

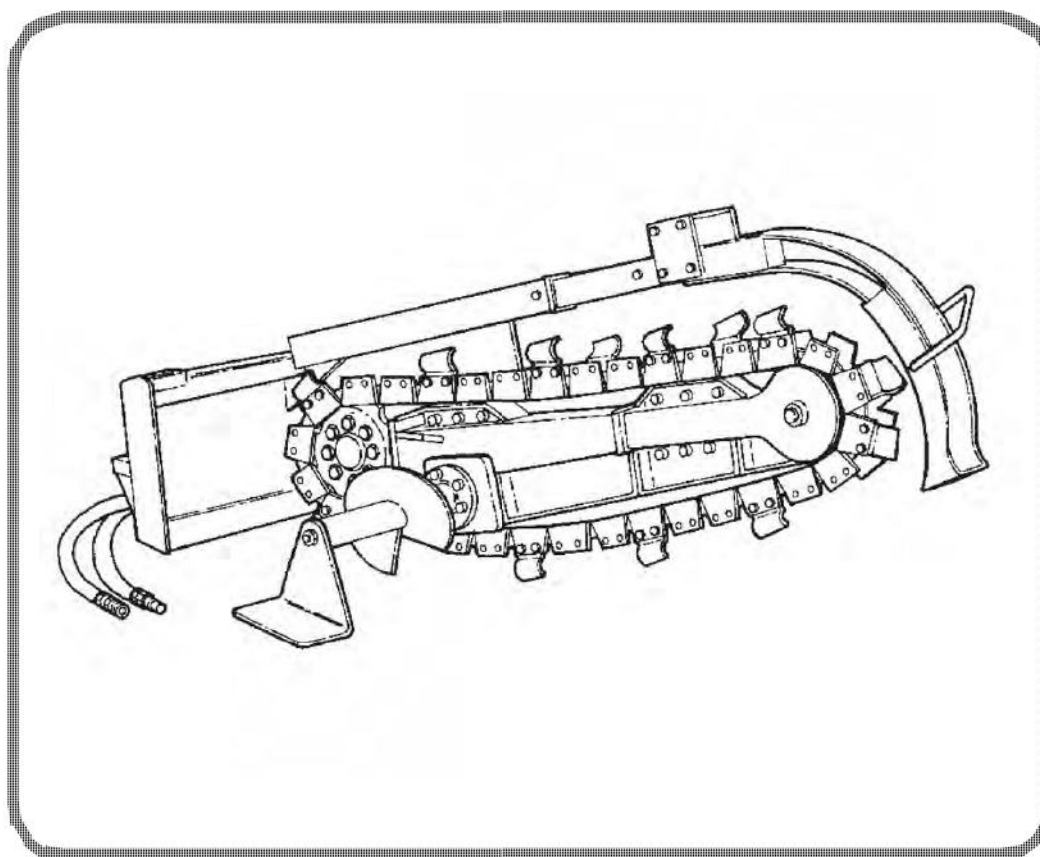


Bobcat®

Service Manual Trencher

(LT 102) S/N 233600101 & Above
(LT 102A) S/N 233700101 & Above
(MX 102) S/N 233900101 & Above
(LT 203) S/N 706200101 & Above
(LT 204) S/N 420400101 & Above

(LT 303) S/N 420500101 & Above
(LT 304) S/N 690900101 & Above
(LT 305) S/N 247100101 & Above
(LT 405) S/N 705100101 & Above
(LT 405) S/N 610000101 & Above



MAINTENANCE SAFETY



WARNING

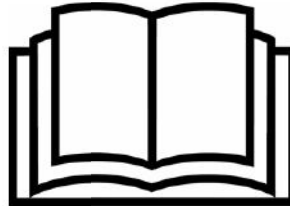
Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after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

CORRECT



P-90216

-  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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MSW30-0409

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SERIAL NUMBER LOCATION

Attachment Serial Number

Figure 1

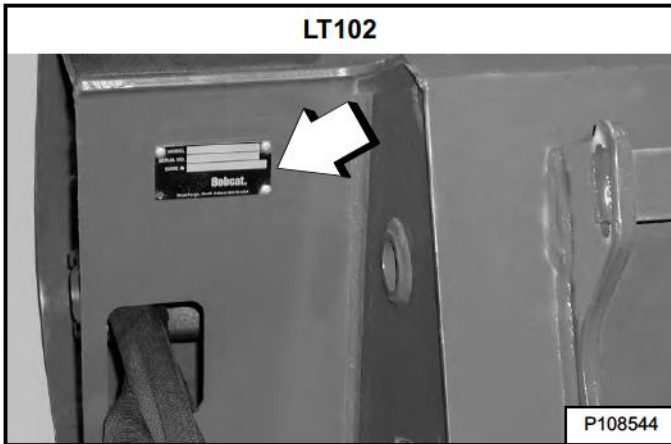


Figure 2

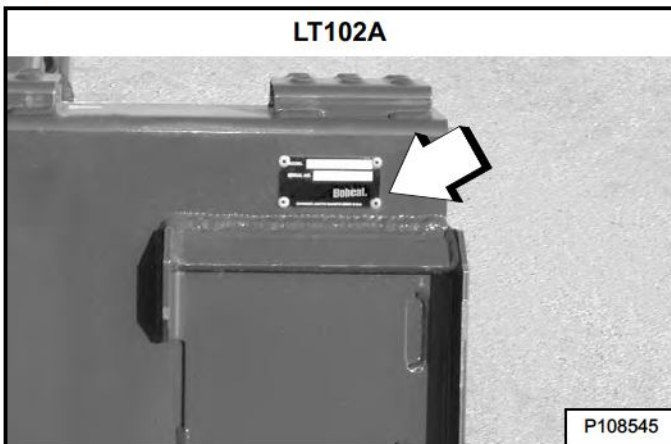


Figure 3

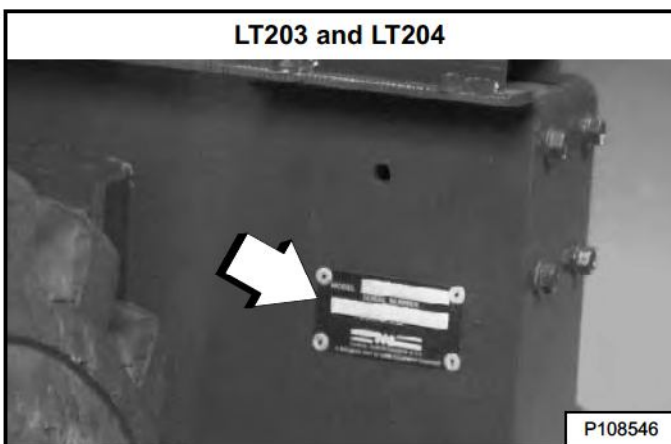


Figure 4

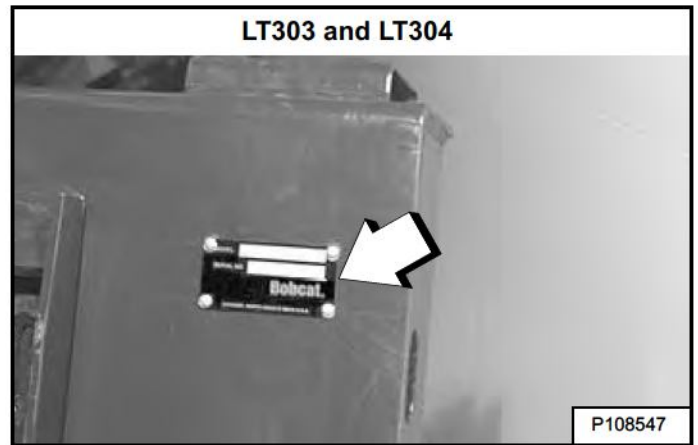


Figure 5

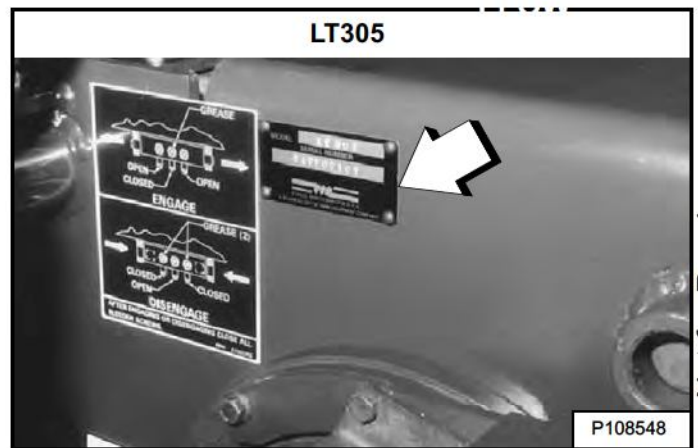
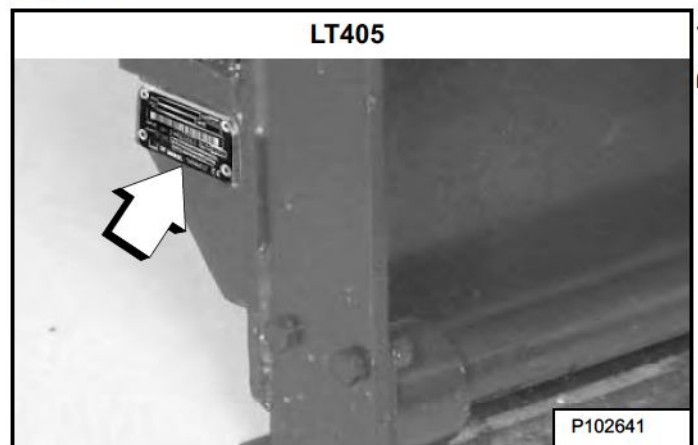


Figure 6

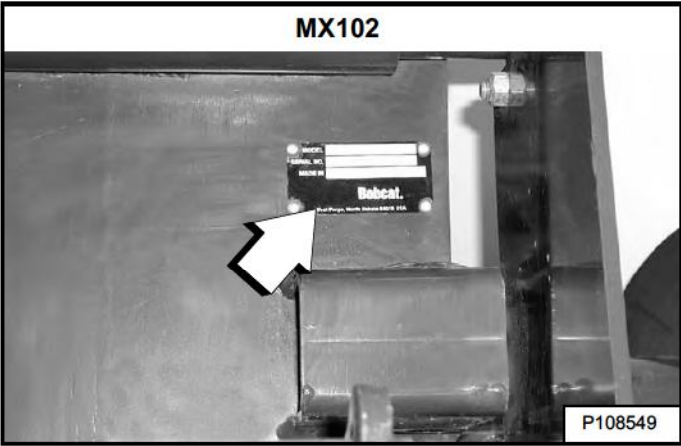


Always use the serial number of the trencher when requesting service information or when ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure in doing a specific service operation [Figure 1], [Figure 2], [Figure 3], [Figure 4], [Figure 5], and [Figure 6].

SERIAL NUMBER LOCATION (CONT'D)

Attachment Serial Number (Cont'd)

Figure 7



Always use the serial number of the trencher 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 7].

DELIVERY REPORT

Figure 8

Bobcat Delivery Report Attachments Dealer Name: _____ Dealer Number: _____

DELIVERY REPORT FORM

1. Machine Serial Number: _____ 2. Machine Model: _____ 3. Machine Year: _____ 4. Machine Color: _____ 5. Machine Weight: _____ 6. Machine Capacity: _____ 7. Machine Type: _____ 8. Machine Description: _____ 9. Machine Location: _____ 10. Machine Status: _____

11. Machine Condition: _____ 12. Machine Inspection: _____ 13. Machine Maintenance: _____ 14. Machine Training: _____ 15. Machine Safety: _____ 16. Machine Documentation: _____ 17. Machine Warranty: _____ 18. Machine Return: _____ 19. Machine Disposal: _____ 20. Machine Recycling: _____

WARNING

1. Read and understand the operator's manual before operating the machine. 2. Do not operate the machine if you are not trained and certified to do so. 3. Do not operate the machine if you are under the influence of alcohol or drugs. 4. Do not operate the machine if you are tired or distracted. 5. Do not operate the machine if you are not wearing your seat belt. 6. Do not operate the machine if you are not wearing your safety harness. 7. Do not operate the machine if you are not wearing your safety glasses. 8. Do not operate the machine if you are not wearing your safety shoes. 9. Do not operate the machine if you are not wearing your safety helmet. 10. Do not operate the machine if you are not wearing your safety vest. 11. Do not operate the machine if you are not wearing your safety gloves. 12. Do not operate the machine if you are not wearing your safety socks. 13. Do not operate the machine if you are not wearing your safety pants. 14. Do not operate the machine if you are not wearing your safety underwear. 15. Do not operate the machine if you are not wearing your safety pajamas. 16. Do not operate the machine if you are not wearing your safety nightgown. 17. Do not operate the machine if you are not wearing your safety robe. 18. Do not operate the machine if you are not wearing your safety slippers. 19. Do not operate the machine if you are not wearing your safety socks. 20. Do not operate the machine if you are not wearing your safety pants.

Dealer Representative Signature: _____ Date: _____

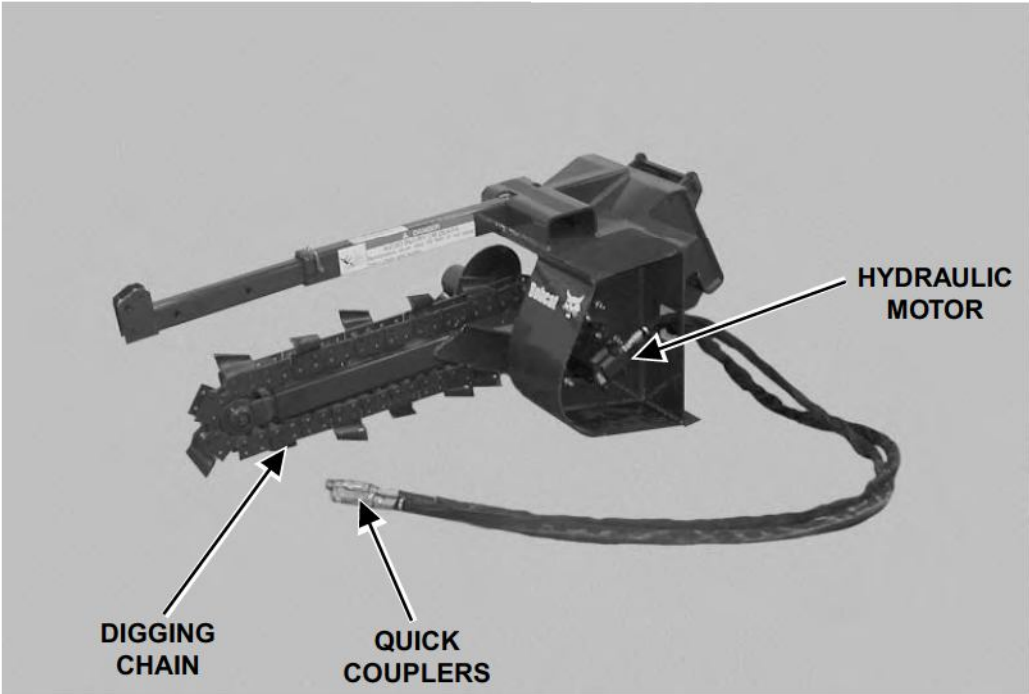
Owner/Operator Signature: _____ Date: _____

NA7494

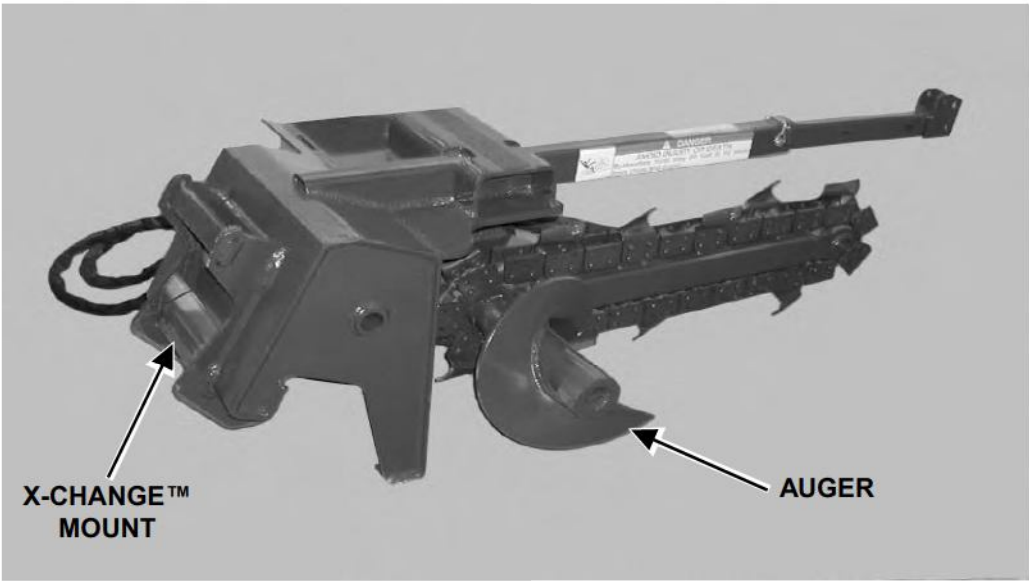
The delivery report [Figure 8] must be completed by the dealer and signed by the owner or operator when the trencher is delivered. An explanation of the form must be given to the owner.

ATTACHMENT IDENTIFICATION

LT102 Trencher



P-22776

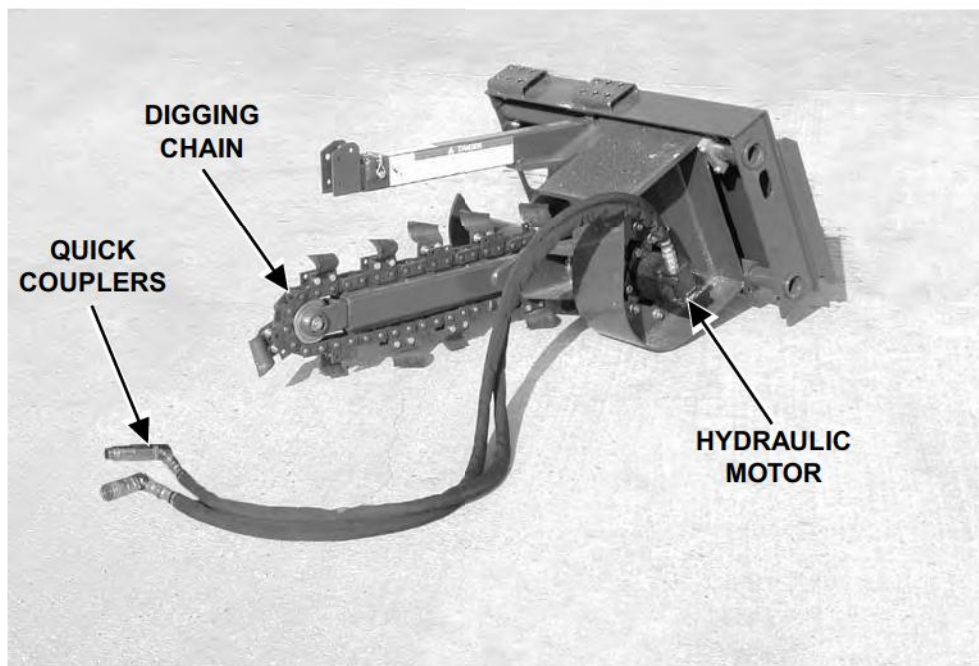


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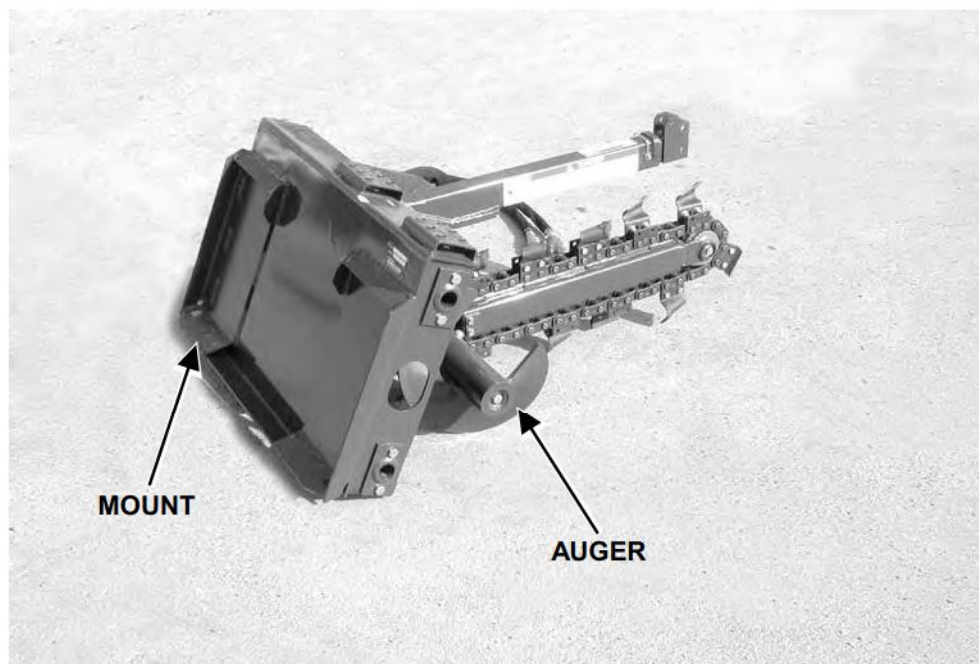
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ATTACHMENT IDENTIFICATION (CONT'D)

LT102A Trencher



P-27784

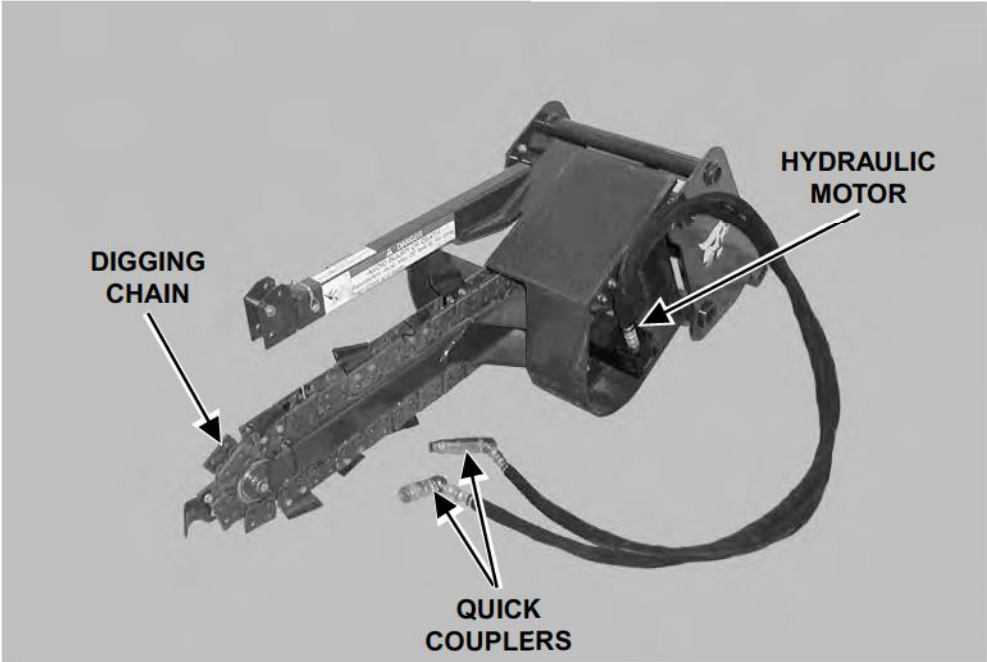


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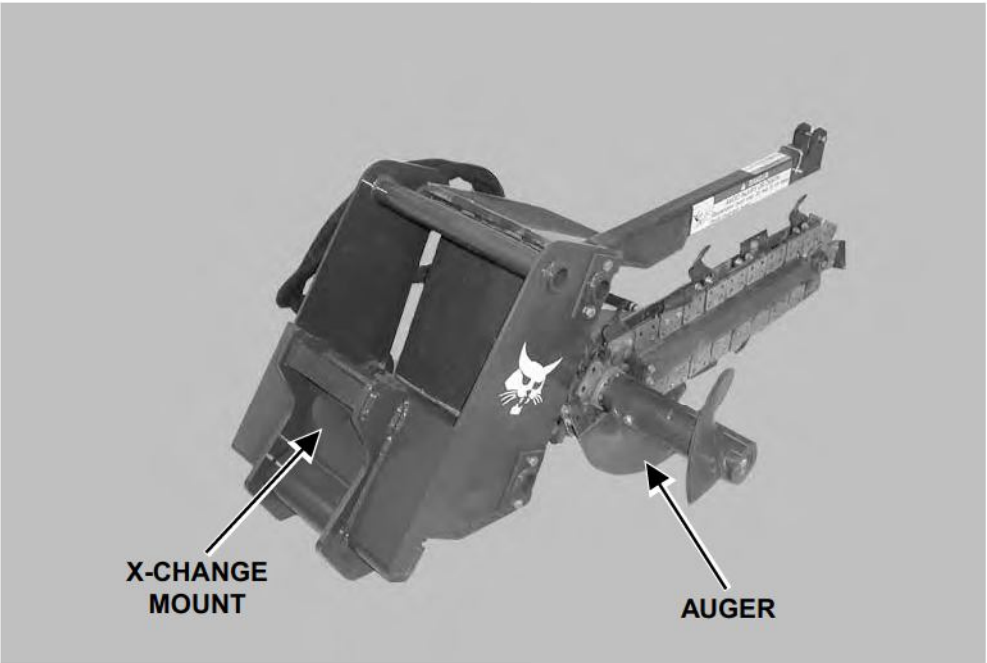
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ATTACHMENT IDENTIFICATION (CONT'D)

MX102 Trencher



P-27850

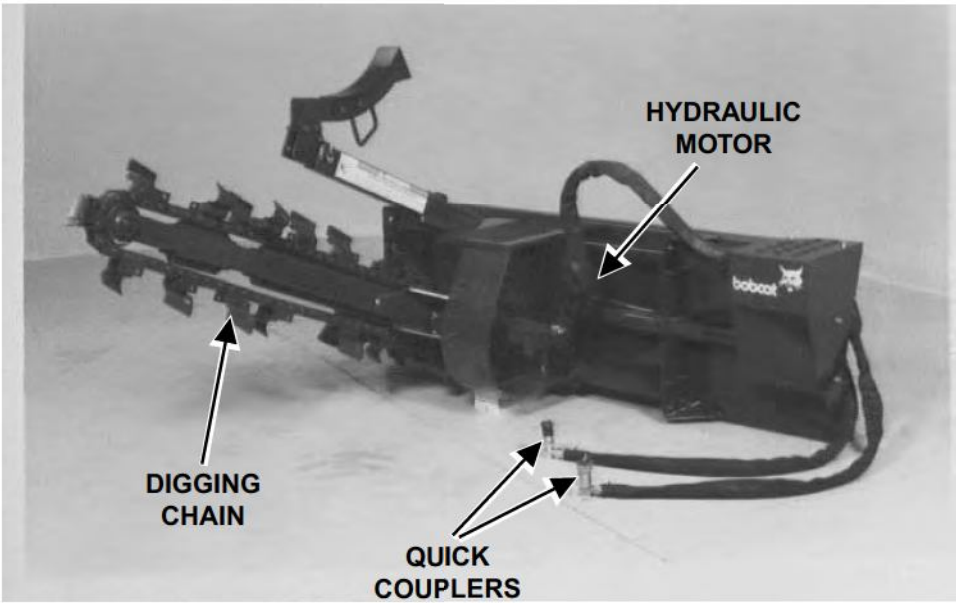


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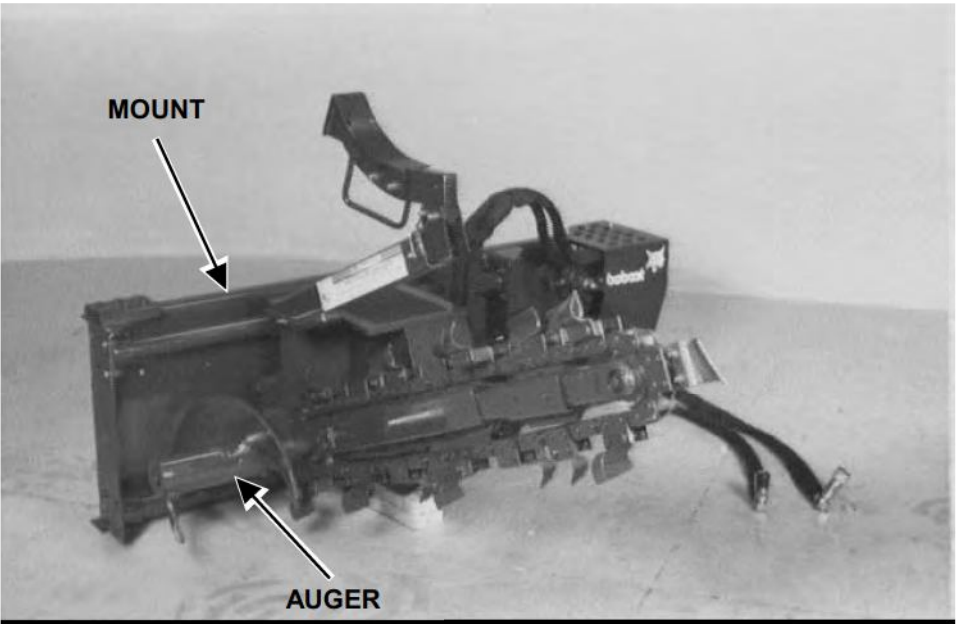
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ATTACHMENT IDENTIFICATION (CONT'D)

LT203 And LT204 Trencher



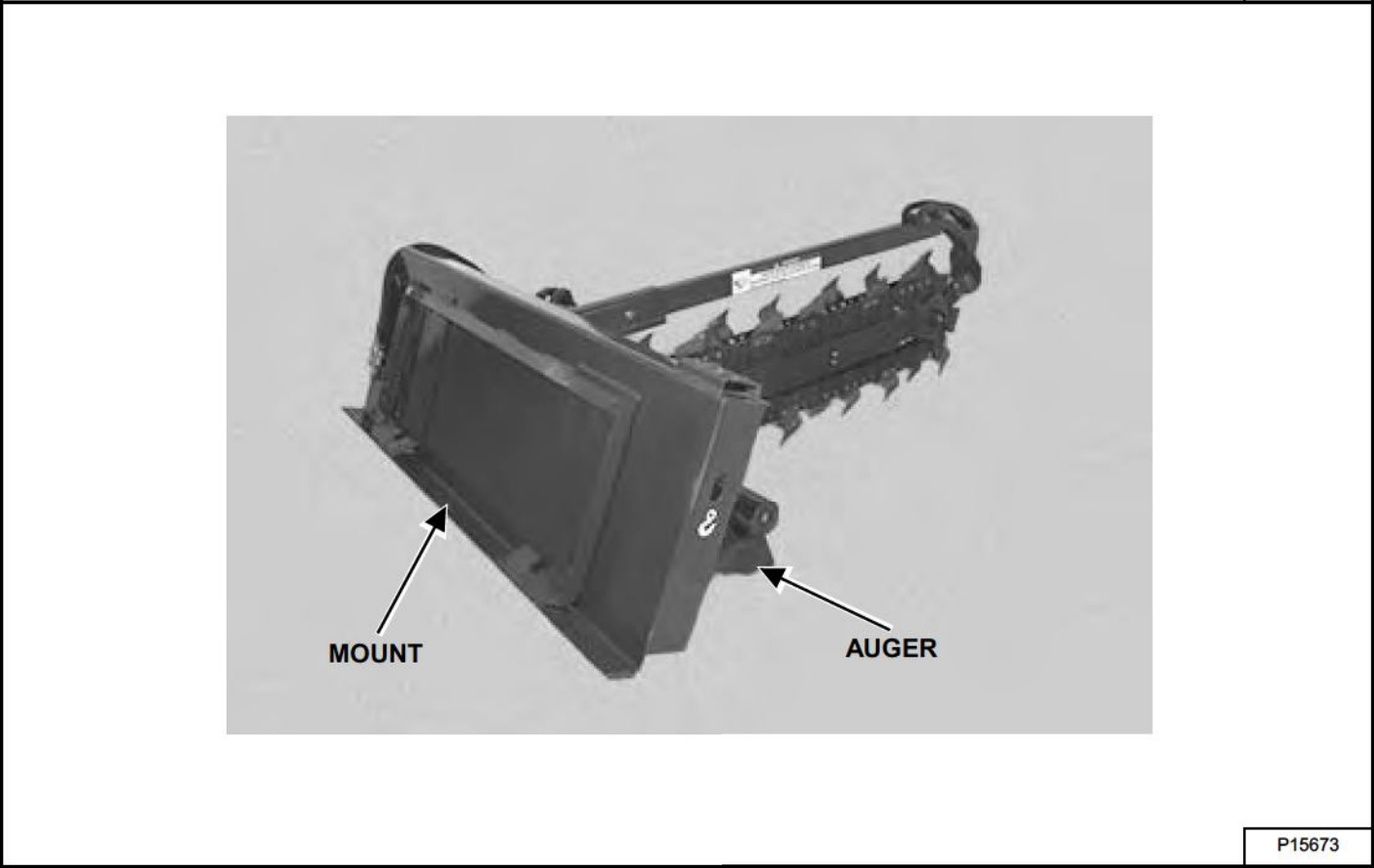
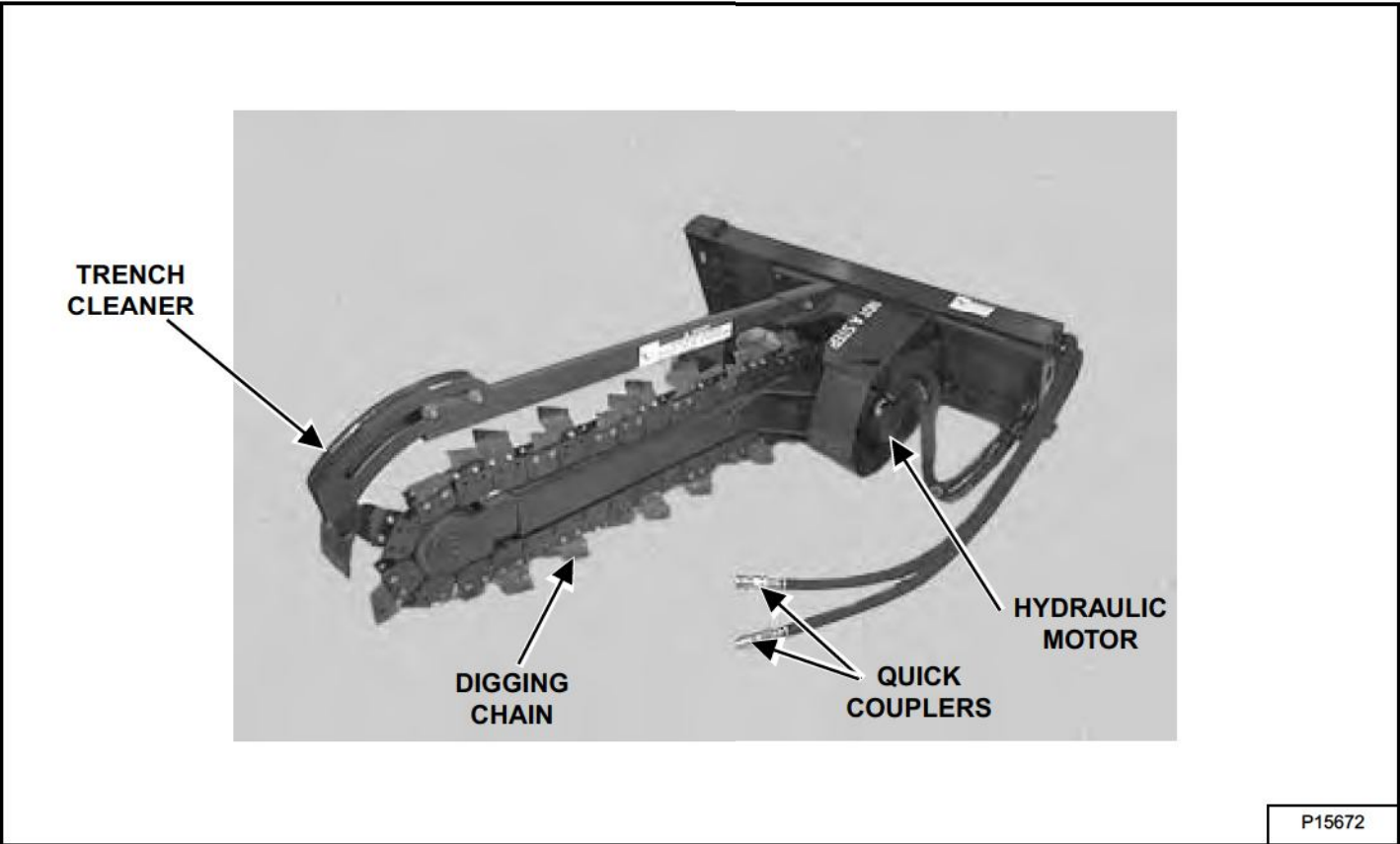
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LT303 And LT304 Trencher

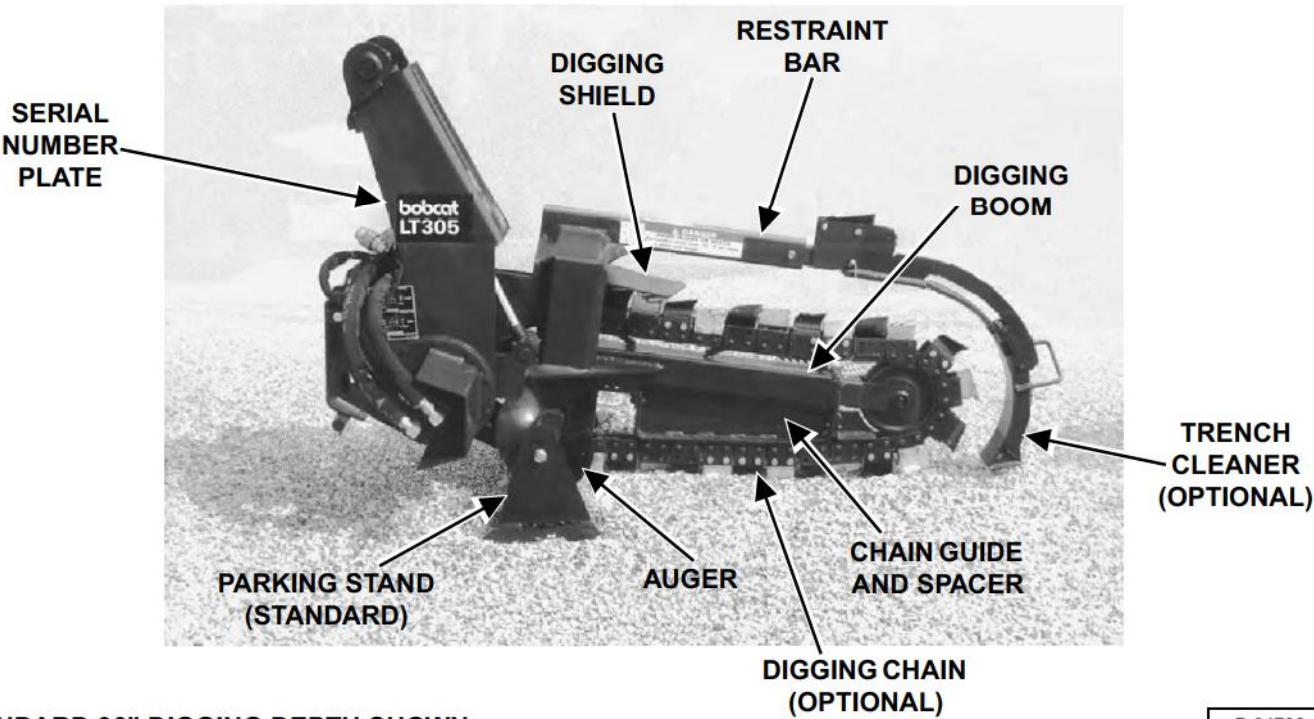


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ATTACHMENT IDENTIFICATION (CONT'D)

LT305 Trencher

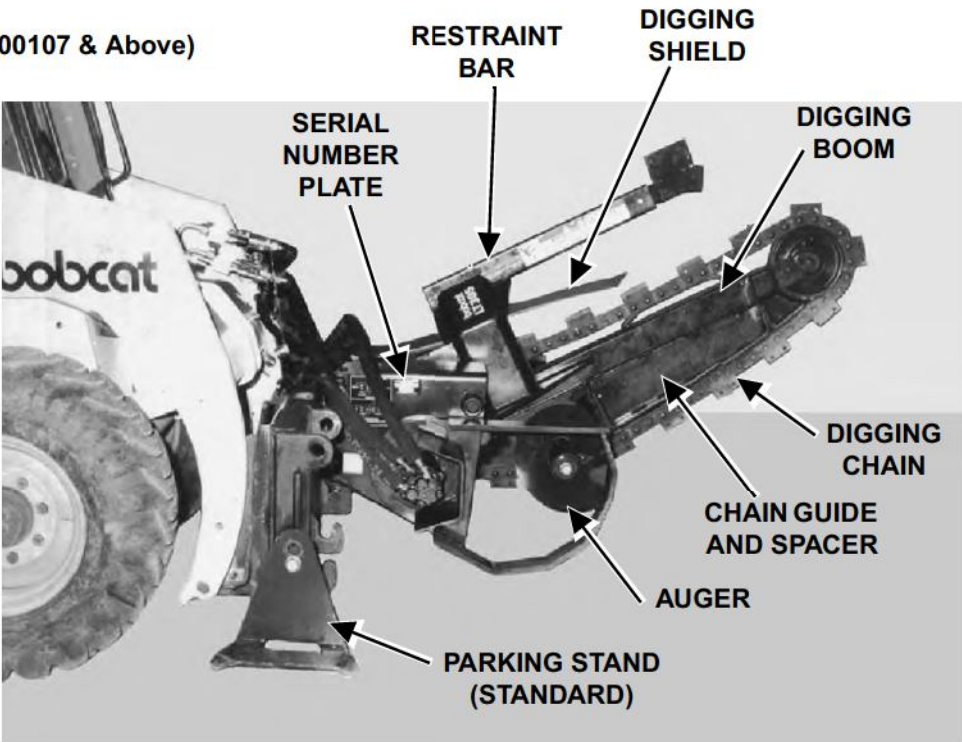
LT305 (S/N 247100101 - 247100106)



STANDARD 36" DIGGING DEPTH SHOWN

P-94732

LT305 (S/N 247100107 & Above)



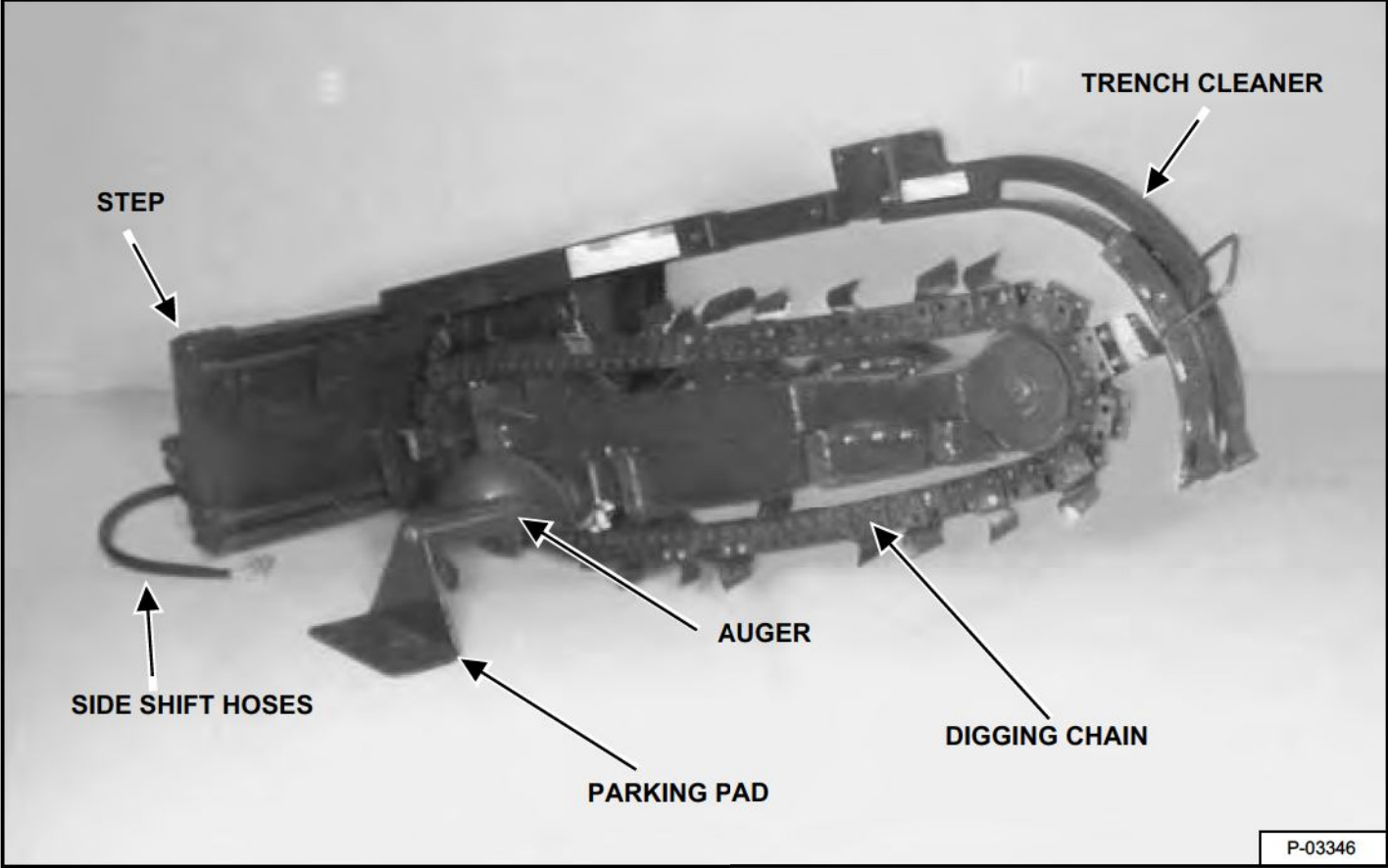
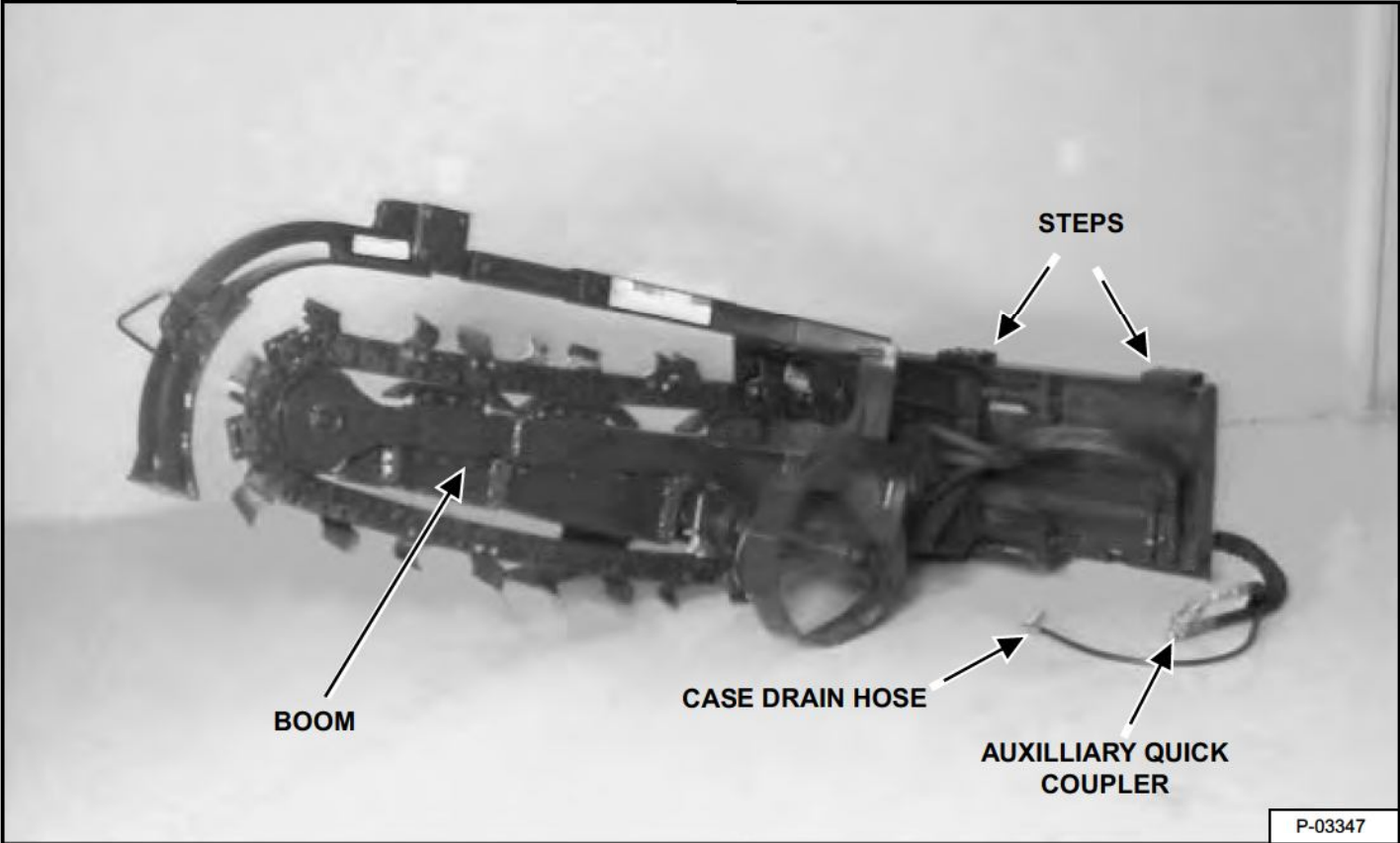
STANDARD 36" DIGGING DEPTH SHOWN

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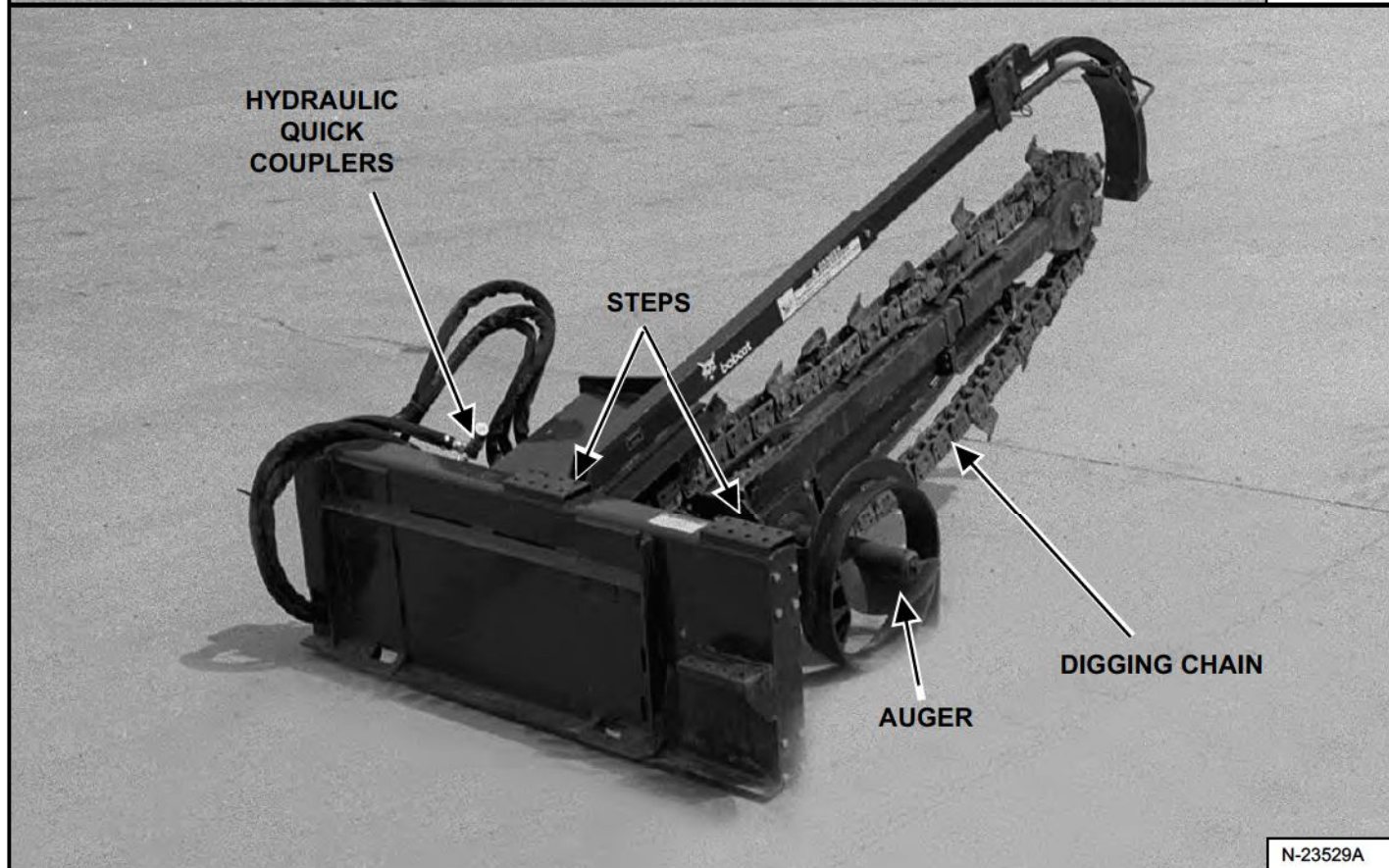
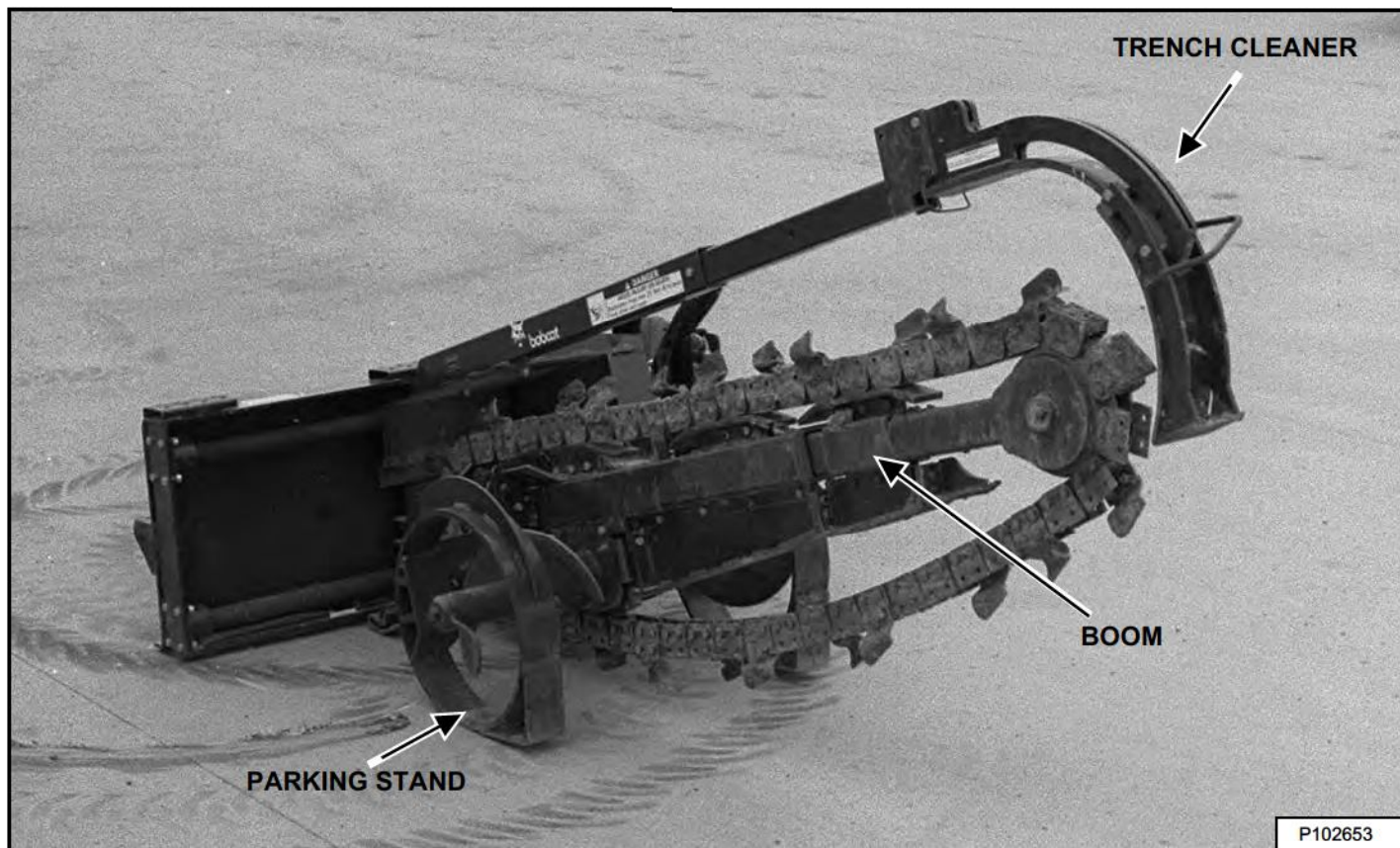
LT405 Trencher (S/N 705100101 & Above)



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ATTACHMENT IDENTIFICATION (CONT'D)

LT405 Trencher (S/N 610000101 & Above)



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SAFETY AND MAINTENANCE

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TROUBLESHOOTING

Chart



WARNING

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If the attachment is not working correctly, check the hydraulic system of the machine thoroughly before making any repairs on the attachment. Attachment problems can be affected by a hydraulic system that is not operating to specifications. 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.)

Use the following troubleshooting chart to locate and correct problems which most often occur with the attachment.

PROBLEM	CAUSE	CORRECTION
Trencher does not mount properly on the Bob-Tach.	Bob-Tach wedges are not fully retracted.	Retract Bob-Tach wedges.
	Mud, dirt or stones are lodged between the Bob-Tach and the trencher mount.	Remove debris from between Bob-Tach and trencher mount.
Trencher does not operate.	No hydraulic flow.	Activate front auxiliary hydraulics.
		Check quick couplers connections. Check for damaged hose ends and fittings.
Trencher does not lock properly on the trenching attachment adapter (LT305 only).	Loose, damaged or missing grease fittings on the attachment, grease cylinder.	Replace grease fittings.
Digging chain does not stay adjusted to correct tension.	Damaged grease cylinder.	Repair or replace grease cylinder.

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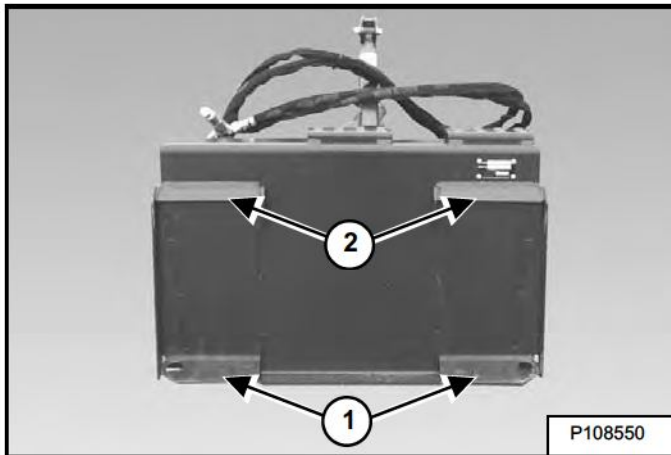
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DAILY INSPECTION

Attachment Mounting Frame

Figure 10-20-1



Inspect the Bob-Tach™ wedge mounts (Item 1), mounting flange (Item 2) [Figure 10-20-1] and all welds on the trencher for wear and damage each time the trencher is removed from the machine.

Frequently inspect the trencher to ensure that all components are secure and that all bolts and nuts are thoroughly tightened.

Bob-Tach

Hand Lever Bob-Tach

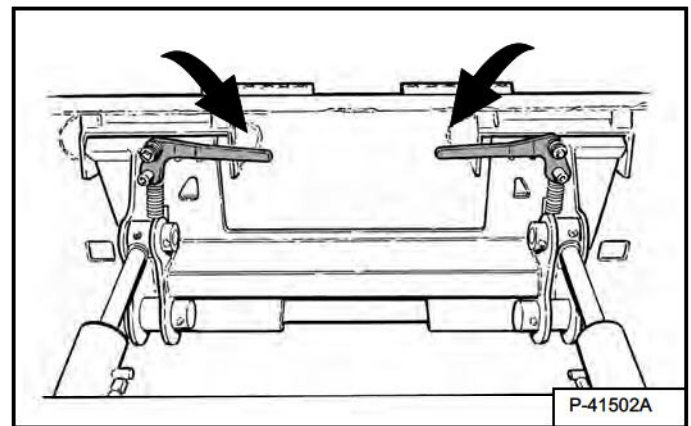


AVOID INJURY OR DEATH

The Bob-Tach wedges must extend through the holes in the attachment mounting frame. Levers must be fully down and locked. Failure to secure wedges can allow attachment to come off.

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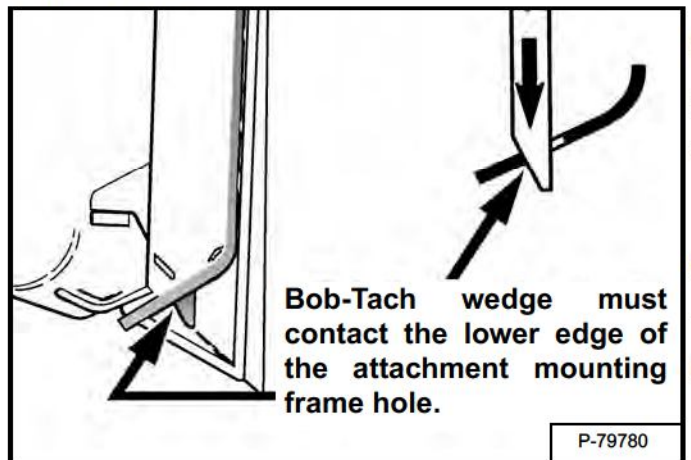
Figure 10-20-2



Push down on the Bob-Tach levers until they are fully engaged in the locked position [Figure 10-20-2] (wedges fully extended through the attachment mounting frame holes).

The levers and wedges must move freely [Figure 10-20-2].

Figure 10-20-3



The wedges must extend through the holes in the attachment mounting frame, securely fastening the attachment to the Bob-Tach [Figure 10-20-3].

NOTE: If the wedge does not contact the lower edge of the hole, the attachment will be loose and can come off the Bob-Tach.

Inspect the mounting frame on the attachment. (See the machine's Operation & Maintenance Manual for inspecting the Bob-Tach). Replace any parts that are damaged, bent or missing. Keep all fasteners tight. Look for cracked welds. Contact your Bobcat dealer for repair or replacement parts.

Lubricate the wedges. (See the machine's Operation & Maintenance Manual for the correct procedure.)

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