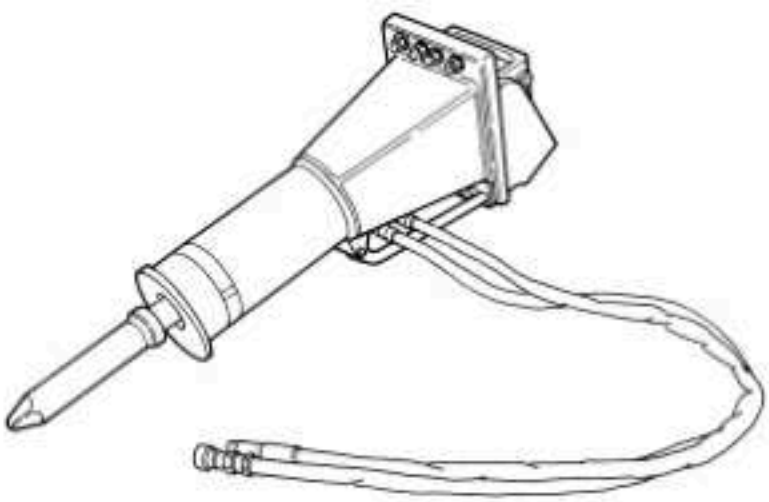
Hydraulic Breaker

Bobcat®

Service Manual

HB1380 S/N AC4500101 & Above
HB2380 S/N A5T600101 & Above



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CALIFORNIA
PROPOSITION 65 WARNING

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

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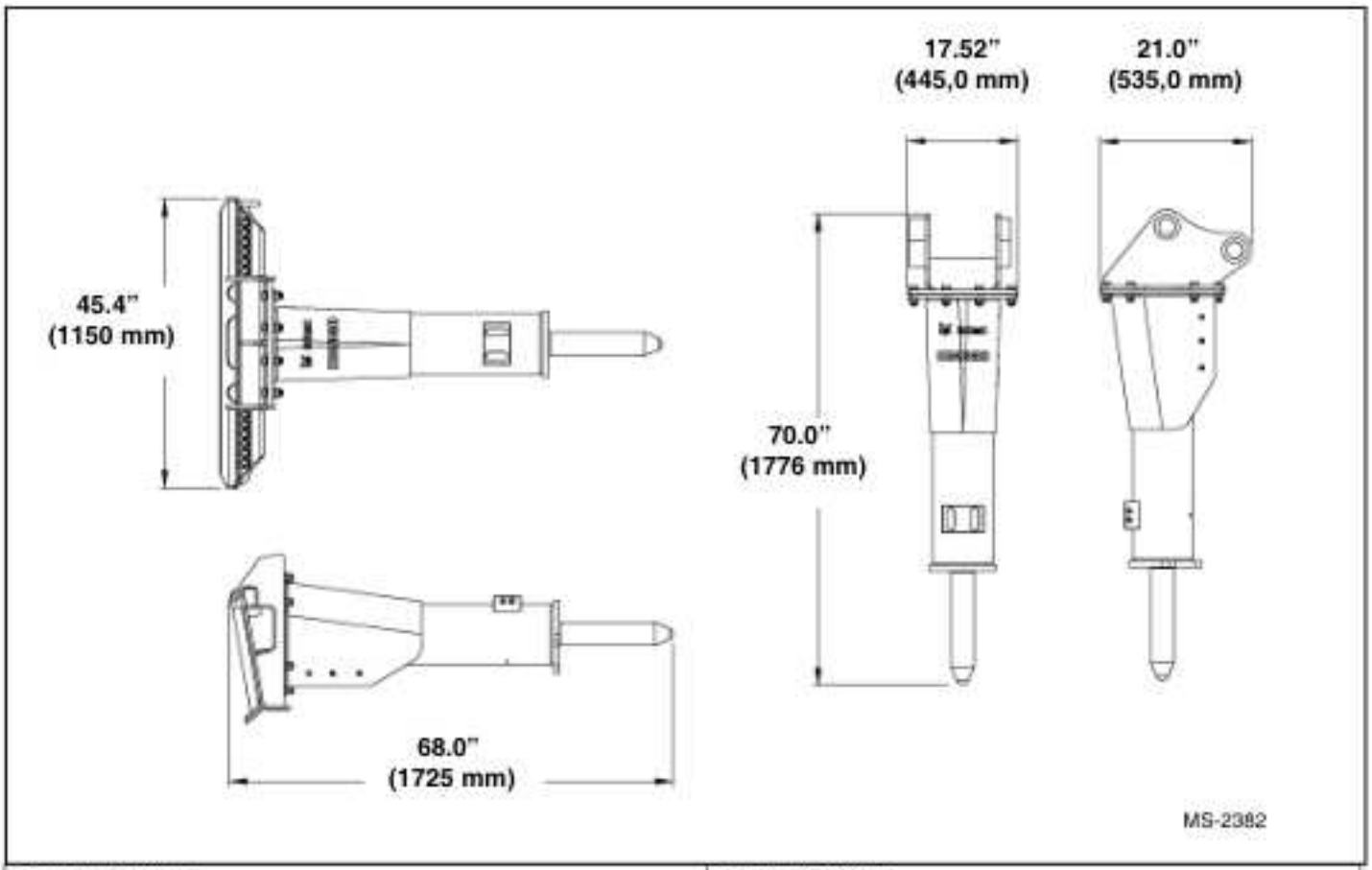
PROBLEM	CAUSE	CORRECTION
Breaker fires erratically	Machine main relief valve set too low	Adjust main relief valve to correct setting
	Excessive back pressure	Check for plugged or bent return lines
	Low fluid level	Add fluid to the reservoir as needed
	Not enough hydraulic flow	Test hydraulics for correct flow and pressure
	Damaged hydraulic couplers	Replace hydraulic couplers
	Tool binding	Add grease to the tool shank fitting
Breaker runs for 20 minutes then stops. Breaker will restart after 30 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
Breaker lacks striking force	Regulator ring damaged	Replace regulator ring
	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.
		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.
	Accumulator nitrogen pressure is low	
Hydraulic oil on breaker tool	Damaged piston seals	Replace seals
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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SPECIFICATIONS - HB2380

- All dimensions are shown in inches. Respective metric dimensions are given in millimeters enclosed by parentheses.
- Where applicable, specifications conform to SAE and ISO standards and are subject to change without notice.



Breaker Weight With Pin-On Mount With Bob-Tach Mount	829 lb. (376 kg) 953 lb. (432 kg) 1109 lb. (503 kg)
Blow Rate	
Soft Ground	690 bpm
Hard Ground	910 bpm
Hydraulic Flow	19.8 - 33.0 GPM (75 - 125 L/min.)
Operating Pressure	1900 PSI (130 bar)
Nitrogen Charge Pressure	465 PSI (32 bar)
Bit Diameter	3.75 in. (95 mm)
Bit Working Length	18.0 in. (457 mm)
Bits Available	Crosscut Chisel Inline Chisel Nail Point Conical Point Crosscut Wide Wide Chisel X-Cut Asphalt Inline Asphalt Blunt Point

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