



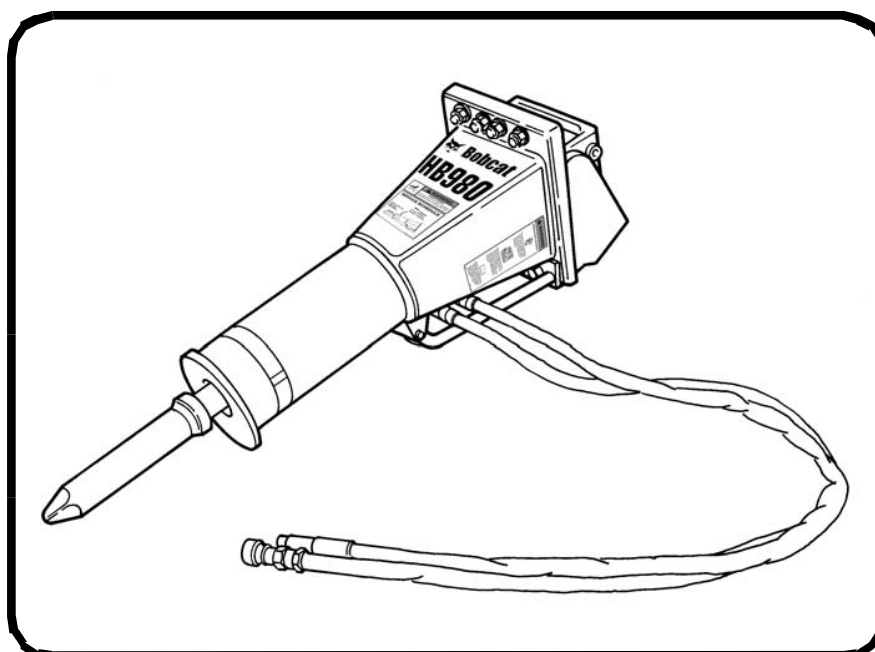
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# Service Manual

## HB Series Hydraulic Breaker

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(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





# MAINTENANCE SAFETY



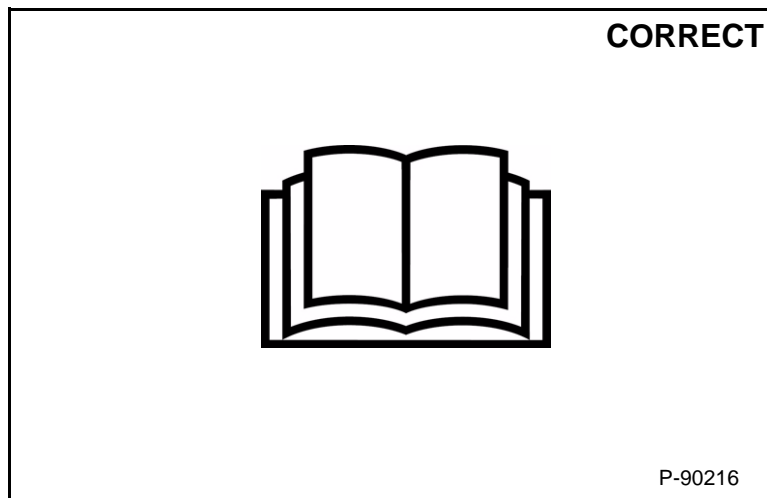
## WARNING









Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

W-2003-0807



**Safety Alert Symbol:** This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.



-  Never service attachments / implements without instructions. See Operation & Maintenance Manual and Attachment / Implement Service Manual.
-  Cleaning and maintenance are required daily.
-  Never service or adjust attachment / implement with the engine running unless instructed to do so in manual.
-  Always lower the attachment / implement to the ground before lubricating or servicing.
-  Avoid contact with leaking hydraulic fluid or diesel fuel under pressure. It can penetrate skin or eyes.
-  Stop, cool and clean engine of flammable materials before checking fluids.
-  Keep body, loose objects and clothing away from moving parts, electrical contacts, hot parts and exhaust.
-  Safety glasses are needed for eye protection from electrical arcs, battery acid, compressed springs, fluids under pressure and flying debris or when tools are used. Use eye protection approved for type of welding.



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## SERIAL NUMBER LOCATION

### Attachment Serial Number

Always use the serial number of the hydraulic breaker when requesting service information or when ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure in doing a specific service operation.

Figure 1

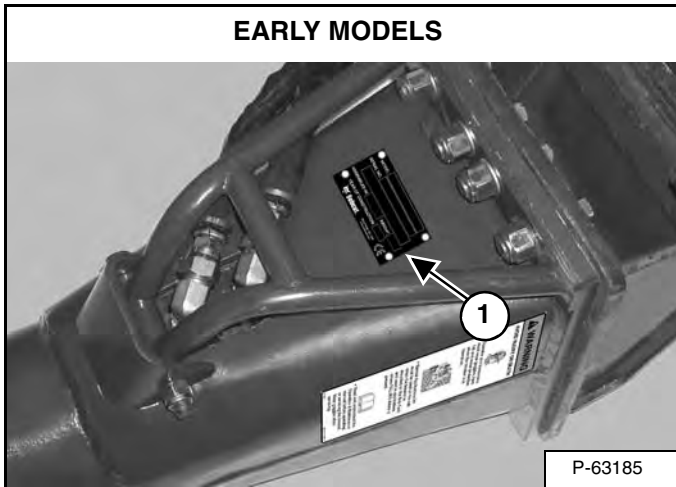


Figure 2

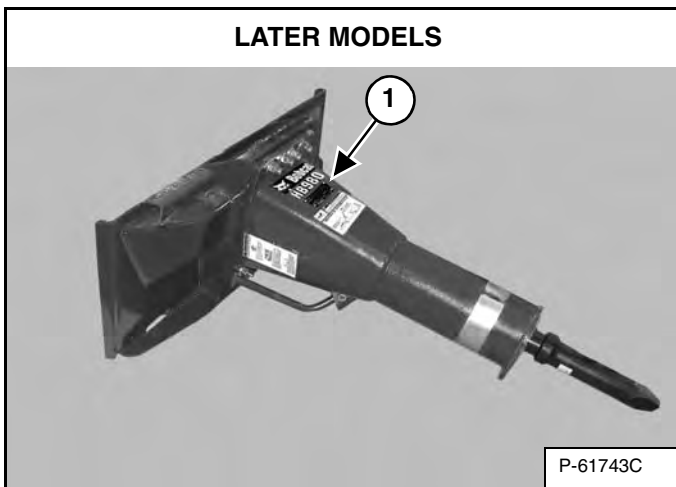
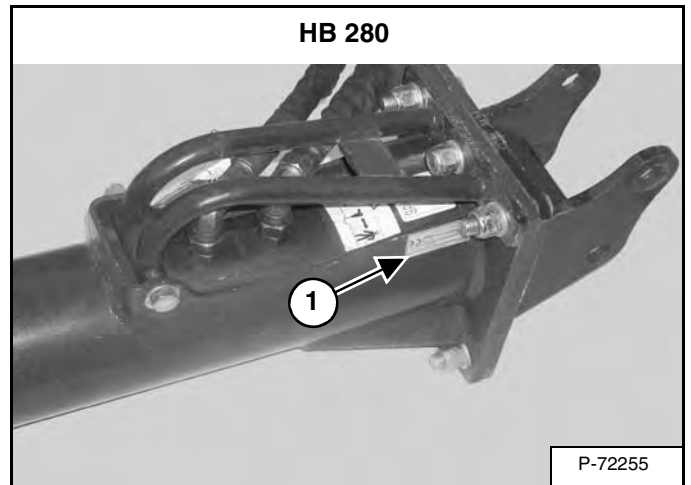
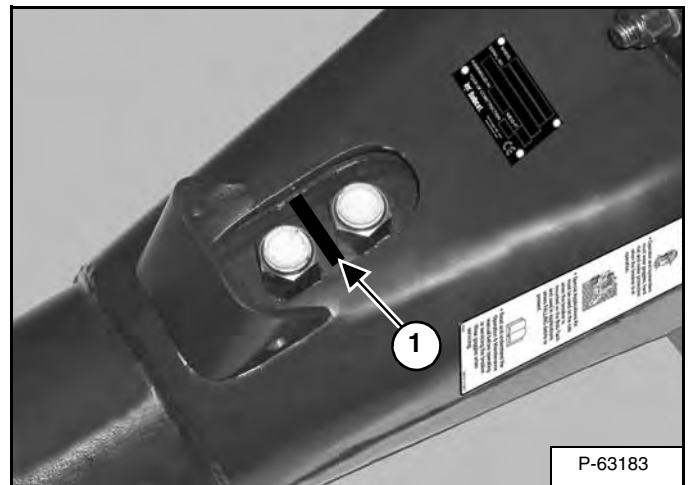


Figure 3



The breaker serial number plate (Item 1) [Figure 1], [Figure 2] or [Figure 3] is located on the frame.

Figure 4



**NOTE:** The breaker serial number (Item 1) [Figure 4] is also etched into the face of the breaker power cell between the hydraulic ports.

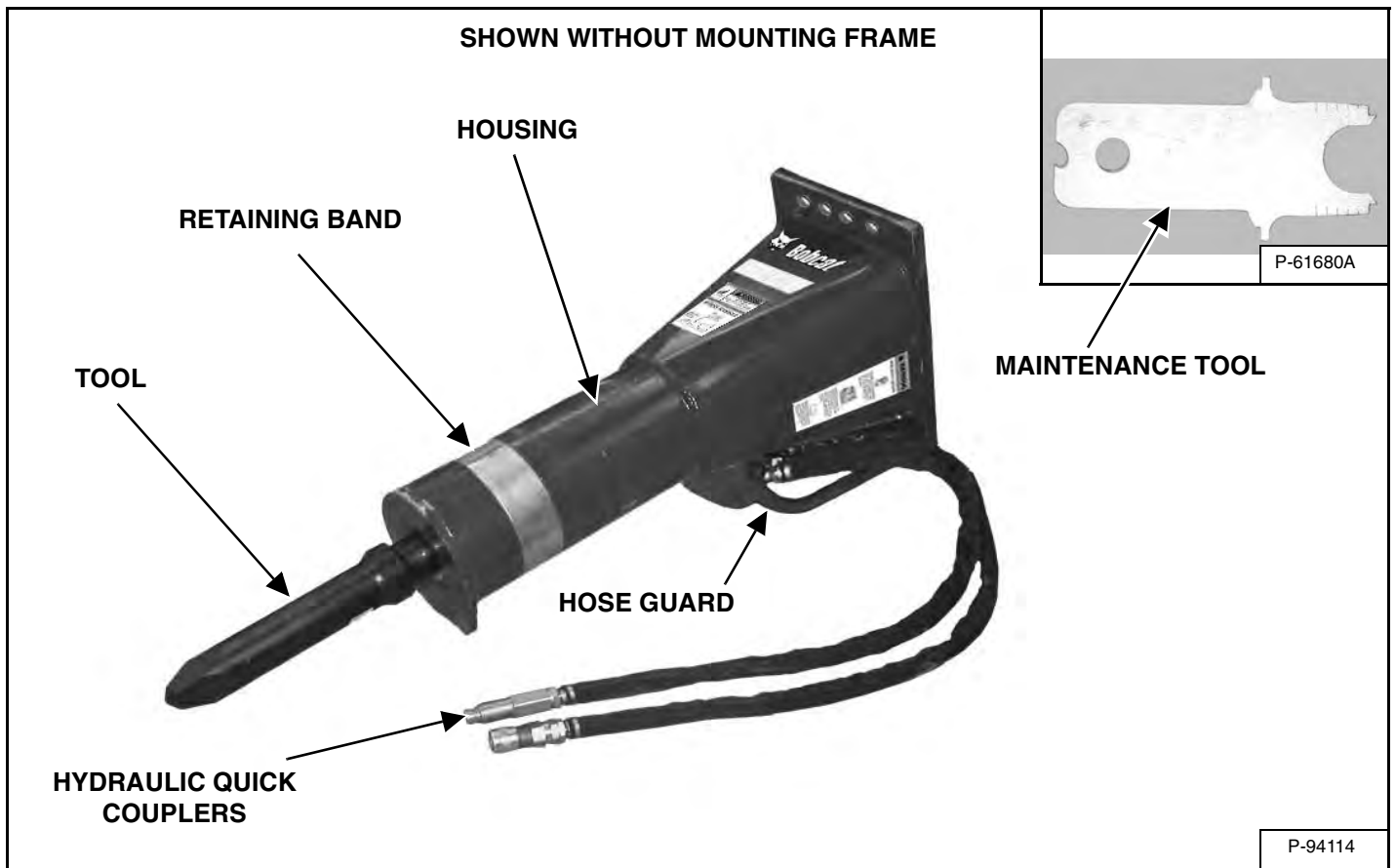
**DELIVERY REPORT**

**Figure 5**

The diagram shows a form layout for a delivery report. It includes a header section, a warning section, and a main body of text. A reference code 'B-16315' is located at the bottom right of the form area.

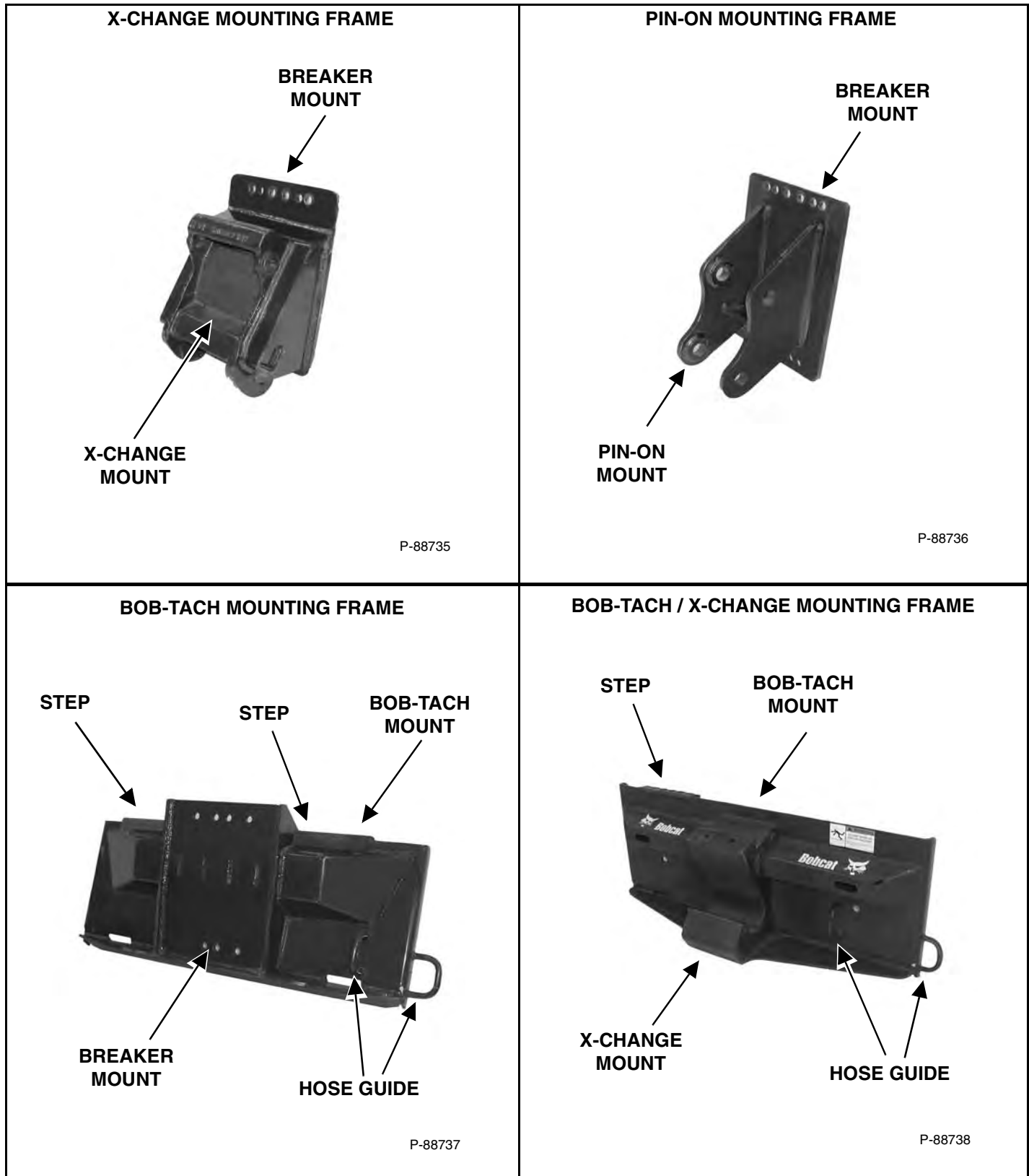
The delivery report must be filled out by the dealer and signed by the owner or operator when the Bobcat hydraulic breaker is delivered. An explanation of the form must be given to the owner. Make sure it is filled out completely **[Figure 5]**.

**ATTACHMENT IDENTIFICATION**



**ATTACHMENT IDENTIFICATION (CONT'D)**

**Mounting Frame Configurations**



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## TROUBLESHOOTING

### Chart



#### AVOID INJURY OR DEATH

Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

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If the breaker is not working correctly, check the hydraulic system of the machine thoroughly before making any repairs on the breaker. Breaker problems can be affected by a hydraulic system that is not operating to specifications or such problems as a plugged fuel filter or hydraulic filter in the machine. Connect a flow meter to the machine to check the hydraulic pump output, relief valve setting and tube lines to check flow and pressure. (See the machine's Service Manual for the correct procedure to connect the flow meter).

PROBLEM	CAUSE	CORRECTION
Breaker will not fire.	Machine fluid reservoir is low.	Add hydraulic fluid to the fluid reservoir.
	Hydraulic hoses connected to wrong ports.	Reverse hydraulic hoses.
	Damaged hydraulic couplers.	Replace hydraulic couplers.
	Machine main relief valve set too low.	Adjust main relief valve to correct setting.
	No hydraulic flow to the breaker.	Check the hydraulic flow to the breaker.
	Machine hydraulic pump not working.	Check flow of hydraulic pump. Repair or replace as needed.
	Oil in the air chamber.	Damaged internal seals, replace seals (See Breaker Service Manual)
	Regulator ring damaged or installed backwards.	Replace regulator ring. (See Breaker Service Manual)
	Tool bushing is worn.	Replace bushing.
Breaker stops after three blows.	Regulator ring damaged.	Replace regulator ring. (See Breaker Service Manual)
Breaker runs very slowly or blow per minute reducing.	Machine main relief valve set too low.	Adjust main relief valve to correct setting.
	Not enough hydraulic flow.	Test hydraulics for correct flow and pressure.
	Excessive heat build up	Check oil cooler for debris and air flow Check relief valve pressure.
	Damaged hydraulic couplers.	Replace hydraulic couplers.
	Internal leakage	Check seals and O-rings in the breaker Check piston, sleeve and seal carrier for wear. (See the Breaker Service Manual)
	No breaking force and hoses jumping.	Check diaphragm for damage. (See the Breaker Service Manual)

Troubleshooting chart continued on next page.

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