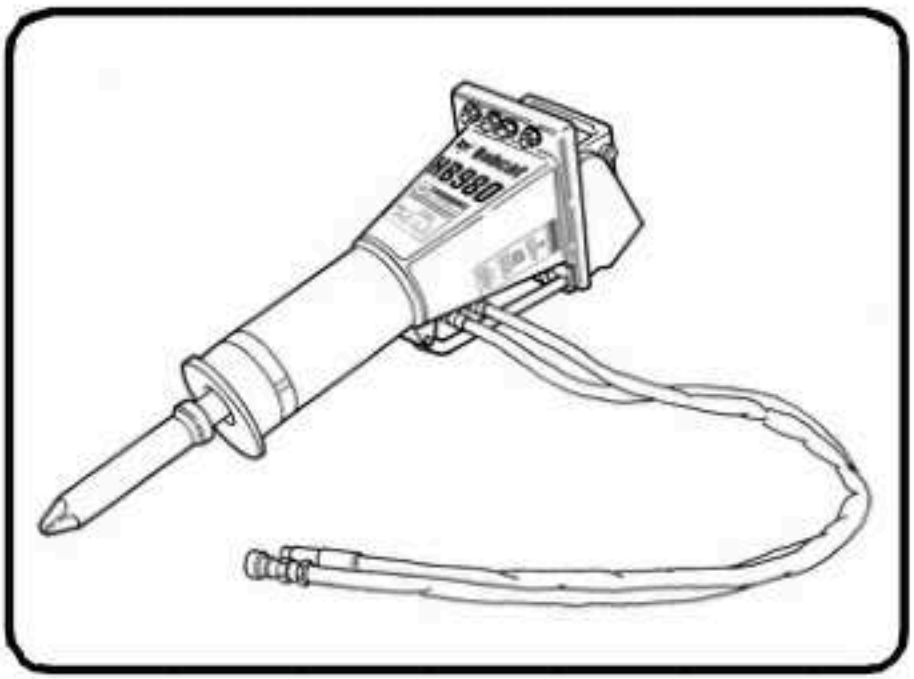
Bobcat®

Service Manual

HB Series Hydraulic Breaker

(Breaker HB280) S/N A5T500101 & Above
(Breaker HB380) S/N A01Q00101 & Above (Europe Only)
(Breaker HB580) S/N A00V00101 & Above (Europe Only)
(Breaker HB680) S/N A00W00101 & Above
(Breaker HB880) S/N A00X00101 & Above
(Breaker HB980) S/N A00Y00101 & Above
(Breaker HB1180) S/N A01R00101 & Above



6904105 (11-09)

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Chart (Cont'd)

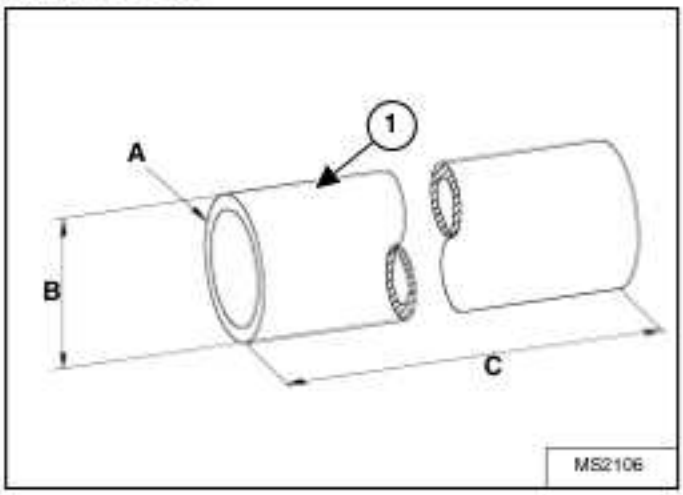
PROBLEM	CAUSE	CORRECTION
Breaker fires erratically.	Machine main relief valve set too low.	Adjust main relief valve to correct setting.
	Excessive back pressure.	Check for plugged or bent return lines.
	Low fluid level.	Add fluid to the reservoir as needed.
	Not enough hydraulic flow.	Test hydraulics for correct flow and pressure.
	Damaged hydraulic couplers.	Replace hydraulic couplers.
	Tool binding	Add grease to the tool shank fitting.
Breaker runs for twenty minutes then stops. Breaker will restart after thirty minutes of idle time.	Oil overheating	Clean machine radiator.
		Adjust main relief valve to correct setting.
		Add hydraulic fluid to the fluid reservoir
	Breaker distributor damage from overheating	Replace distributor. (See Breaker Service Manual)
Breaker lacks striking force.	Regulator ring damaged.	Replace regulator ring. (See Breaker Service Manual)
	Not enough hydraulic flow.	Test hydraulics for correct flow and pressure.
	Accumulator nitrogen pressure low.	Check nitrogen pressure. If oil in accumulator chamber, replace diaphragm. If pressure low, recharge nitrogen. (See Breaker Service Manual)
		Make sure nitrogen fill plug is installed and torque to specifications.
	Tool is broken inside bushing.	Replace tool.
Excessive heat build up.	Blank firing.	Refer to the hydraulic controls section for correct operating procedure.
	Machine fluid reservoir is low.	Add hydraulic fluid to the fluid reservoir.
Hydraulic hoses between breaker and machine are pulsing more than normal.	Nitrogen charge pressure is low.	Check nitrogen pressure. If oil in accumulator chamber, replace diaphragm. If pressure low, recharge nitrogen. (See Breaker Service Manual)
	Accumulator nitrogen pressure is low.	
Hydraulic oil on breaker tool.	Damaged piston seals.	Replace seals. (See Breaker Service Manual)
Tool breakage	Firing without sufficient down force on the tool.	Apply additional down force with the machine.
	Using the tool as a pry bar.	Only use perpendicular down force on the tool when breaking, do not pry with tool.
	Grinding on the side face of the tool.	Grinding on the side face of the tool may cause fatigue points or stress areas on the tool.
	Tool corrosion	If the breaker or tool is unused for extended periods of time, retract tool and grease the outside of the tool.
	Cold tool	If used in cold weather, keep tool in a warm area prior to usage.

See the following troubleshooting chart also.

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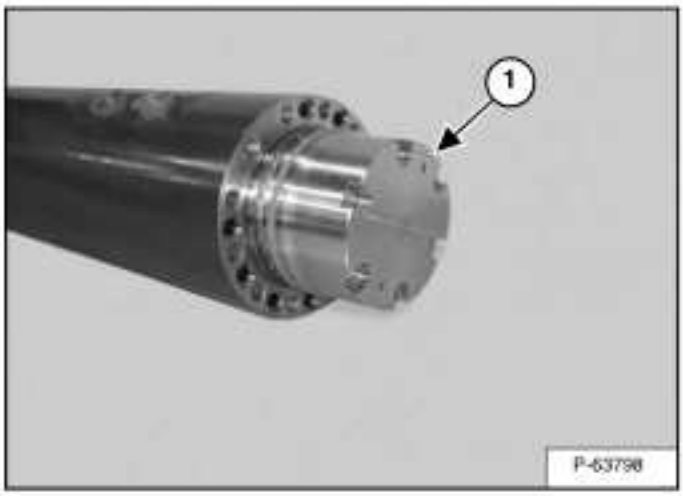
Disassembly (Cont'd)

Figure 30-20-15



	HB280	HB380	HB580	HB680	HB880	HB980	HB1180
A= Wall Thickness	0.19 in. 5 mm	0.18 in. 4,7 mm	0.18 in. 4,7 mm	0.16 in. 3,9 mm	0.16 in. 3,9 mm	0.16 in. 3,9 mm	0.219 in. 5,56 mm
B= Outside Diameter	2.0 in. 50 mm	2.12 in. 54 mm	2.38 in. 60,3 mm	2.44 in. 62 mm	2.75 in. 70 mm	3.25 in. 83 mm	3.44 in. 87,38 mm
C= Wall Length	23.5 in. 600 mm	23.5 in. 597 mm	23.75 in. 603 mm	27.0 in. 686 mm	29.5 in. 749 mm	31.0 in. 787 mm	37.0 in. 939,8 mm

Figure 30-20-16



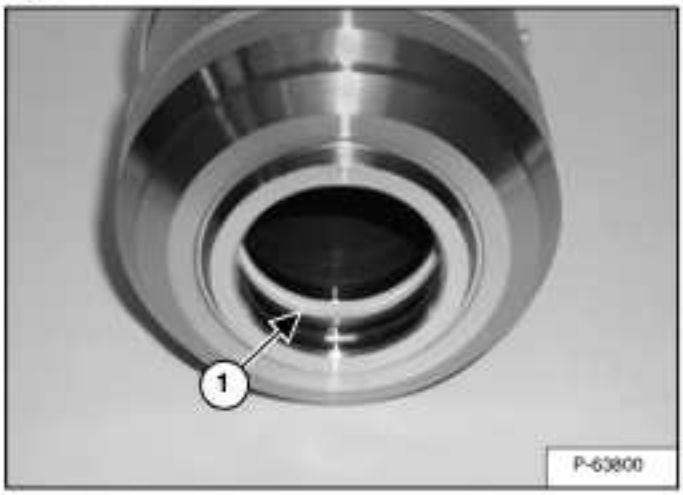
Remove the distributor cover (Item 1) **[Figure 30-20-16]** from the breaker.

Figure 30-20-17



Remove the seal (Item 1) **[Figure 30-20-17]** and discard.

Figure 30-20-18



Remove the two piece seal (Item 1) **[Figure 30-20-18]** and discard.

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