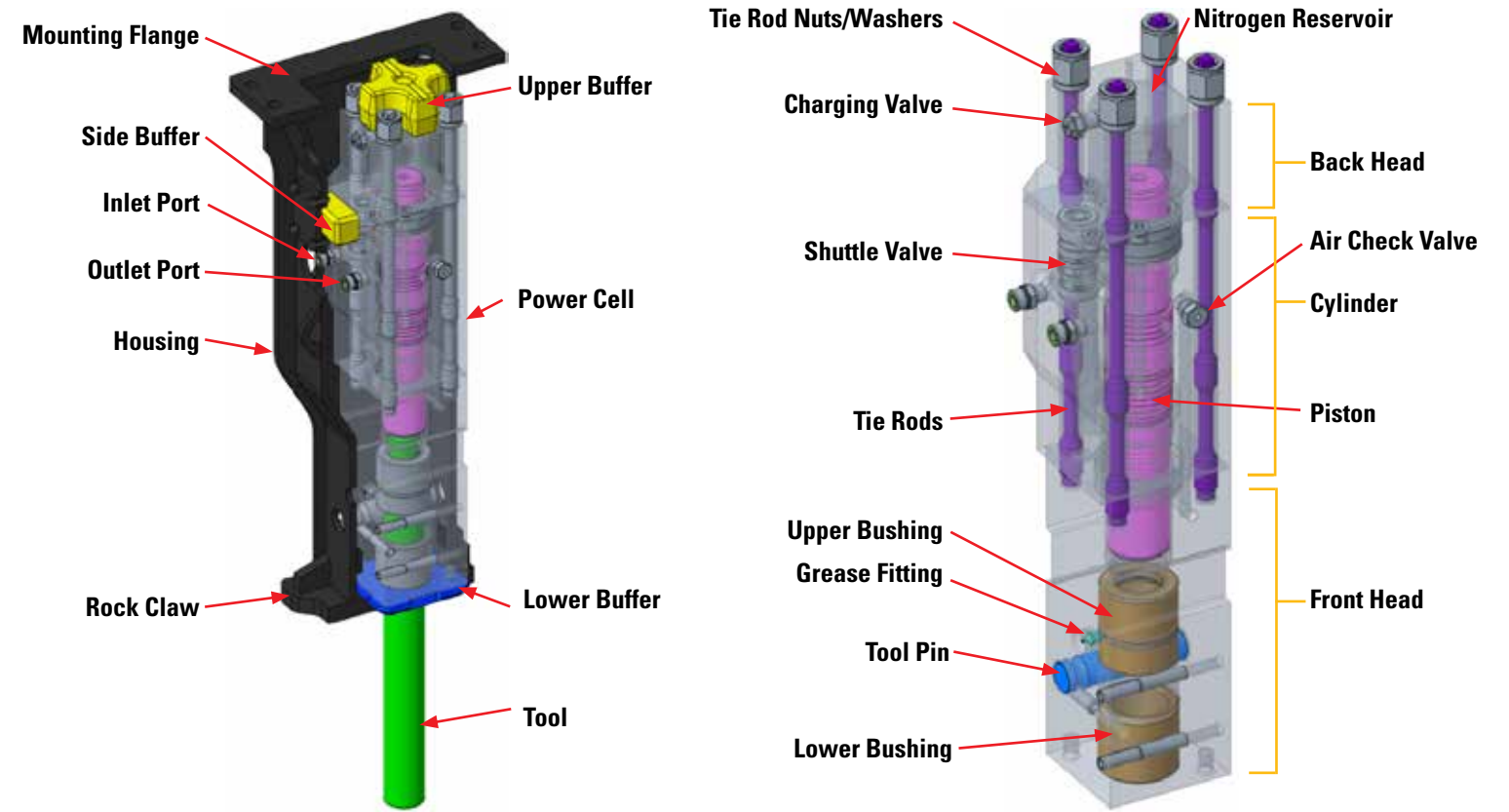
SCHEDULED REPAIR PARTS	
	HAMMER COMPONENTS
	GREASES AND CHARGING KIT
	MAINTENANCE INTERVAL SCHEDULE
	ESTIMATED WEAR LIFE

## 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
HAMMER BRACKETS
HAMMER LINES
QUICK DISCONNECTS
BUSHINGS, RETAINING PINS
SEAL KITS
OTHER WEAR COMPONENTS
BUFFERS
TIE RODS
COMPATIBILITY
HAMMER TO MACHINE MATCHING GUIDE

## ANATOMY OF A CAT® B SERIES HAMMER (silenced hammer shown)



Component	Function
<b>Mounting Flange</b>	Surface used to bolt the mounting bracket to the hammer.
<b>Buffer (Side/Upper/Lower)</b>	On silenced hammers, these are positioned between the power cell and housing and protect the machine from impulse forces.
<b>Inlet Port</b>	Connects to the machine auxiliary supply via jumper line.
<b>Outlet Port</b>	Connects to the machine auxiliary return via jumper line.
<b>Housing</b>	Structural frame of the hammer. Assembles to the machine via a mounting bracket. Supports and protects the power cell.
<b>Rock Claw</b>	Used to move material into position for breaking.
<b>Power Cell</b>	Hydraulic component that converts hydraulic flow from the machine into reciprocating motion of the piston.
<b>Tool</b>	Ground engaging part of hammer. It transfers energy from the piston into the material being broken.
<b>Tie Rod Nuts/Washers</b>	Holds the back head, cylinder, and front head power cell sections together.
<b>Charging Valve</b>	Used to charge the back head with nitrogen and to check nitrogen pressure.
<b>Shuttle Valve</b>	Controls the up and down motion of the piston via hydraulic fluid distribution.
<b>Upper Bushing</b>	Wear parts that guide the tool and keep it inline with the piston. The upper bushing constrains the upward motion of the tool.
<b>Grease Fitting</b>	Used to supply grease between the bushings and tool.
<b>Tool Pin</b>	Retains the hammer tool within the front head. It is retained, in turn, by a roll pin.
<b>Lower Bushing</b>	Wear parts that guide the tool and keep it in-line with the piston.
<b>Nitrogen Reservoir</b>	Pressurized compartment within the back head, above the piston.
<b>Back Head</b>	Top portion of power cell. It contains the nitrogen charge used to store energy and impart down force to the piston.
<b>Air Check Valve</b>	Vents air pressure from the impact chamber during hammer operation, preventing damage to the lower cylinder seals.
<b>Cylinder</b>	Middle portion of the power cell. It contains the piston which cycles up and down, in time with the shuttle valve.
<b>Piston</b>	Cycles up and down within the cylinder. It strikes the top of the tool, transferring an "energy wave" through the tool.
<b>Front Head</b>	Lower portion of the power cell. It retains and guides the hammer tool.

## PREVENTIVE MAINTENANCE - LUBRICATING GREASE

All B Series 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 B Series Hammer Models	All Serial Number Prefixes	A complete charging kit for B Series Hammers would include items A and B and item C or D. Item E for reference only.		
		Item Reference	Part Description	Part Number
		A	Charging Valve	525-5761
		B	Charging Hose	553-6682*
		C	Valve Extention	544-4680**
		D	Valve Extention	580-9900***
		E	Regulator	162-4146****

- \* Compressed Gas Association (CGA) 580 hose
- \*\* Needed to access charge port on silenced B1-B8 Hammers
- \*\*\* Needed to access charge port on silenced B9 Hammer
- \*\*\*\* Nitrogen tank regulator.

## 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
<b>Wear Components</b>		
Lower Bushing	300	Inspect, Rotate or Replace if needed
Tool Retainers	600	Inspect**
<b>Seal Set*</b>	600 or 1 Year	Annual Reseal*
<b>Membrane*</b>	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**
<b>Maintenance Components</b>		
Front Head	2400	—
Cylinder	3600	—
Piston	3000	—

In addition to daily maintenance requirements.

- \* Seal Set and Membrane - 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.

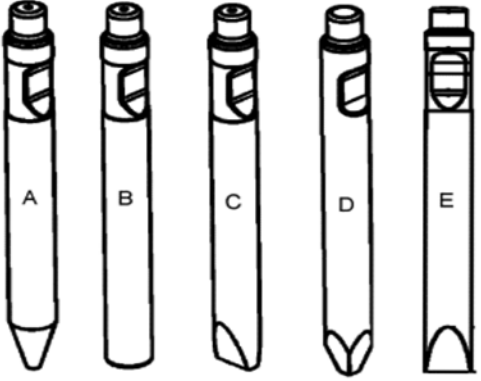
Refer to the Operations and Maintenance manual for proper Inspection and Assembly/Disassembly as well as Wear Component Tolerances.


## MAINTENANCE INTERVAL SCHEDULE

All Cat® B Series Hammer Models and Serial Number Prefixes		
Interval	Component	Action Required
When Required	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 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.
	Upper and Lower Bushings	Inspect the tool contact area for wear and compare with Wear Limits in Operations and Maintenance Manual (OMM). Replace the bushing if it exceeds the wear limits.
Back Head	Check Nitrogen pressure if hammer starts to lose power and recharge as needed, as described in the OMM.	
Every 2 Service Hours, or 4 Times Daily	Lubricate Work Tool	Apply 10 to 15 strokes from the grease gun to the grease fitting.
Initial 50 Hours	Mounting Bracket Bolts	Re-tighten to the required torque value. Refer to OMM instructions.
	Housing Bolts	Re-tighten to the required torque value. Refer to OMM instructions. Non-silenced hammers only.
Every 50 Service Hours, or Weekly	Jumper Lines	Check supply and return lines for damage, or leaks.
		Check quick disconnects and hydraulic connectors for damage, or leaks. Replace as needed. Replace quick disconnects as a matching pair.
	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.		
Upper and Lower Bushings	Inspect the tool contact area for wear and compare with Wear Limits in the OMM. Replace the bushing if it exceeds the wear limits.	
Every 100 Service Hours, or Monthly	Back Head	Charge Back Head. Follow charging instructions and pressures, as detailed in the OMM.
Every 600 Service Hours, or 1 Year, whichever comes first	Seals	The hammer MUST BE RESEALED 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, 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	Tool Pin	Retention Pin (retains tool pin)	Chisel, In-line	Chisel, Cross-cut	Cone	Blunt	Pyramidal (Moil)	Compacting Plate	Spade, In-line	Spade, Cross-cut	Post Driver
B1	HYA	532-9157	532-9156	542-1752	542-1753	542-1750	542-1751	532-9151	582-1490	582-1495	582-1500	-
B1 (Pin On)		532-9157	532-9156	576-5523	576-5524	565-6082	-	-	582-1490	582-1495	582-1500	-
B2	HA2	532-9171	532-9156	542-1756	542-1757	542-1754	542-1755	532-9175	582-1491	582-1496	582-1501	-
B4	HA4	542-1766	532-9156	542-1760	542-1761	542-1758	542-1759	532-9190	582-1492	582-1497	582-1502	-
B6	HA6	523-3164	523-3190	523-3191	523-3197	523-3195	523-3196	523-3193	582-1493	582-1498	582-1503	582-1506
B8	HA8	532-9182	523-3190	532-9121	532-9119	532-9118	532-9117	532-9120	582-1494	582-1499	582-1504	582-1507
B8 TUCK		532-9182	523-3190	566-3425	566-3423	566-3422	566-3421	566-3424	-	-	-	-
B9	HA9	532-9212 (Quantity 2)	581-7598 369-7533	542-1764	542-1765	542-1762	542-1763	532-9219	-	-	-	-

Profile Selection		
	<b>(A) Cone Tool</b>	Multi-use applications, such as breaking hard rock, concrete or bedrock.
	<b>(B) Blunt Tool</b>	Best used in primary breaking applications such as breaking concrete or bedrock, trenching or operating on slopes.
	<b>(C) Chisel Tool (Cross Cut)</b>	Best used in primary breaking applications such as breaking concrete or bedrock, trenching or operating on slopes.
	<b>(D) Pyramidal (Moil) Tool</b>	Multi-use applications, such as breaking hard rock, concrete, bedrock and trenching.
	<b>(E) Chisel Tool (In Line)</b>	Best used in primary breaking applications such as breaking concrete or bedrock, trenching or operating on slopes.

Profile Selection		
	<b>(F) Compacting Plate</b>	Best for compacting soil or gravel.
	<b>(G) Spade, Inline</b>	Used for cutting asphalt or soft rock.
	<b>(H) Spade, Cross-cut</b>	
	<b>(I) Post Driver</b>	Used for driving metal or wooden posts.

## HAMMER BRACKETS

Machine Model	Coupler Type	Pin Diameter in (mm)	Small	Medium	Large	Extra Large
			B1, B2, B4 Hammer	B1, B2, B4 Hammer	B6 Hammer	B9 Hammer
<b>1 TON Mini Hydraulic Excavator</b>	Pin On/Pin Grabber	1.2 (30)	532-9055	532-9055	-	-
<b>2 TON Mini Hydraulic Excavator</b>	Pin On/Pin Grabber	1.4 (35)	532-9057 532-9053	532-9057	532-9053	-
<b>3-4 TON Mini Hydraulic Excavator</b>	Pin On/Pin Grabber	1.6 (40)	532-9059 532-9063	532-9059 532-9275 and 249-1145	532-9063 532-9275 and 249-1145	-
<b>5-6 TON Mini Hydraulic Excavator</b>	Pin On/Pin Grabber	1.8 (45)	569-5414	532-9275 and 316-0412	569-5414 532-9275 and 316-0412	611-9614
<b>7-9 TON Mini Hydraulic Excavator</b>	Pin On/Pin Grabber	2.0 (50)	-	-	532-9067	564-9840
<b>10 TON Mini Hydraulic Excavator 450 Backhoe Loader</b>	Pin On/Pin Grabber	2.4 (60)	-	-	-	564-9843
<b>311-313 Small Hydraulic Excavators</b>	Pin On/Pin Grabber	2.6 (65)	-	-	-	393-7732
<b>415-444 Backhoe Loaders - NonTuck</b>	Pin On/Pin Grabber	1.8 - 2.0 (45 - 50)	-	-	567-9320	564-9842
<b>415-444 Backhoe Loaders - Tuck</b>	Pin Grabber	1.8 - 2.0 (45 - 50)	-	-	572-6066	-
<b>415-444 Backhoe Loaders - Tuck</b>	Pin On - Standard Stick	1.8 - 2.0 (45 - 50)	-	-	551-1546	-
<b>415-444 Backhoe Loaders - Tuck</b>	Pin On - E Stick	1.8 - 2.0 (45 - 50)	-	-	565-3682	-
<b>Skid Steer Loader/Compact Track Loader/ Multi Terrain Loader - Bolt On</b>	Skid Steer Loader Interface		-	532-9250		-
<b>Skid Steer Loader/Compact Track Loader/ Multi Terrain Loader - Pin On</b>	Skid Steer Loader Interface		-	532-9249 and 532-9275		-
<b>CW Series Couplers</b>	CW-05		442-9851 450-9815	442-9851	450-9815	-
	CW-10		440-3180	-	440-3180	415-6111
<b>Pin Lock Couplers</b>	Pin Lock	1/4 Yard	-	-	443-7285	416-8031
	Pin Lock	1/2 Yard	-	-	-	564-2732
<b>S Type Coupler</b>	S30 (180)	1.2 (30)	611-9600	611-9600	-	-
	S40 (200)	1.6 (40)	611-9602	611-9602	-	-
	S40 (200)	1.6 (40)	611-9604	-	611-9604	-
	S45	1.8 (45)	-	-	611-9606	-
	S45	1.8 (45)	-	-	-	611-9608
	S50	2.0 (50)	-	-	611-9610	-
		S50	2.0 (50)	-	-	611-9612

## HAMMER LINES

Machine Model	B1 Hammer	B2 Hammer	B4 Hammer	B6 Hammer	B8 Hammer	B9 Hammer
<b>1 TON Mini Hydraulic Excavator</b>	532-9086		-	-	-	-
<b>2 TON Mini Hydraulic Excavator</b>	532-9087			-	-	-
<b>3-4 TON Mini Hydraulic Excavator</b>	-	-	532-9088		-	-
<b>5-6 TON Mini Hydraulic Excavator</b>	-	-	-	532-9089		-
<b>7-9 TON Mini Hydraulic Excavator</b>	-	-	-	532-9089		580-9885
<b>10 TON Mini Hydraulic Excavator</b>	-	-	-	-	-	580-9885
<b>415-444 Backhoe Loaders with NonTuck Bracket</b>	-	-	-	570-6298		-
<b>415-444 Backhoe Loaders with Tuck Bracket</b>	-	-	-	565-6083		-
<b>450 Backhoe Loader</b>	-	-	-	-	-	532-9282
<b>Skid Steer Loader/Compact Track Loader/ Multi Terrain Loader</b>	-	-	532-9264			-

## QUICK DISCONNECTS

Screw type locking Quick Disconnects are recommended for hammer applications.

Machine Model	Male	Female	Kit
<b>1 TON Mini Hydraulic Excavator</b>	609-9910	609-9921	611-6995
<b>2-10 TON Mini Hydraulic Excavator</b>	609-9883	609-9890	611-6997
<b>Backhoe Loaders</b>	459-0688	459-0675	-

## LOWER AND UPPER BUSHINGS

Hammer Model	Serial Number Prefix	Lower Bushing	Upper and Lower Bushing Retention			Upper Bushing
		Lower Bushing	Retaining Pin (solid)	Retaining Pin (spring)	Retaining Pin	Upper Bushing
B1	HYA	532-9160	532-9155	532-9154	-	532-9159
B2	HA2	532-9174	532-9155	532-9154	-	532-9173
B4	HA4	532-9189	532-9155	532-9154	-	542-1769
B6	HA6	544-4644	544-4674	544-4675	-	544-4643
B8	HA8	544-4649	544-4674	544-4675	-	544-4648
B9	HA9	532-9218	-	-	581-7598 369-7533	532-9217*

\*Upper bushing is retained by tool pins

## BUFFERS

Hammer Model	Serial Number Prefix	Top Buffer	Bottom Buffer	Rear Buffer	Side Buffer	Side Buffer
B1s	HYA	570-1926	570-1927	544-4672	570-1928 (Quantity 7)	-
B2s	HA2	570-1926	570-1930	544-4672	570-1931 (Quantity 7)	-
B4s	HA4	544-4605	544-4606	544-4672	532-9149 (Quantity 2)	-
B6s	HA6	544-4646	544-4647	544-4603	-	-
B8s	HA8	544-4646	532-9148	544-4603	572-7003 (Quantity 3)	532-9085 (Quantity 6)
B9s	HA9	580-9891	580-9890	580-9894 (Quantity 2)	580-9892 (Quantity 4)	580-9893 (Quantity 7)

NOTE: Buffers are only applicable to the silenced hammers.

## SEAL KITS (Annual Reseal)

Hammer Model	Serial Number Prefix	Seal Kit
B1	HYA	532-9161
B2	HA2	532-9176
B4	HA4	532-9191
B6	HA6	523-3145
B8	HA8	523-3146
B9	HA9	540-6531

## TIE RODS

Hammer Model	Serial Number Prefix	Tie Rod Nut	Tie Rod Washer	Tie Rod
B1	HYA	532-9142	532-9143	532-9144
B2	HA2	532-9164	532-9165	532-9166
B4	HA4	532-9178	532-9179	532-9180
B6	HA6	523-3151	523-3152	523-3153
B8	HA8	523-3168	523-3169	523-3170
B9	HA9	532-9194	532-9195	532-9196

## MATCHING GUIDE

Hammer Model	Mini Hydraulic Excavators									Skid Steer and Compact Track Loaders	Backhoe Loaders	
	<1 ton	1 ton	2 ton	3 ton	4 ton	5 ton	6 ton	7-9 ton	10 ton	All Models	415-440	450
B1	Pin-On only											
B2												
B4												
B6												
B8												
B9												

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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