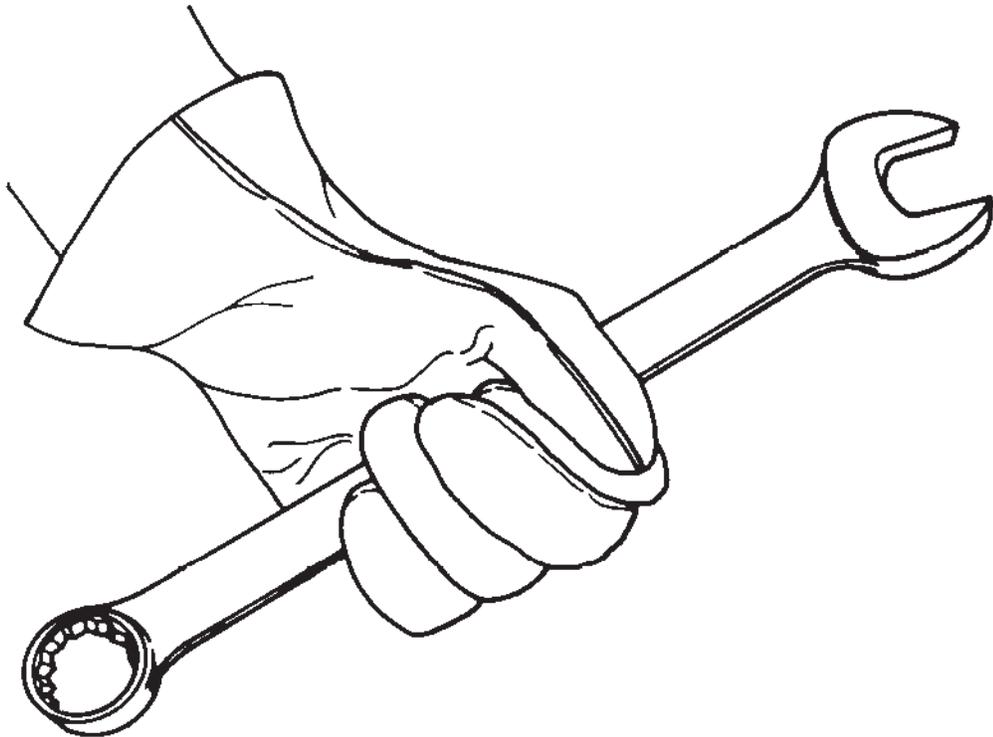




BACKHOE

SERVICE MANUAL



Product: Bobcat BACKHOE Service Repair Workshop Manual
Full Download: <https://www.arepairmanual.com/downloads/bobcat-backhoe-service-repair-workshop-manual/>

Sample of manual. Download All 176 pages at:
<https://www.arepairmanual.com/downloads/bobcat-backhoe-service-repair-workshop-manual/>

MAINTENANCE SAFETY



WARNING

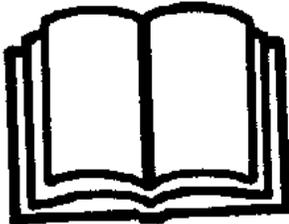
Instructions are necessary before operating or servicing machine. Read and understand the Operation & Maintenance Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or servicing. Check for correct function after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

W-2003-0903



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

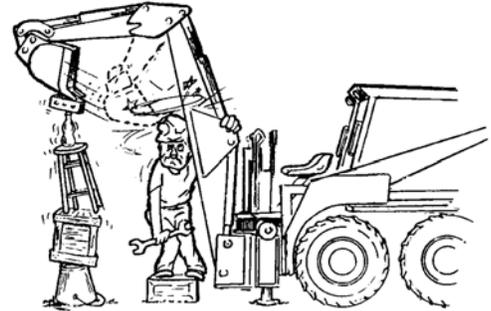
CORRECT



B-10731a

-  Never service the Bobcat Loader or Backhoe without instructions. See Operation & Maintenance and Service Manual.
-  Check engine and hydraulic fluids daily.
-  Cleaning and maintenance are required daily.
-  Never service or adjust loader/backhoe with the engine running unless instructed to do so in manual.

WRONG



B-05898

-  Always lower the backhoe attachment 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 or clothing away from moving parts, electrical contacts, hot parts and

-  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.



Bobcat®

	905B	923SA	923S	928S	907	908B	909	911	730S	725S	835S	607	709	811	8709	911B	911C	913	914	914B
440	X																			
450	X																			
453	X																			
543		X								X										
553																				
630			X		X	X				X		X								
645																				
643			X		X	X				X		X								
730							X		X				X							
743			X		X	X														
751																				
753			X		X		X		X			X								
753H																				
753L									X			X								
763									X			X								
7753													X							
773									X			X								
843								X			X									
853																				
853H								X			X		X							
863																				
873											X									
943																				
953																		X		
963																			X	
2400																X				X

NOTE: Refer to the sales handbook for Backhoe mounting kit part numbers and serial numbers.

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**MAIN
FRAME
SERVICE**

**HYDRAULIC
CONTROL VALVE**

**HYDRAULIC
CYLINDERS**

SPECIFICATIONS



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TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
*Loss of hydraulic action.	The auxiliary control on the loader is not engaged.	Engage the auxiliary control. (See the Loader Operation & Maintenance Manual).
	The male and female quick couplers on the backhoe hoses are not installed on the correct hoses.	Reverse the quick couplers on the hydraulic hoses of the backhoe.
	One coupler is not fully connected.	Connect the coupler.
	Fluid level in hydraulic system is low.	**Add fluid of the correct type.
Hydraulic action is not smooth.	Hydraulic fluid level is low.	**Add fluid of the correct type.
	Air in the hydraulic system.	Operate all the cylinders (except the swing cylinder) as far as possible both ways and hold the controls for several seconds after the cylinders reached the end of the stroke. May be a loader problem (see loader Service Manual).
No cushion in swing cylinder. (905B does not apply)	Air in the cylinder caused by a faulty swing cylinder.	Repair as needed. Remove air from the cylinder. Stroke cylinder in both directions.
Swing chain breaking (905 Only)	Not adjusted correctly.	Adjust the chain. See page 1–12.
	Operating the backhoe at too high throttle setting.	Operate at lower throttle setting.
	Boom swings too fast.	Install a 0.060 inch (1,5 mm) orifice. See the hydraulic flow chart for orifice location.
	Using the wrong type connector link.	Use only SP high strength links as replacement. Use genuine Melroe part only.
Mounting pins not extending or retracting correctly (Pin mounted backhoes only 911, 913, & 914).	Wire connector is loose.	Check connections and repair if necessary.
Mounting pins retract but do not extend (Pin mounted backhoe only 911, 913, & 914).	Solenoid valve sticking due to contamination.	Disassemble and flush valve and parts.
	Pin misaligned or interference.	Align the pins or remove interference.
	Lack of lubrication.	Lubricate as needed.
Side shift backhoes will not side shift.	Solenoid not releasing the hydraulic activated lock.	Repair or replace solenoid as needed.
	Binding.	Clean or remove obstructions.
	Lack of lubrication.	Lubricate as needed.

* The loader hydraulic system must be working properly for the attachments to operate as designed.

** Bobcat Fluid (P/N 6563328). If fluid is not available, use 10W–30/10W–40 Class SE Motor Oil for temperature above 0° F (–18° C), 5W–30 Motor Oil for temperatures below 0° F (–18° C).

LUBRICATION



WARNING

Instructions are necessary before operating or servicing machine. Read Operation & Maintenance Manual, 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. Failure to follow instructions can cause injury or death [A].

W-2003-0797



WARNING

AVOID INJURY OR DEATH

Always lower the Backhoe attachment to the ground before lubricating or servicing [A].

W-2178-0295

Use only a high grade, multi-purpose, lithium base lubricating grease. Add grease to the fittings until the extra grease shows.

905B Backhoe

Lubricate the backhoe every 8 hours of operation [B]:

Item Description (# of Fittings)

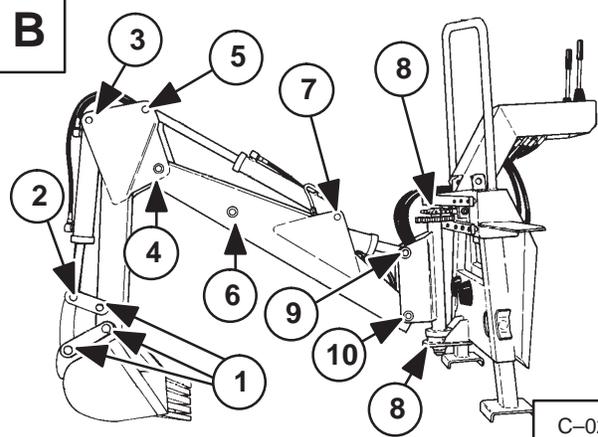
1. Bucket Bushing & Pins (3)
2. Bucket Cylinder Rod End (1)
3. Bucket Cylinder Base End (1)
4. Arm Pivot Bushing (1)
5. Arm Cylinder Rod End (1)
6. Boom Cylinder Base End (1)
7. Arm Cylinder Base End (1)
8. Swing Post Bushings (2)
9. Boom Cylinder Rod End (1)
10. Boom Pivot Bushing (1)

A



B-07023

B



C-02258

LUBRICATION (Cont'd)



WARNING

AVOID INJURY OR DEATH

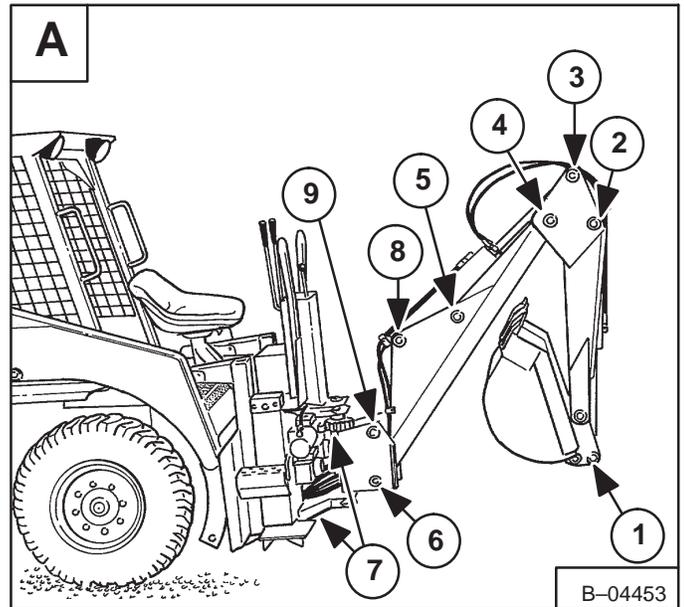
Always lower the Backhoe attachment to the ground before lubricating or servicing [A].

W-2178-0295

Use only a high grade, multi-purpose, lithium base lubricating grease. Add grease to the fittings until the extra grease shows.

907 Backhoe

Lubricate the backhoe every 8 hours of operation [A].

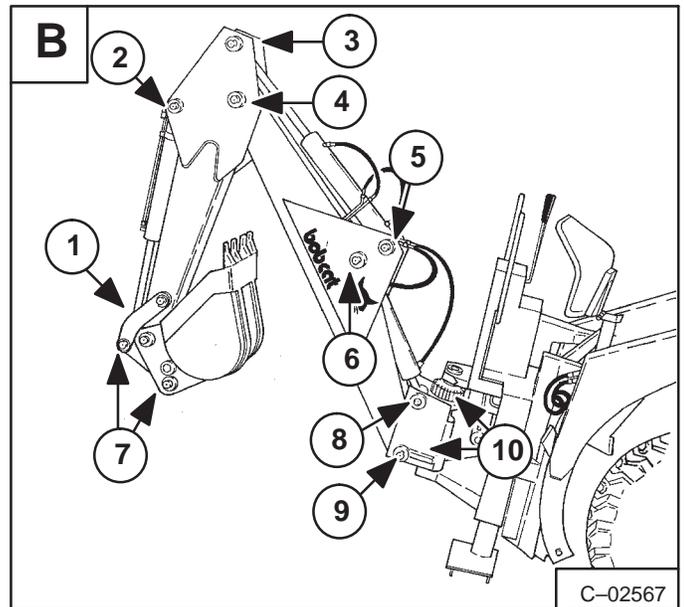


Item Description (# of Fittings)

1. Bucket Cylinder Rod End (1)
2. Bucket Cylinder Base End (1)
3. Arm Cylinder Rod End (1)
4. Arm Pivot Bushing (1)
5. Boom Cylinder Base End (1)
6. Boom Pivot Busing (1)
7. Swing Post Bushings (2)
8. Arm Cylinder Base End (1)
9. Boom Cylinder Rod End (1)

909 Backhoe

Lubricate the backhoe every 8 hours of operation [B].

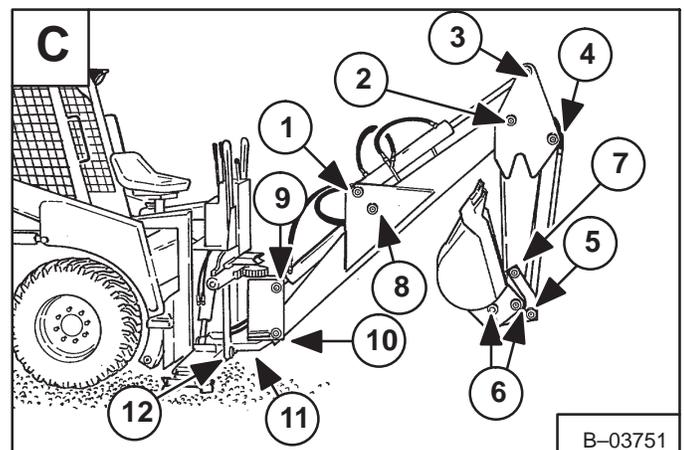


Item Description (# of Fittings)

1. Bucket Cylinder Rod End (1)
2. Bucket Cylinder Base End (1)
3. Arm Cylinder Rod End (1)
4. Arm Pivot Bushing (1)
5. Arm Cylinder Base End (1)
6. Boom Cylinder Base End (1)
7. Bucket Bushings & Pins (4)
8. Boom Cylinder Rod End (1)
9. Boom Pivot Bushing (1)
10. Swing Post Bushing (2)

911 Backhoe

Lubricate the backhoe every 8 hours of operation [C].



Item Description (# of Fittings)

1. Arm Cylinder Base End (1)
2. Arm Pivot Bushing (1)
3. Arm Cylinder Rod End (1)
4. Bucket Cylinder Base End (1)
5. Bucket Cylinder Rod End (1)
6. Bucket Bushings & Pins (4)
7. Link Bushing (1)
8. Boom Cylinder Base End (1)
9. Boom Cylinder Rod End (1)
10. Boom Pivot Bushing (1)
11. Swing Post Bushings (2)
12. Stabilizer Pivot Bushings (1 each side)

LUBRICATION (Cont'd)

! WARNING

AVOID INJURY OR DEATH

Always lower the Backhoe attachment to the ground before lubricating or servicing [A].

W-2178-0295

Use only a high grade, multi-purpose, lithium base lubricating grease. Add grease to the fittings until the extra grease shows.

913 & 914 Backhoe

Lubricate the backhoe every 8 hours of operation [A].

Item Description (# of Fittings)

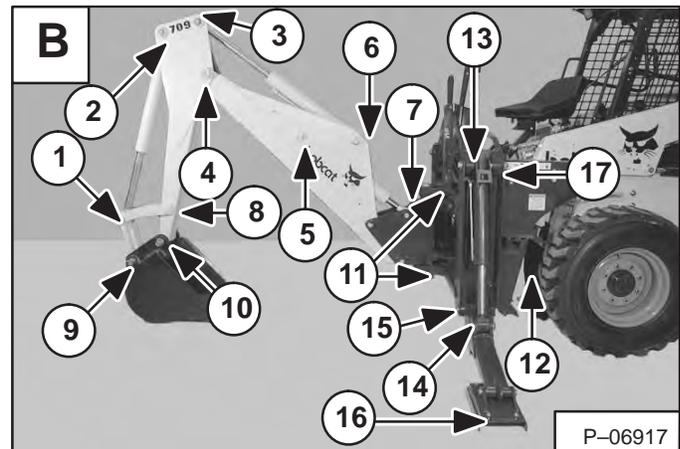
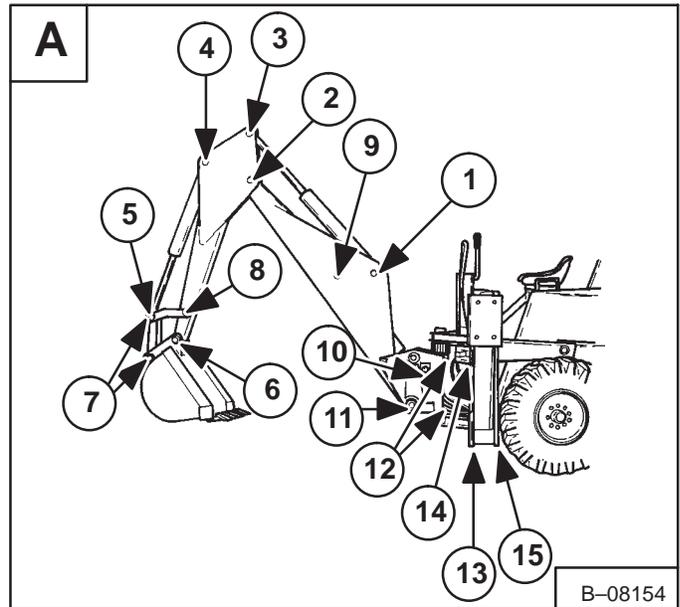
1. Arm Cylinder Base End (1)
2. Arm Pivot Busing (1)
3. Arm Cylinder Rod End (1)
4. Bucket Cylinder Base End (1)
5. Bucket Cylinder Rod End (1)
6. Bucket Pivot Busing (1)
7. Bucket Link Busing (4)
8. Arm Link Bushings (1)
9. Boom Cylinder Base End (1)
10. Boom Cylinder Rod End (1)
11. Boom Pivot Bushings (1)
12. Swing Post Bushings (2)
13. Stabilizer Pivot Bushing (1 each side)
14. Stabilizer Cylinder Base End (1 each side)
15. Stabilizer Cylinder Rod End (1 each side)

709FDS & 8709 Backhoe

Outrigger Stabilizer Backhoe [B].

Item Description (# of Fittings)

1. Bucket Cylinder Rod End (3)
2. Bucket Cylinder Base End (1)
3. Arm Cylinder Rod End (1)
4. Arm Pivot Bushing (1)
5. Boom Cylinder Base End (1)
6. Arm Cylinder Base End (1)
7. Boom Cylinder Rod End (1)
8. Arm Link Pivot (1)
9. Bucket Link Pivot (1)
10. Arm/Bucket Pivot (1)
11. Swing Cylinders Pivot Bushings (2)
12. Bob-Tach Wedges (2)
13. Stabilizer Base End (2)
14. Stabilizer Rod End (2)
15. Stabilizer Pivot Point (2)
16. Stabilizer Pad Pivot Point (2)
17. Lock Lever Pivot Bushings (2)



LUBRICATION (Cont'd)

! WARNING

AVOID INJURY OR DEATH

Always lower the Backhoe attachment to the ground before lubricating or servicing [A].

W-2178-0295

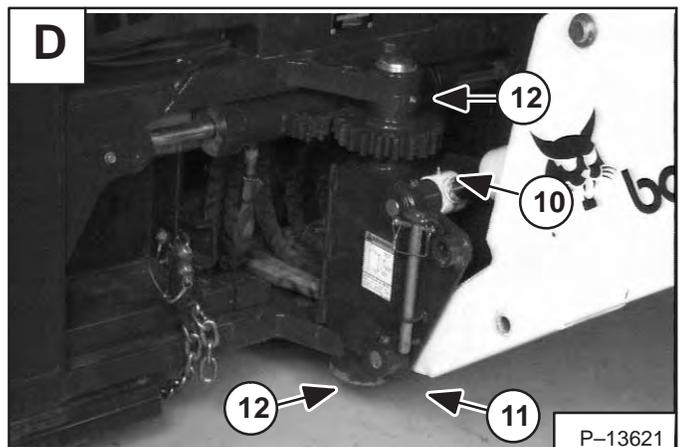
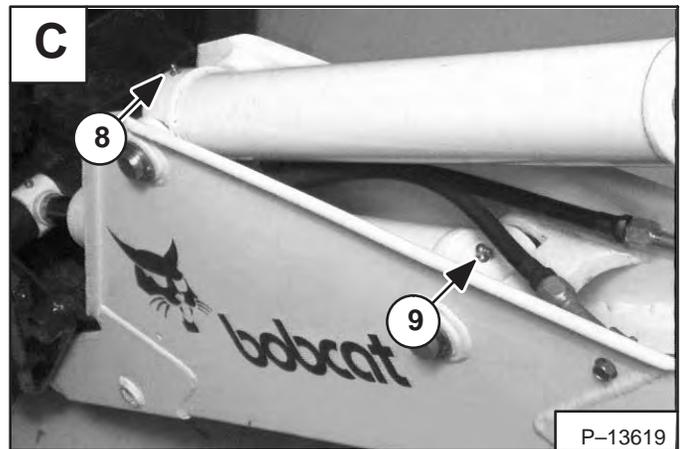
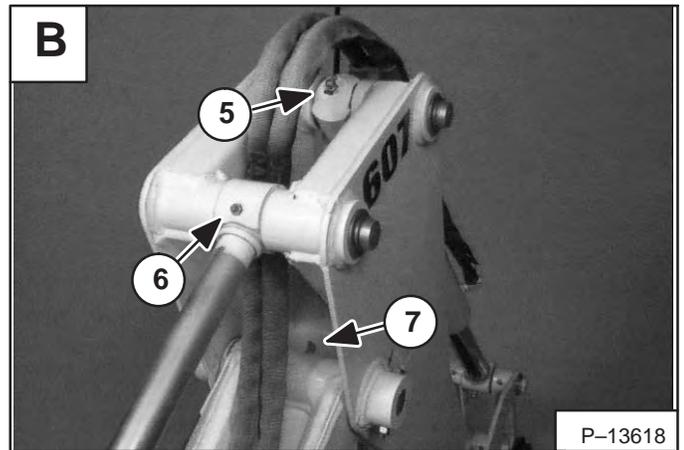
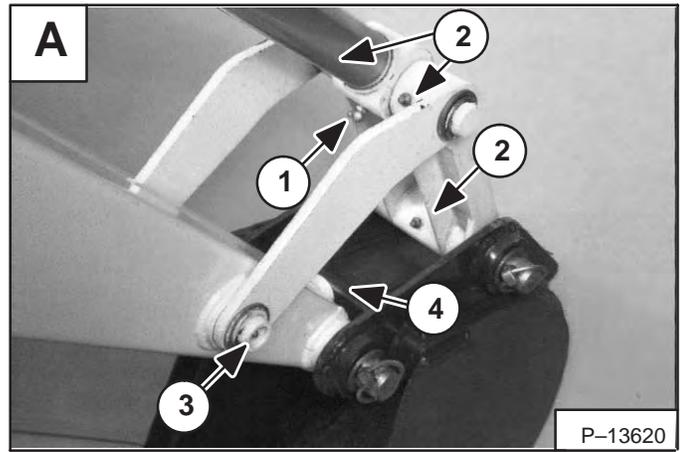
Use only a high grade, multi-purpose, lithium base lubricating grease. Add grease to the fittings until the extra grease shows.

607 & 709 Backhoe

Lubricate the backhoe every 8 hours of operation. (Fig. A, B, C, & D)

Item Description (# of Fittings)

- 1. Bucket Cylinder Rod End (1)
- 2. Link (3)
- 3. Bucket Cylinder Brace Pin (1)
- 4. Bucket Pivot Bushing (1)
- 5. Bucket Cylinder Base End (1)
- 6. Arm Cylinder Rod End (1)
- 7. Arm Pivot Bushing (1)
- 8. Arm Cylinder Base End (1)
- 9. Boom Cylinder Base End (1)
- 10. Boom Cylinder Rod End (1)
- 11. Boom Pivot Bushing (1)
- 12. Swing Frame Pivot Bushings (2)



LUBRICATION (Cont'd)



WARNING

AVOID INJURY OR DEATH

Always lower the Backhoe attachment to the ground before lubricating or servicing [A].

W-2178-0295

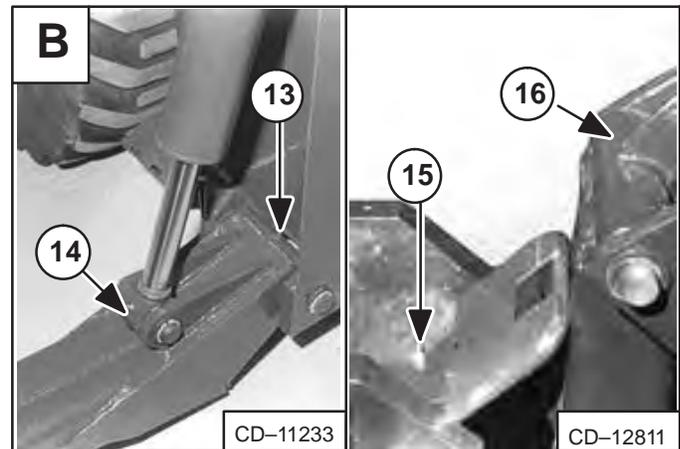
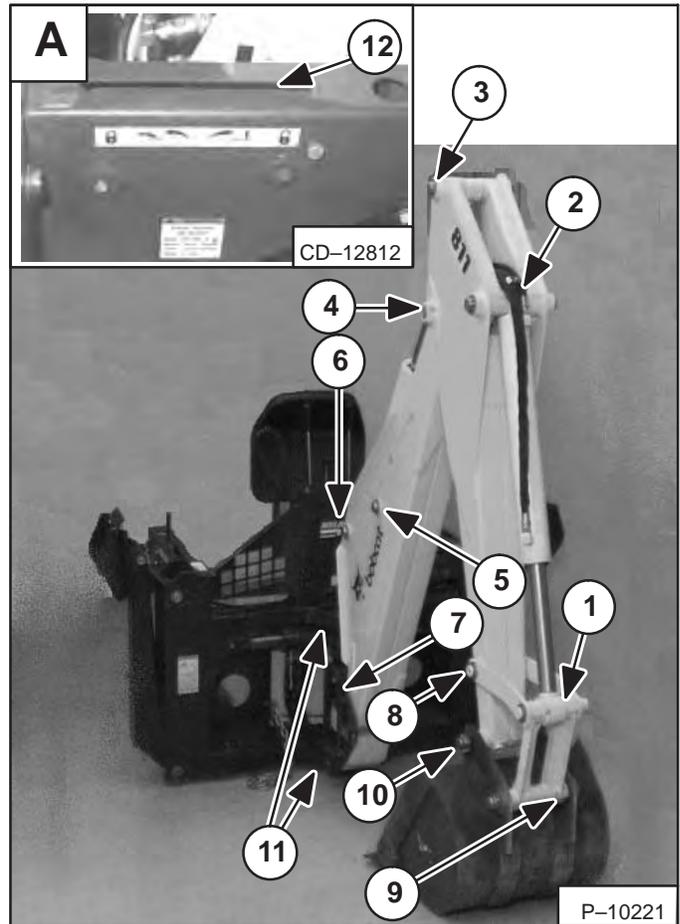
Use only a high grade, multi-purpose, lithium base lubricating grease. Add grease to the fittings until the extra grease shows.

811 Backhoe

Lubricate the backhoe every 8 hours of operation [A] & [B].

Item Description (# of Fittings)

1. Bucket Cylinder Rod End (3)
2. Bucket Cylinder Base End (1)
3. Arm Cylinder Rod End (1)
4. Arm Pivot Bushing (1)
5. Boom Cylinder Base End (1)
6. Arm Cylinder Base End (1)
7. Boom Cylinder Rod End (1)
8. Dipper Link Pivot (1)
9. Bucket Link Pivot (1)
10. Dipper Arm/Bucket Pivot (1)
11. Swing Frame Pivot Bushing (2)
12. Mounting Lever Pivot (2)
13. Stabilizer Pivot Bushing (2)
14. Stabilizer Cylinder Rod End (2)
15. Stabilizer Cylinder Base End (2)
16. Stabilizer Pad Bushing (2)



LUBRICATION (Cont'd)

725S & 730S Backhoe

! WARNING

AVOID INJURY OR DEATH

Always lower the Backhoe attachment to the ground before lubricating or servicing.

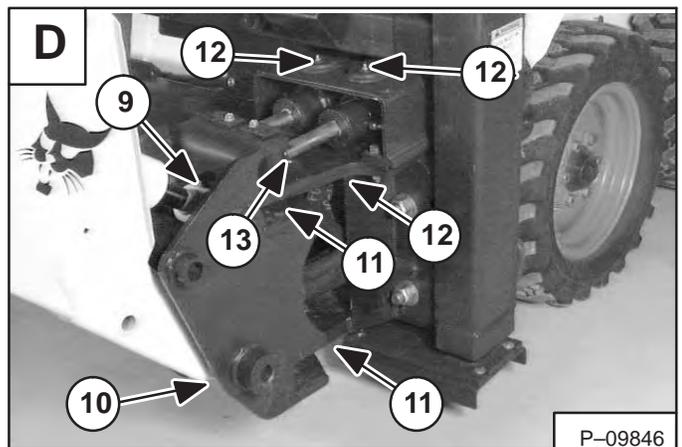
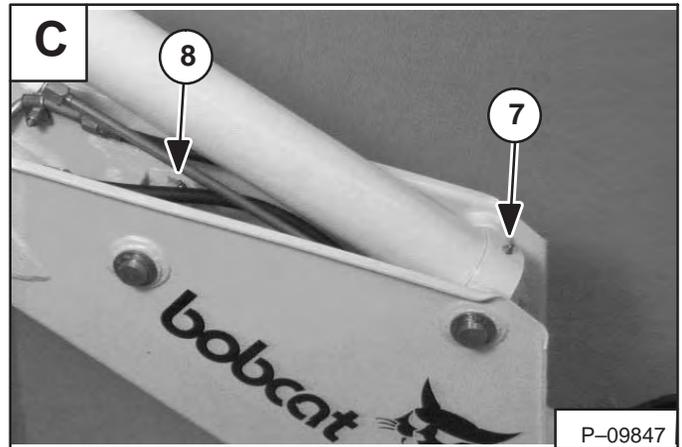
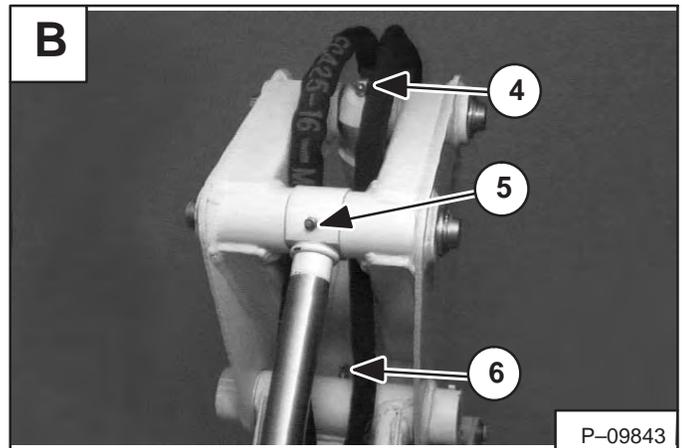
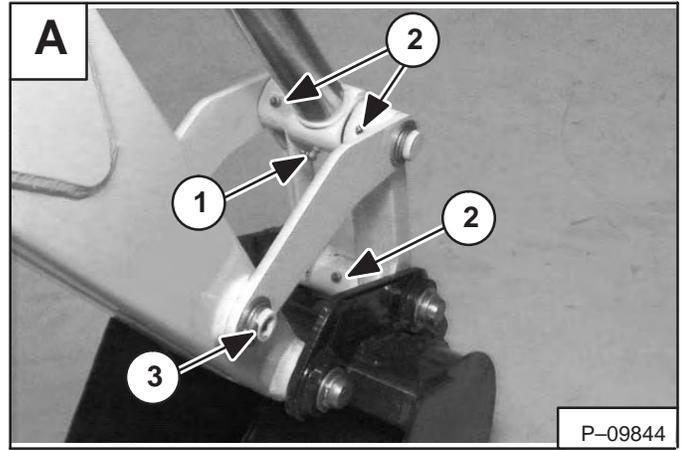
W-2178-0295

Use only a high grade, multi-purpose, lithium base lubricating grease. Add grease to the fittings until the extra grease shows.

Lubricate the backhoe every **8 HOURS** of operation. (Fig. A, B, C, & D)

Item Description (# of Fittings)

1. Bucket Cylinder Rod End (1)
2. Link (3)
3. Bucket Cylinder Brace Pin (1)
4. Bucket Cylinder Base End (1)
5. Arm Cylinder Rod End (1)
6. Arm Pivot Bushing (1)
7. Arm Cylinder Base End (1)
8. Boom Cylinder Base End (1)
9. Boom Cylinder Rod End (1)
10. Boom Pivot Bushing (1)
11. Swing Frame Pivot Bushings (2)
12. Swing Cylinders Pivot Bushings (4)
13. Swing Cylinders Rod End (2)



LUBRICATION (Cont'd)

835S Backhoe

⚠ WARNING

AVOID INJURY OR DEATH

Always lower the Backhoe attachment to the ground before lubricating or servicing [A].

W-2178-0295

Use only a high grade, multi-purpose, lithium base lubricating grease. Add grease to the fittings until the extra grease shows.

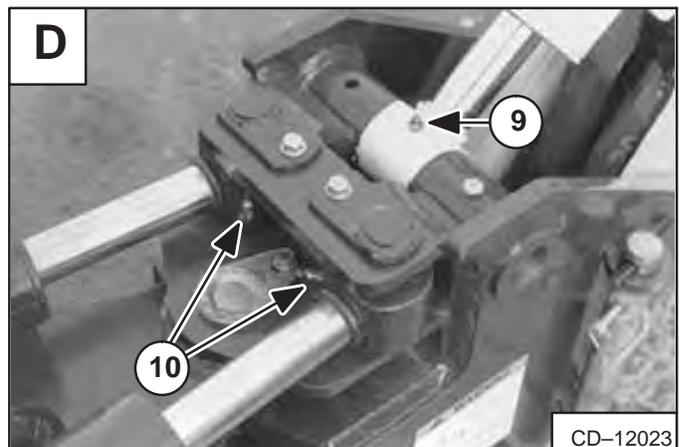
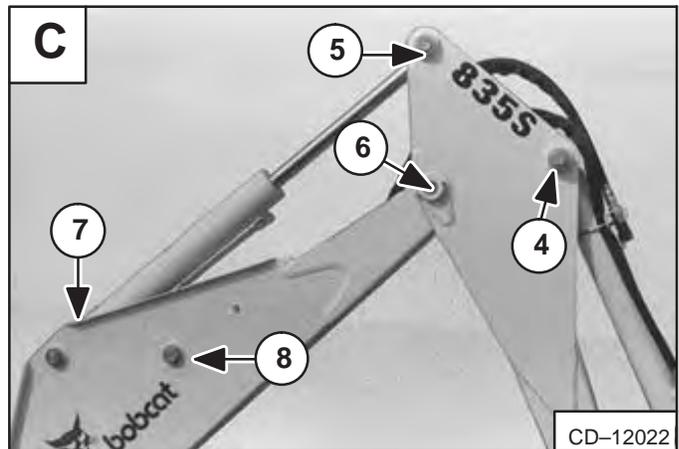
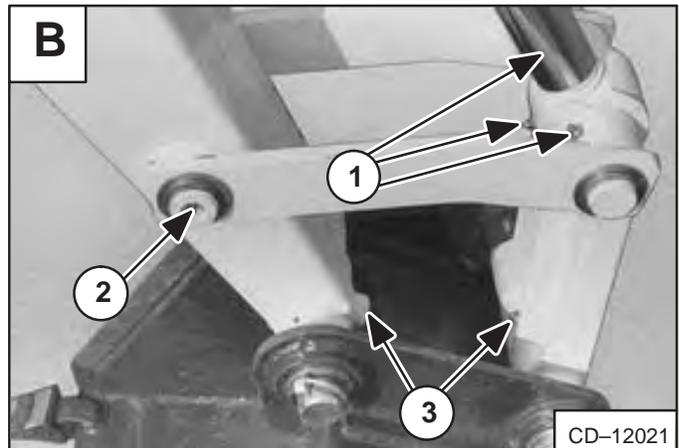
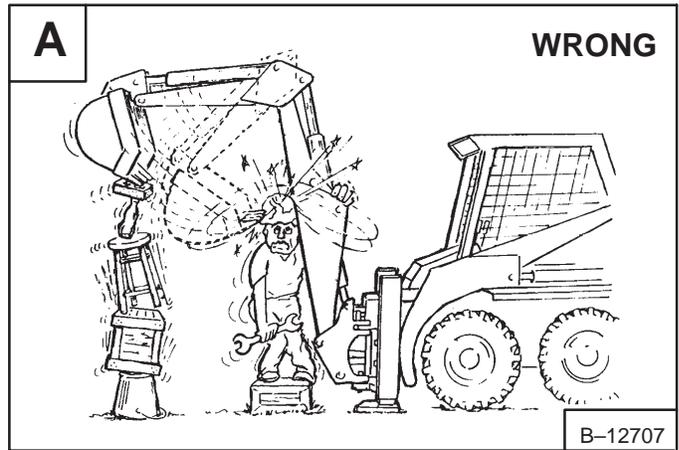
Lubricate the backhoe every **8 HOURS** of operation. (Fig. B, C, & D).

Item Description (# of Fittings)

1. Bucket Cylinder Rod End (3).
2. Link Pivot Pin (2).
3. Bucket Pivot Pins (2).

4. Bucket Cylinder Base End (1).
5. Arm Cylinder Rod End (1).
6. Arm Pivot Bushing (1).
7. Arm Cylinder Base End (1).
8. Boom Cylinder Base End (1).

9. Boom Cylinder Rod End (1).
10. Swing Cylinder Rod End (2).



LUBRICATION (Cont'd)

⚠ WARNING

AVOID INJURY OR DEATH

Always lower the Backhoe attachment to the ground before lubricating or servicing [A].

W-2178-0295

Use only a high grade, multi-purpose, lithium base lubricating grease. Add grease to the fittings until the extra grease shows.

835S Backhoe (Cont'd)

Item Description (# of Fittings) [A] & [B]

- 11. Boom Pivot Bushing (1).
- 12. Swing Frame Pivot Bushing (2).

- 13. Swing Cylinders Pivot Bushings (4).
- 14. Side Shift Cylinder Pivot Bushings (2).

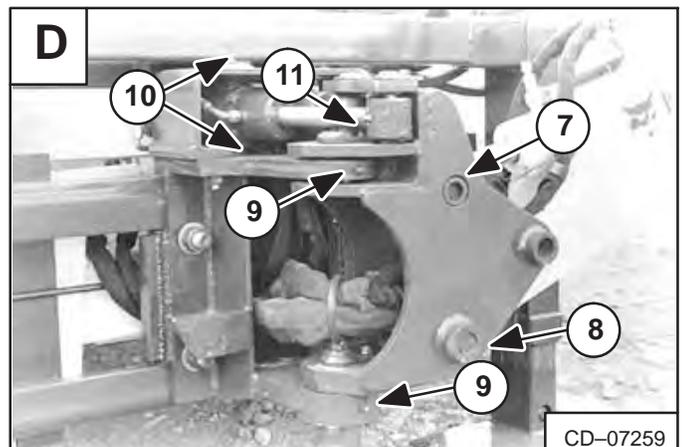
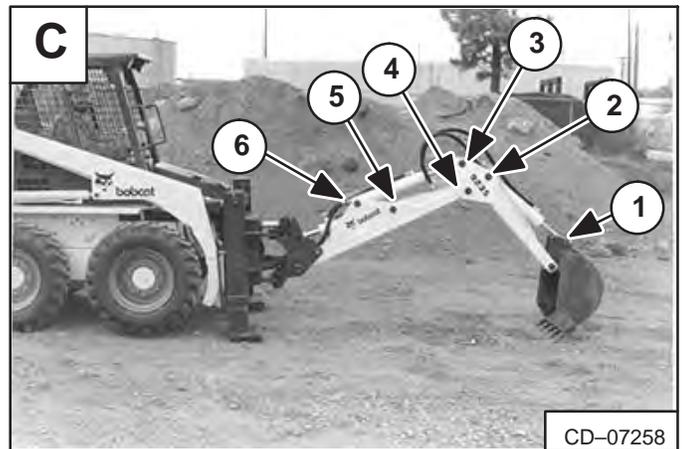
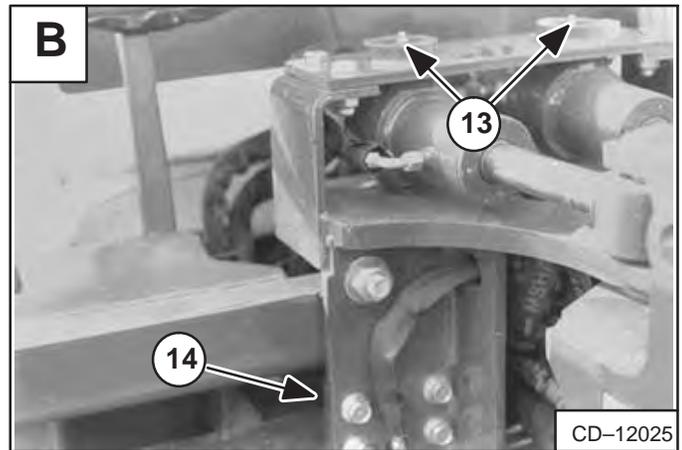
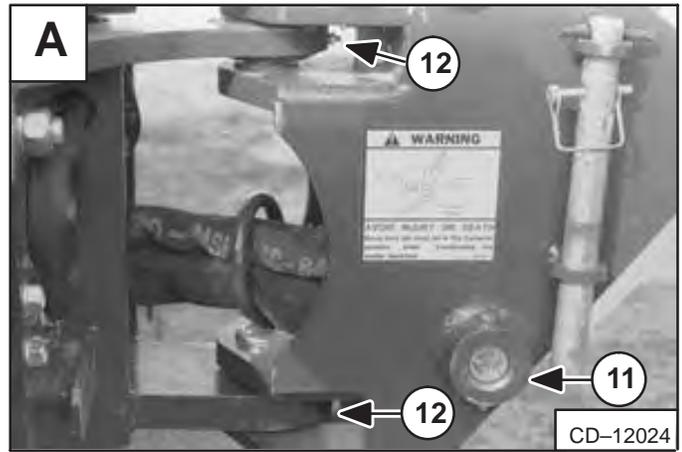
923S & 923SA Backhoe

Use only a high grade, multi-purpose, lithium base lubricating grease. Add grease to the fittings until the extra grease shows.

Lubricate the backhoe every **8 HOURS** of operation [C] & [D].

Item Description (# of Fittings)

- 1. Bucket Cylinder Rod End (1)
- 2. Bucket Cylinder Base End (1)
- 3. Arm Cylinder Rod End (1)
- 4. Arm Pivot Bushing (1)
- 5. Boom Cylinder Base End (1)
- 6. Arm Cylinder Base End (1)
- 7. Boom Cylinder Rod End (1)
- 8. Boom Pivot Bushing (1)
- 9. Swing Frame Pivot Bushings (2)
- 10. Swing Cylinders Pivot Bushings (4)
- 11. Swing Cylinder Rod End (2)



SWING CHAIN (905)

Adjustment

Move the boom and arm to the center position. Lower the bucket to the ground and stop the engine.

Loosen the jam nut (Item 1) [A] and loosen the adjustment nut (Item 2) [A].

Tighten the adjustment nut (Item 2) [A] hand tight then one full turn tighter.

Repeat the procedure to adjust the other chain.

Swing the backhoe boom both ways to check adjustment.

If the boom swings further one way, loosen the adjustment nut on the side it swings the farthest and tighten the adjustment nut an equal amount on the side that swings shortest.

Removal and Installation

Remove the jam nut (Item 1) [A].

Remove the adjustment nut (Item 1) [B], the flat washer (Item 2) [B], the rubber washer (Item 3) [B], and the cup (Item 4) [B].

Replace the parts as needed.

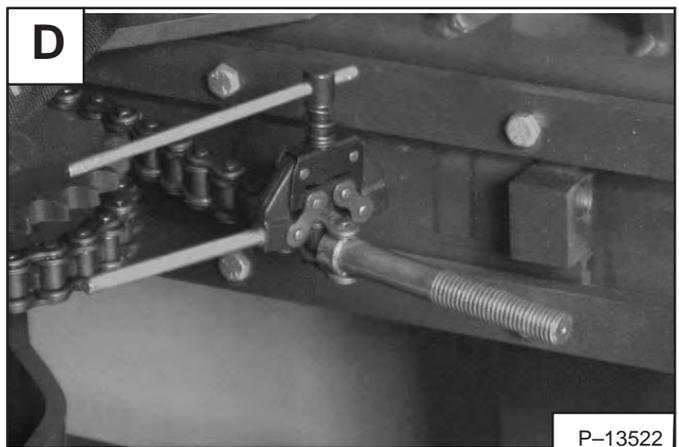
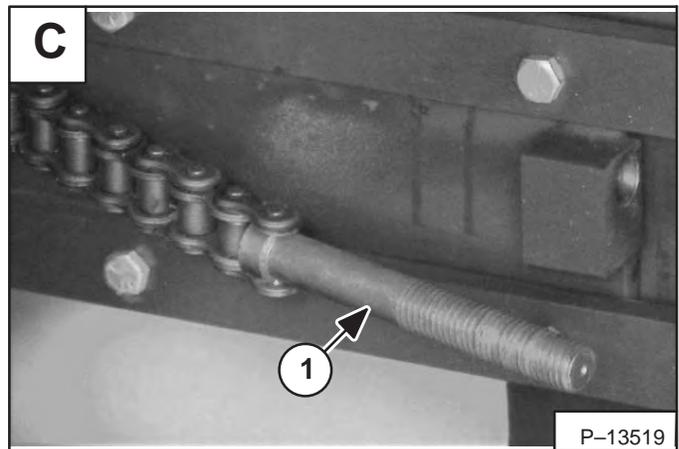
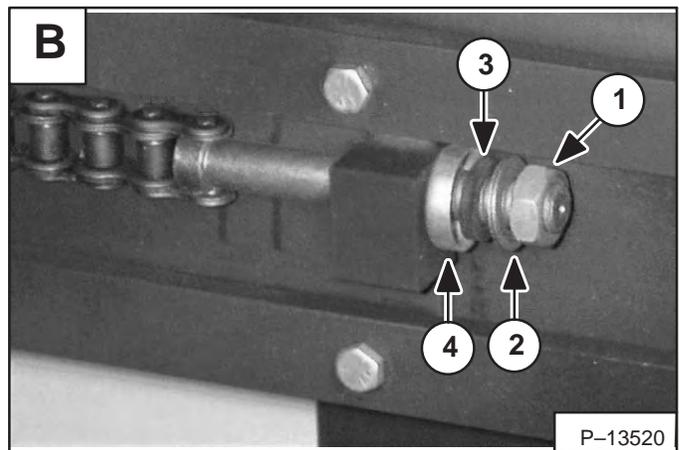
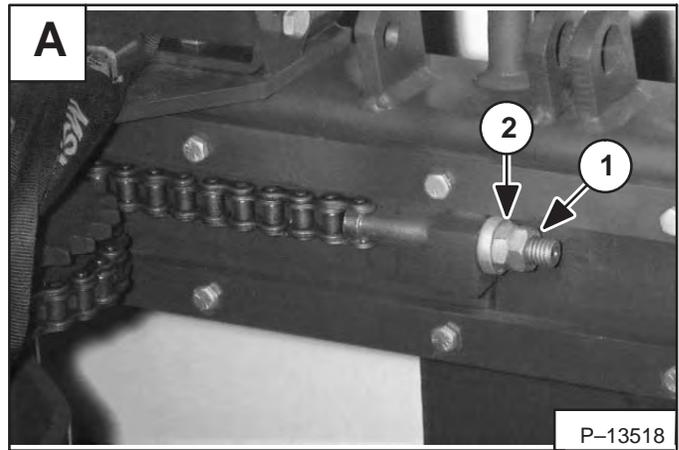
Remove the adjustment bolt (Item 1) [C] from the block.

The 905 backhoes will require the chain breaker tool MEL1045 to remove the connector plate from the link [D].

Remove and discard the link and connector plate.

Use a new link and connector plate during assembly (see your dealer for the replacement connector assembly).

NOTE: During assembly of the swing chain use only a press fit connector link at the adjustment bolt end.

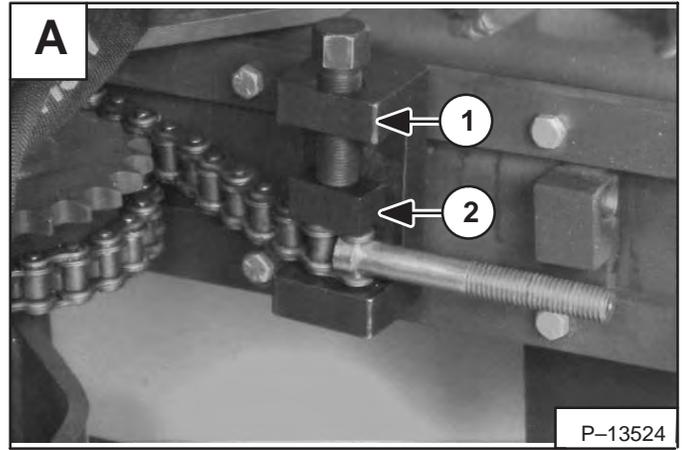


SWING CHAIN (905) (Cont'd)

Removal and Installation (Cont'd)

Installation: Use the chain link tool MEL1037 (Item 1) [A] and v-block MEL1037-60 (Item 2) [A] to press the connector plate over the connector link.

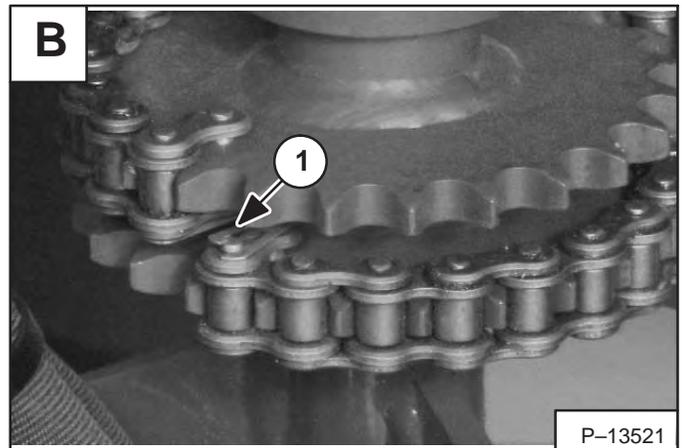
NOTE: The force required for compression is approximately 75 ft.-lbs. (102 Nm) torque. A bench vise may be needed for compression.



Remove the retainer clip (Item 1) [B] and connector plate from the link.

Remove the link and chain from the sprocket.

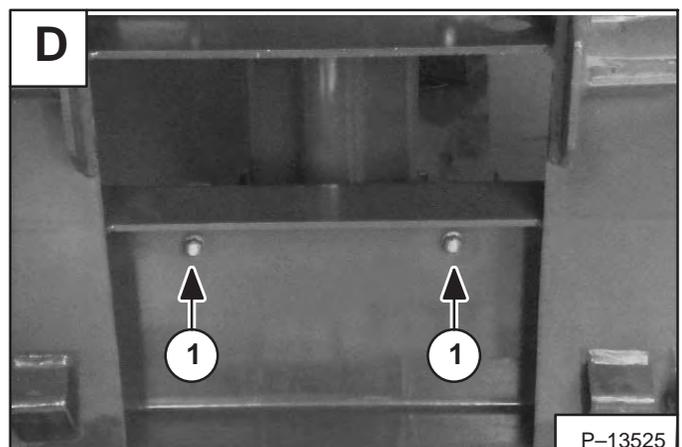
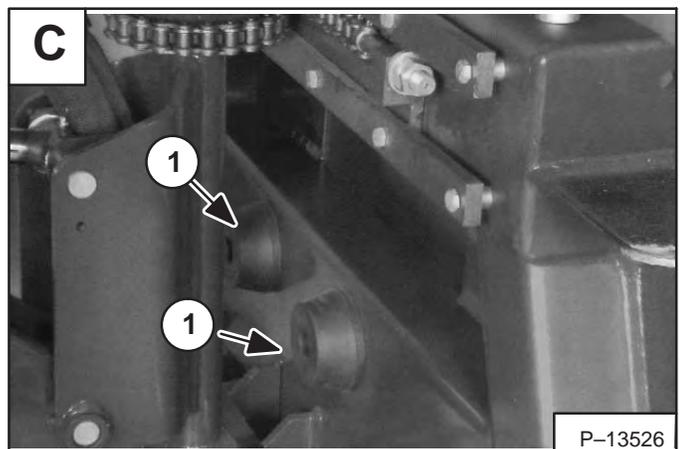
Repeat the procedure for the other chain if needed.



Rubber Stops

Hold the nuts located inside the rubber stops (Item 1) [C] while removing the bolts (Item 1) [D] from the frame.

Tighten the nuts to 25-28 ft.-lbs. (34-38 Nm) torque.



BOOM AND ARM

Removal And Installation

Backhoe must be securely attached to the loader to do the following:

Move the boom, arm and bucket to the horizontal position shown [A]. Block the boom and bucket as shown [A].

NOTE: The boom must be secure when removed from the main frame.

IMPORTANT

When repairing hydrostatic and hydraulic systems, clean the work area before disassembly and keep all parts clean. Always use caps and plugs on hoses, tubelines and ports to keep dirt out. Dirt can quickly damage the system.

I-2003-0888

Mark and disconnect the hydraulic hoses and tubelines so the boom, arm and bucket can be removed from the swing frame.

Cap and plug the hoses and tubelines.

Remove the pin (Item 1) [B] from the boom cylinder and the swing frame.

Remove the pin (Item 2) [B] from the boom and the swing frame.

NOTE: The mounting pins may be different on some backhoes. The backhoe shown is 725S.

NOTE: It may be necessary to connect a chain hoist to the boom to aid in pin removal.

Enter the loader, lower the seat bar and fasten the seat belt.

Drive the loader back slowly to disconnect the swing frame from the boom, arm, and bucket assembly.

BACKHOE MOUNTING FRAME

Removal and Installation

Hook Mounted Backhoe: (607, 709, 709FDS, 8709, & 811)

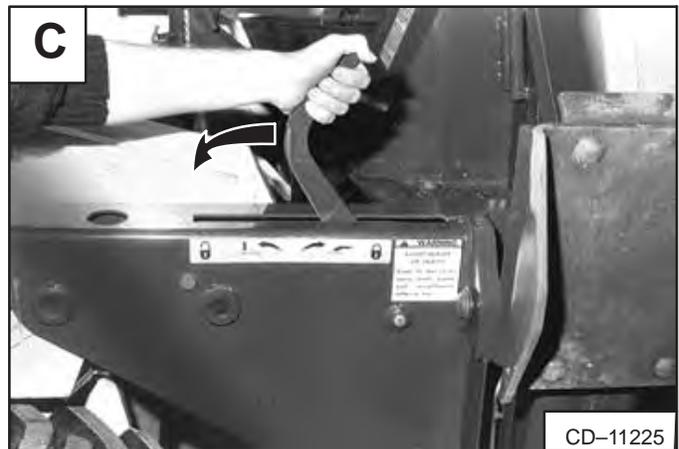
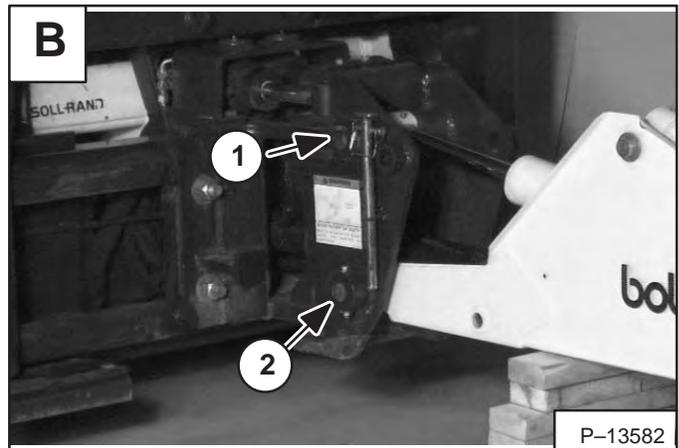
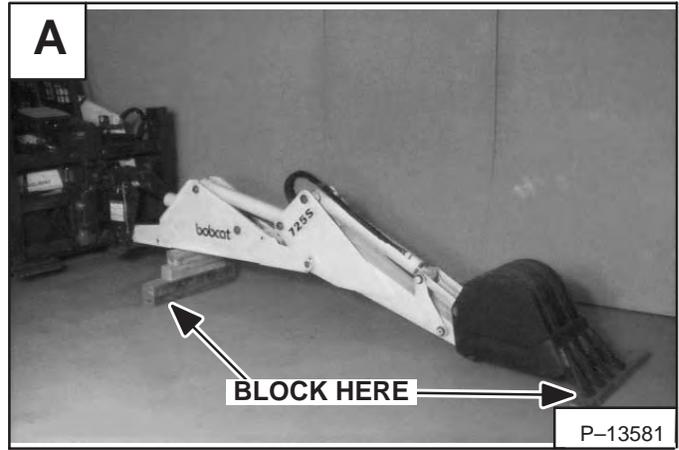
NOTE: When the backhoe mounting frame is attached to the loader, the swing frame can be removed.

Release the backhoe frame locking levers to release the backhoe main frame from the loader [C].

Disconnect the auxiliary couplers from the loader.

From the loader seat, raise the lift arms slightly to remove the backhoe main frame weight from the loader mounting hooks [D].

Tilt the Bob-Tach backward completely and raise the lift arms until the backhoe frame pins are above the mounting hooks [D].

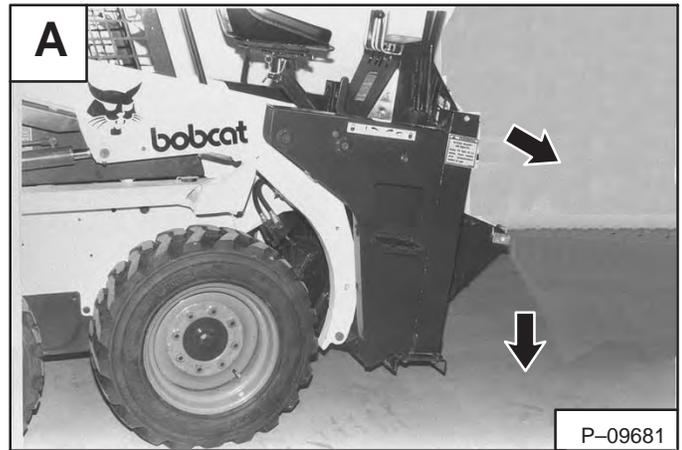


BACKHOE MOUNTING FRAME (Cont'd)

Removal And Installation (Cont'd)

Hook Mounted Backhoe: (Cont'd)

Tilt the Bob-Tach forward and lower the lift arms until the main frame rests on the ground **[A]**.

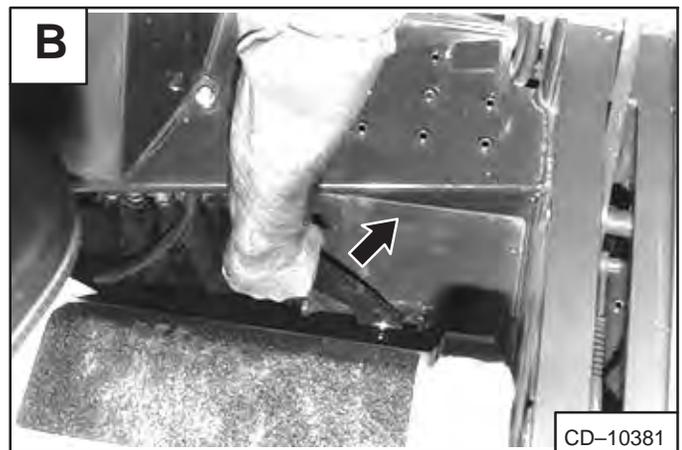


Release the Bob-Tach levers **[B]**.

Enter the cab, lower the seat bar and fasten the seat belt. Start the engine and release the parking brake.

Tilt the Bob-Tach forward, lower the lift arms and back the loader from the backhoe main frame.

Reverse the procedure to install the backhoe mounting frame.

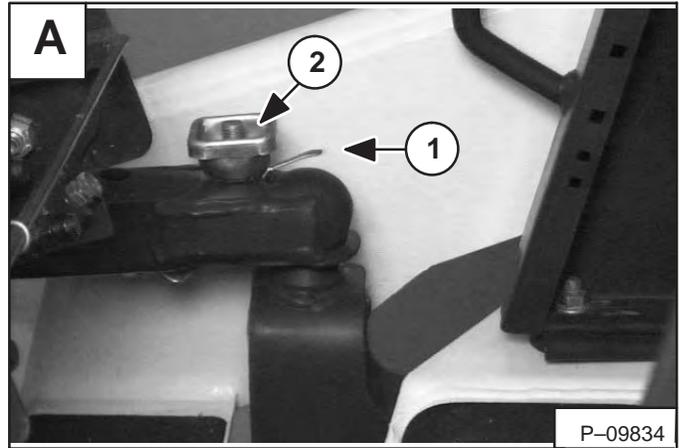


BACKHOE MOUNTING FRAME (Cont'd)

Removal and Installation (Cont'd)

Ball Mounted Backhoe: (907, 909, 911, 725S, 730S, 835S, 923S, & 923SA)

Push down on the hand wheel lock (Item 1) **[A]** and loosen the hand wheel (Item 2) **[A]**.

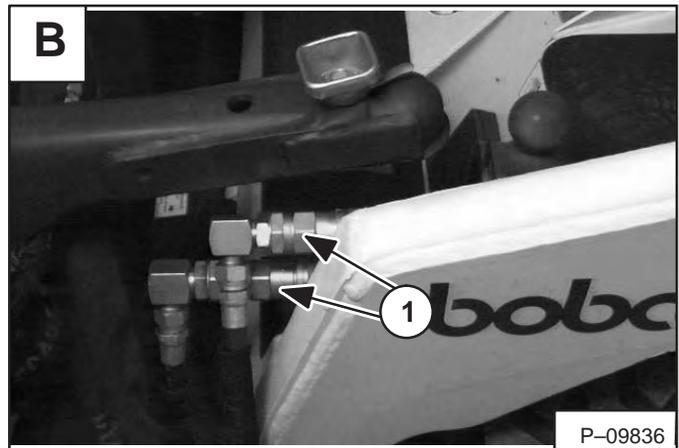


Raise the lift arms until the mounting couplers are away from the mounting balls **[B]**.

Disconnect the auxiliary couplers (Item 1) **[B]** from the loader quick couplers.

Stop the engine, release the seat belt, and raise the seat bar.

Move the pedals to check that both pedals lock. Engage the parking brake.



Release the Bob-Tach levers **[C]**.

Enter the cab, lower the seat bar and fasten the seat belt. Start the engine and release the parking brake.

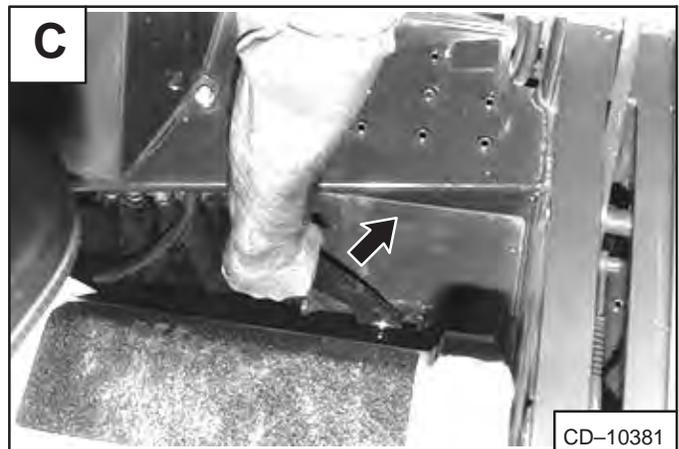
Place blocks on the ground and tilt the Bob-Tach forward and lower the lift arms until the mounting frame rests on the blocks.

Tilt the Bob-Tach forward, lower the lift arms and back the loader from the backhoe main frame.

Stop the engine, release the seat belt, and raise the seat bar.

Move the pedals to check that both pedals lock. Engage the parking brake.

Reverse the procedure to install the backhoe mounting frame.



SWING FRAME

Removal (905B)

Remove the boom and arm assembly. (See Page 1–16.)

Position the backhoe mounting frame on the floor so the swing frame is up. Use wooden blocks to support the mounting frame.

Remove the swing chain. (See Page 1–12.)

Support the swing frame with the chain hoist.

Remove the nut (Item 1) [A] from the swing frame

Remove the bolts (Item 2) [A] from the swing frame mount.

Use the chain hoist to remove the swing frame from the mounting frame.

Replace worn or damaged parts as needed.

NOTE: The upper and lower bearings (Item 3) [A] are a press fit in the frame and swing post mount.

Installation

Use a chain hoist to position the swing frame in the bottom bearing.

Install the swing frame mount on the top of the swing frame.

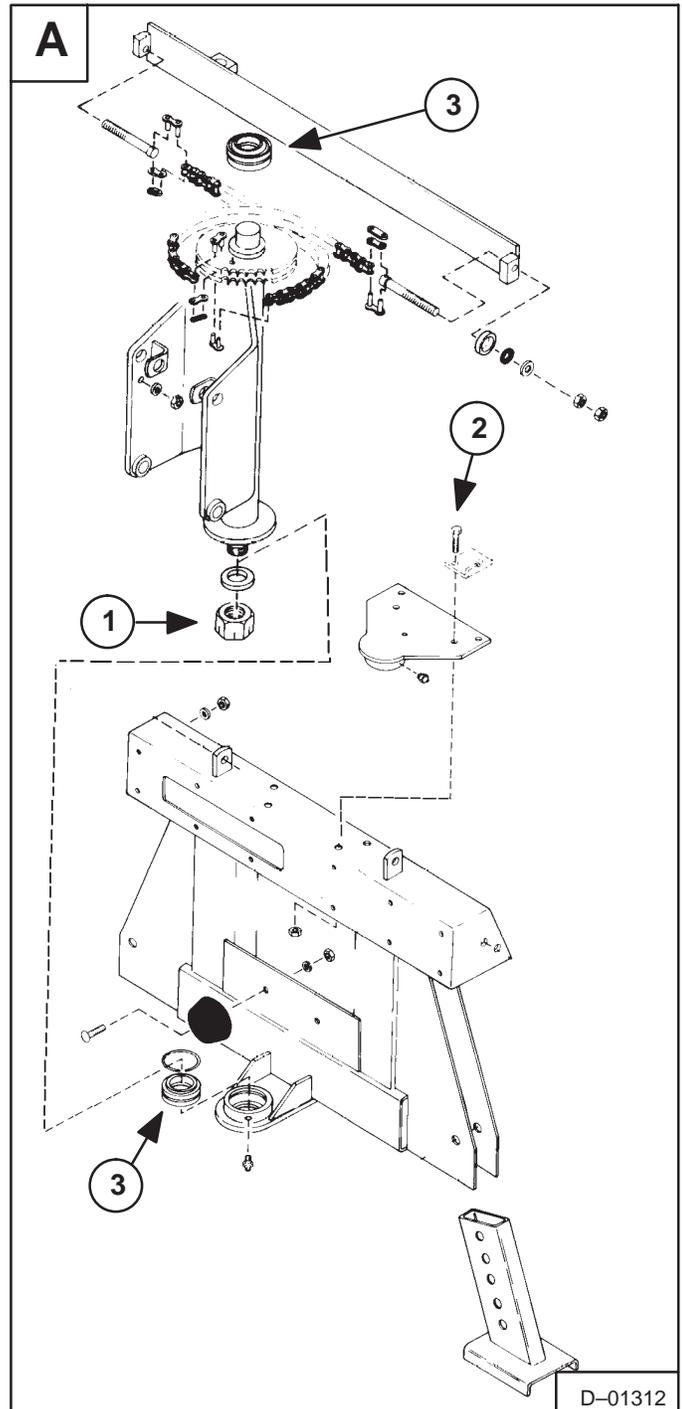
Align the swing frame mount holes in the frame and install the bolts.

Installation: Tighten the bolts to 90–100 ft.-lbs. (125–135 Nm) torque.

Install the washer and nut (Item 1) [A] on the bottom of the swing frame.

Installation: Tighten the nut to 600–800 ft.-lbs. (814–1085 Nm) torque.

Install the swing chain. (See Page 1–12.)



SWING FRAME (Cont'd)

Removal (913, 911, 911B, 911C, 811, 607, 709, & 8709)

Remove the boom and arm assembly. (See Page 1-16.)

Position the backhoe mounting frame on the floor so the swing is up. Use wooden blocks to support the frame.

Remove the cap (Item 1) [A], bolts (Item 2) [A], and washers (Item 3) [A].

Support the swing frame (Item 4) [A] with the chain hoist.

Use a hammer and punch to remove the pivot pin (Item 5) [A].

Remove the swing frame.

Replace worn or damaged parts as needed.

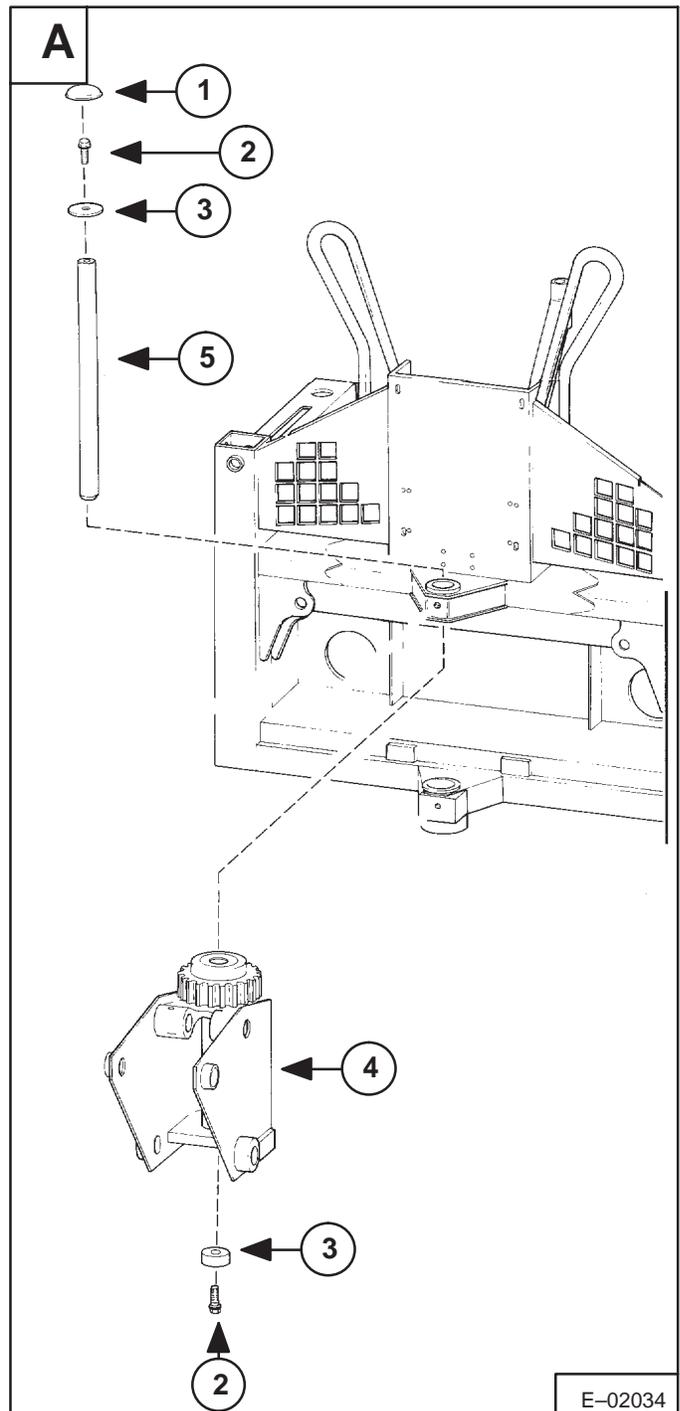
Installation

Use a chain hoist to position the swing frame (Item 4) [A] for pivot pin installation.

Install the pivot pin (Item 5) [A], the washers (Item 3) [A], and bolts (Item 2) [A].

Tighten the bolts to 300–330 ft.-lbs. (407–447 Nm) torque.

Install the cap (Item 1) [A].



SWING FRAME (Cont'd)

Removal (907 & 909)

Remove the boom and arm assembly. (See Page 1-16.)

Position the backhoe mounting frame on the floor so the swing is up. Use wooden blocks to support the frame.

Remove the cap (Item 1) [A], bolts (Item 2) [A], and washers (Item 3) [A].

Support the swing frame (Item 4) [A] with the chain hoist.

Use a hammer and punch to remove the pivot pin (Item 5) [A].

Remove the swing frame.

Remove the upper bearing (Item 6) [A].

Remove the bolts (Item 7) [A] and plate (Item 8) [A] to remove the lower bearing (Item 9) [A].

Replace parts as needed.

Installation

Install the upper bearing.

Use the reverse procedure to install the lower bearing, plate, and bolts in the mounting frame.

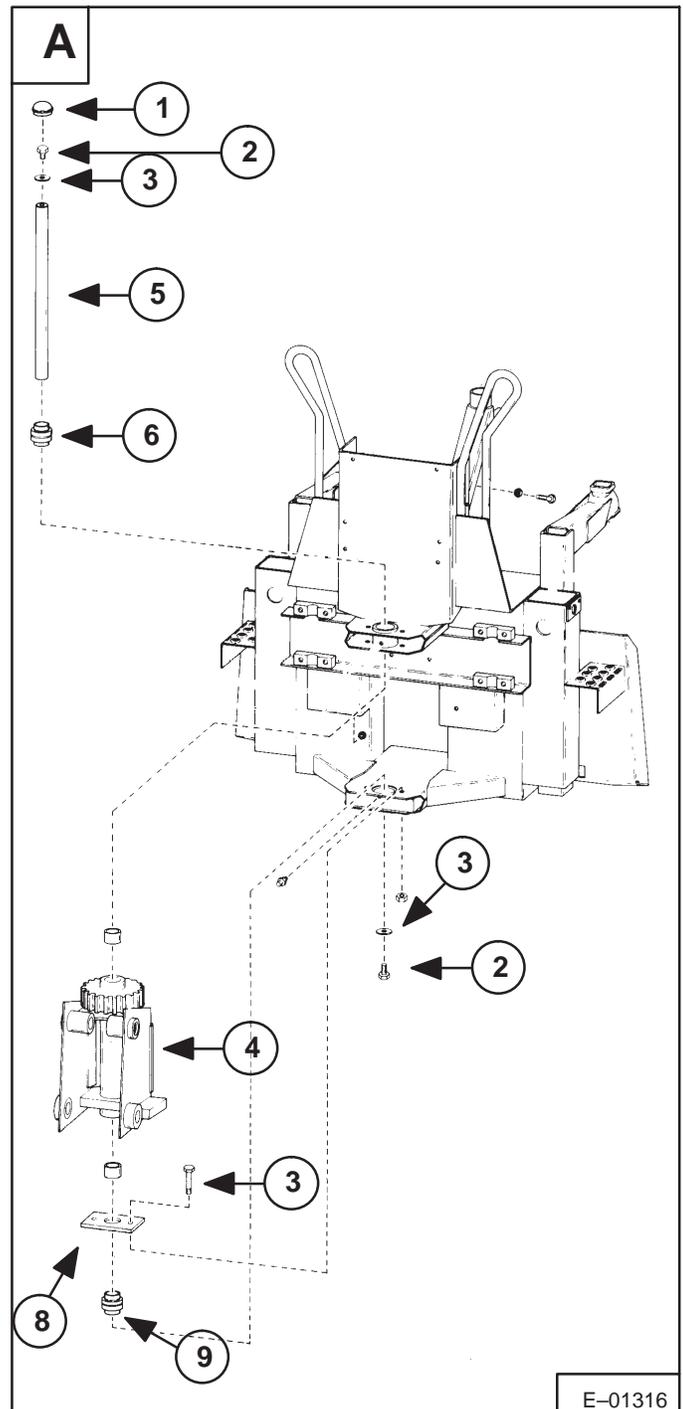
Use a chain hoist to position the swing frame (Item 4) [A] for pivot pin installation.

Install the pivot pin (Item 5) [A], the washers (Item 3) [A], and bolts (Item 2) [A].

Tighten the bolts (Item 2) [A] to 170–190 ft.-lbs. (240–260 Nm) torque.

Tighten the bolt (Item 3) [A] to 90–100 Ft.-lbs. (125–135 Nm) torque.

Install the cap (Item 1) [A].



SWING FRAME (Cont'd)

Removal (914B)

Remove the boom and arm assembly. (See Page 1-16.)

Position the backhoe mounting frame on the floor so the swing frame is up. Use wooden blocks to support the mounting frame.

Remove the cap (Item 1) [A], bolts (Item 2) [A], and washers (Item 3) [A].

Support the swing frame (Item 4) [A] with the chain hoist.

Use a hammer and punch to remove the pivot pin (Item 5) [A].

Remove the swing frame (Item 4) [A].

Remove the upper bearing (Item 6) [A] and the lower bearing (Item 7) [A].

Replace worn or damaged parts as needed.

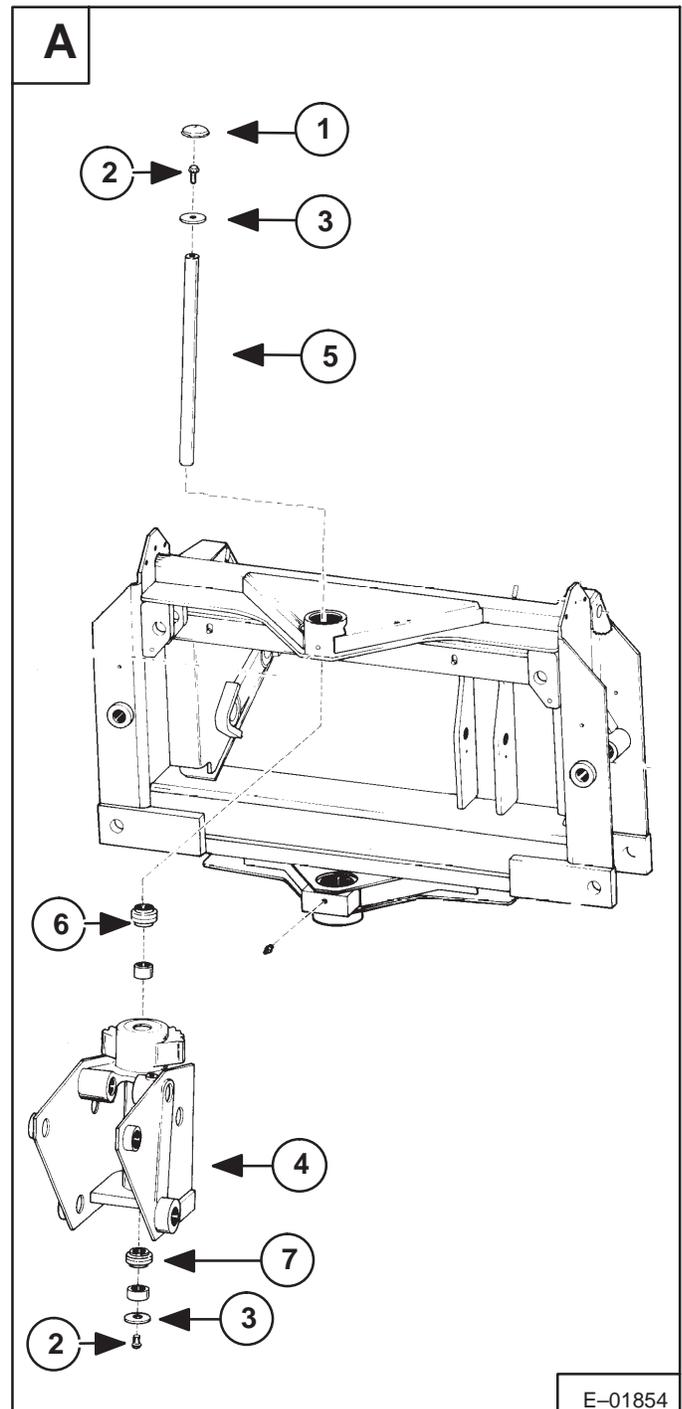
Installation (914B)

reverse the procedure to install the swing frame.

Use a chain hoist to position the swing frame (Item 4) [A] for pivot pin installation.

Tighten the bolts (Item 2) [A] to 245 ft.-lbs. (330 Nm) torque.

Install the cap (Item 1) [A].



SWING FRAME (Cont'd)

Side Shift Frame Removal

Remove the boom and arm assembly. (See Page 1-16.)

Position the backhoe mounting frame on the floor so the side shift frame and swing frame are up. Use wooden blocks to support the assembly.

Use a hoist for support, if needed during repair.

The side shift frame and swing frame can be removed as a unit. Use the following procedure:

Remove the nuts (Item 1) [A] from the mounting plate (Item 2) [A] to remove the side shift frame and swing frame.

Installation: Tighten the nuts (Item 1) [A] to 475 ft.-bs. (645 Nm) torque.

Remove the bolts (Item 3) [A] to remove the swing frame mounting pins (Items 4 & 5) [A].

Remove the swing frame (Item 6) [A] from the side shift frame.

Installation

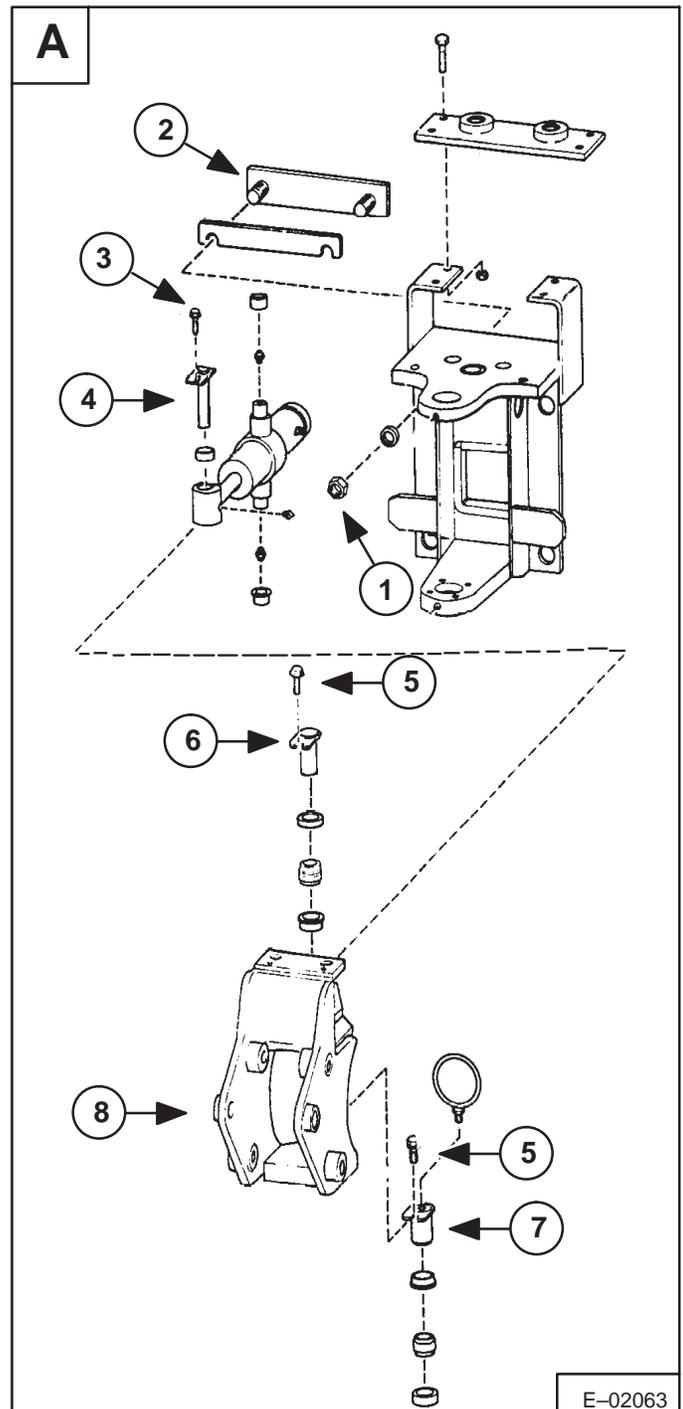
Use a chain hoist to align the swing frame mounting pin holes and the mounting pin holes in the side shift frame [A].

Install the pins (Item 4 & 5) [A] and the bolts (Item 3) [A].

Installation: Tighten the bolts to 20 ft.-lbs. (27 Nm) torque.

Align the swing cylinder rod end bushing, with the swing frame, and install the swing cylinder pin (Item 2) [A] and the bolt (Item 1) [A].

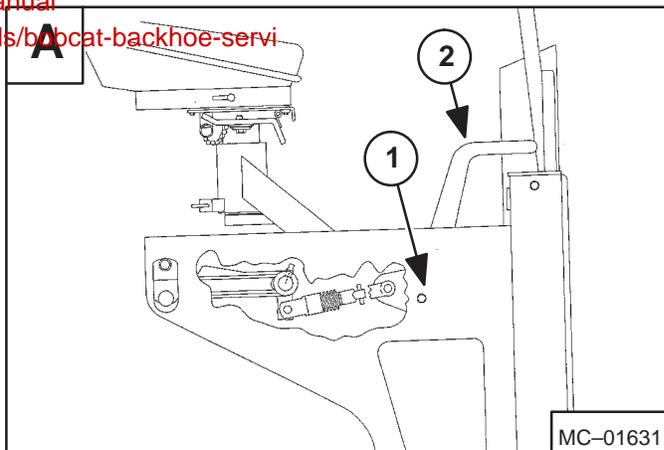
Installation: Tighten the bolt to 20 ft.-lbs. (27 Nm) torque.



Product: Bobcat BACKHOE Service Repair Workshop Manual
LOCKING MECHANISM

Full Download: <https://www.arepairmanual.com/downloads/bobcat-backhoe-service-repair-workshop-manual/>
(607, 709, 709FDS, 8709, & 811)

Remove the mounting bolt (Item 1) [A] and nut from the handle (Item 2) [A] on the locking mechanism.



Remove the bushing (Item 1) [B] and spring (Item 2) [B].

Remove the snap rings (Item 3) [B] and stop mounting pin (Item 4) [B] from the stop (Item 7) [B].

Remove the latch assembly (Item 6) [B] from the mounting frame.

Remove the roll pins (Item 5) [B] from each end of the latch tension assembly.

Reverse the procedure to install the locking mechanism in the mounting frame.

