Pilot Auger

Renegade, Sheriff, and Outlaw Post Pounders Assembly Manual

This manual applies to:
Standard Models
Plus Models

Read this manual before using product. Failure to follow instructions and safety precautions can result in serious injury, death, or property damage. Keep manual for future reference.

Part Number: P302000077 R7

Revised: January 2021

Original Instructions

CONTENTS

1. Safety

1.1. Safety Alert Symbol and Signal Words

This safety alert symbol indicates important safety messages in this manual. When you see this symbol, be alert to the possibility of injury or death, carefully read the message that follows, and inform others.

Signal Words: Note the use of the signal words **DANGER**, **WARNING**, **CAUTION**, and **NOTICE** with the safety messages. The appropriate signal word for each message has been selected using the definitions below as a guideline.

DANGER Indicates an imminently hazardous situation that, if not avoided, will result in serious injury or death.

WARNING Indicates a hazardous situation that, if not avoided, could result in serious injury or death.

CAUTION Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.

NOTICE Indicates a potentially hazardous situation that, if not avoided, may result in property damage.

1.2. Follow Safety Instructions

Read and understand all safety instructions, safety decals, and manuals and follow them when operating or maintaining the equipment.

- Owners must give instructions and review the information initially and annually with all personnel before allowing them in the work area. Untrained users/operators expose themselves and bystanders to possible serious injury or death.

- Use for intended purposes only.
- Do not modify the post pounder in any way without written permission from the manufacturer and is not covered by the warranty.
- Follow a health and safety program for your worksite. Contact your local occupational health and safety organization for information.
- Follow applicable local codes and regulations.

1.3. Pounding Posts

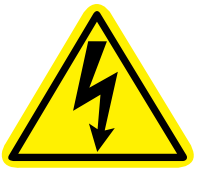
DANGER

- Keep body away when operating machine.
- Never put your hand between the post hugger and a post.
- Always use the post hugger to hold a post. Never hold a post with any part of your body.
- Never place any part of your body under the post pounder head when it is in the raised position.
- Always wear proper eye, hand, leg, foot, and head protection.
- Do not use damaged posts, flying debris could cause serious injury.

1.4. Overhead Power Lines

DANGER

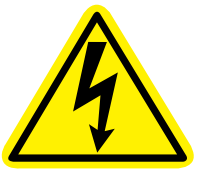
- When operating or moving, keep post pounder away from overhead power lines and devices.
- The post pounder is not insulated.
- Electrocution can occur without direct contact.



1.5. Underground Power Lines

DANGER

- When operating, keep post pounder away from underground power lines and devices.
- The post pounder is not insulated.
- Call the local utility company before operating to ensure there are no buried power lines where you will be working.
- If posts hit underground power lines you can be seriously injured or die from electrocution.

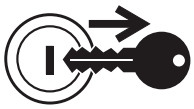


1.6. Underground Gas Lines

DANGER

- When operating or moving, keep the post pounder away from underground gas lines.

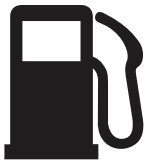
1.7. Drives and Lockout Safety



Inspect the power source(s) before using and know how to shut down in an emergency. Whenever you service or adjust your equipment, make sure you shut down the power source and unplug or remove the key (as applicable) to prevent inadvertent start-up and hazardous energy release. Know the procedure(s) that applies to your equipment from the following power source(s). Ensure that all personnel are clear before turning on power to equipment.

1.7.1 Gas Engine Safety

⚠ WARNING **Power Source**



- Keep guards in place and secure.
- Properly ventilate surrounding area.
- Never fill the fuel tank with the engine running, while smoking, or near an open flame. Always shut down and allow engine to cool before filling with fuel.
- Never overfill the tank or spill fuel. If fuel is spilled, clean it up immediately.
- Be sure to use the correct type and grade of fuel. Ground the fuel funnel or nozzle against the filler neck to prevent sparks that could ignite fuel vapors.
- Be sure to replace the fuel fill cap when you are done.

Lockout

- For engines with an electric start, remove the ignition key, the spark plug wire, or the spark plug.
- For engines with a rope or crank start, remove the spark plug wire or the spark plug.

1.7.2 PTO Safety

⚠ WARNING **Drive**

- Ensure that the PTO is attached securely to the tractor and the machine.
- Make sure all PTO guards are in good repair and in place prior to hooking up the PTO.

Lockout

- Position all controls in neutral, shut off tractor’s engine, and remove key from tractor.
- If removing key is impossible, remove PTO from tractor.

1.7.3 Hydraulic Power Safety

⚠ WARNING **Power Source**

- Refer to the rules and regulations applicable to the power source operating your hydraulic drive.
- Do not connect or disconnect hydraulic lines while system is under pressure.
- Keep all hydraulic lines away from moving parts and pinch points.
- Escaping hydraulic fluid under pressure will cause serious injury if it penetrates the skin surface (serious infection or toxic reaction can develop). See a doctor immediately if injured.
- Use metal or wood as a backstop when searching for hydraulic leaks and wear proper hand and eye protection.
- Check all hydraulic components are tight and in good condition. Replace any worn, cut, abraded, flattened, or crimped hoses.
- Clean the connections before connecting to equipment.
- Do not attempt any makeshift repairs to the hydraulic fittings or hoses with tape, clamps, or adhesive. The hydraulic system operates under extremely high pressure; such repairs will fail suddenly and create a hazardous and unsafe condition.

Lockout

- Always place all hydraulic controls in neutral and relieve system pressure before disconnecting or working on hydraulic system.

1.8. Tire Safety

⚠ WARNING Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion that may result in serious injury or death.

- DO NOT attempt to mount a tire unless you have the proper equipment and experience to do the job.
- Have a qualified tire dealer or repair service perform required tire maintenance.
- When replacing worn tires, make sure they meet the original tire specifications. Never undersize the replacement tire.
- DO NOT weld to the tire rim with the tire mounted on the rim. This action may cause an explosion which could result in serious injury or death.
- Inflate tires to the manufacturer's recommended pressure.
- Tires should not be operated at speeds higher than their rated speed.
- Keep wheel lug nuts tightened to manufacturer's recommendations.
- Never reinflate a tire that has been run flat or seriously under-inflated without removing the tire from the wheel. Have the tire and wheel closely inspected for damage before remounting.

1.9. Battery Safety

⚠ WARNING

- Wear safety glasses and protective gloves when working near batteries.
- Make certain the battery or terminal covers are in place and in good working order.
- Keep all sparks and flames away from batteries; gas given off by electrolyte is explosive.
- Avoid contact with battery electrolyte. Wash off any spilled electrolyte immediately.
- Do not tip batteries more than 45° to avoid electrolyte loss.
- To avoid injury from sparks or short circuits, disconnect battery ground cable before servicing any part of an electrical system.

1.10. Personal Protective Equipment

The following Personal Protective Equipment (PPE) should be worn when operating or maintaining the equipment.

Safety Glasses

- Wear safety glasses at all times to protect eyes from debris.

Coveralls

- Wear coveralls to protect skin.

Hard Hat

- Wear a hard hat to help protect your head.

Steel-Toe Boots

- Wear steel-toe boots to protect feet from falling debris.

Hearing Protection

- Wear ear protection to prevent hearing damage.

Work Gloves

- Wear work gloves to protect your hands from sharp and rough edges.

1.11. Safety Equipment

The following safety equipment should be kept on site.

Fire Extinguisher

- Provide a fire extinguisher for use in case of an accident. Store in a highly visible and accessible place.

First-Aid Kit

- Have a properly-stocked first-aid kit available for use should the need arise, and know how to use it.

1.12. Safety Decals

- Keep safety decals clean and legible at all times.
- Replace safety decals that are missing or have become illegible. See decal location figures that follow.
- Replaced parts must display the same decal(s) as the original part.
- Replacement safety decals are available **free of charge** from your distributor, dealer, or factory as applicable.

1.12.1 Decal Installation/Replacement

1. Decal area must be clean and dry, with a temperature above 50°F (10°C).
2. Decide on the exact position before you remove the backing paper.
3. Align the decal over the specified area and carefully press the small portion with the exposed sticky backing in place.
4. Slowly peel back the remaining paper and carefully smooth the remaining portion of the decal in place.
5. Small air pockets can be pierced with a pin and smoothed out using the decal backing paper.

1.12.2 Safety Decal Locations and Details

Replicas of the safety decals that are attached to the post pounder and their messages are shown in the figure (s) that follow. Safe operation and use of the post pounder requires that you familiarize yourself with the various safety decals and the areas or particular functions that the decals apply to, as well as the safety precautions that must be taken to avoid serious injury, death, or damage.

Figure 1. Pilot Auger Safety Decal Locations

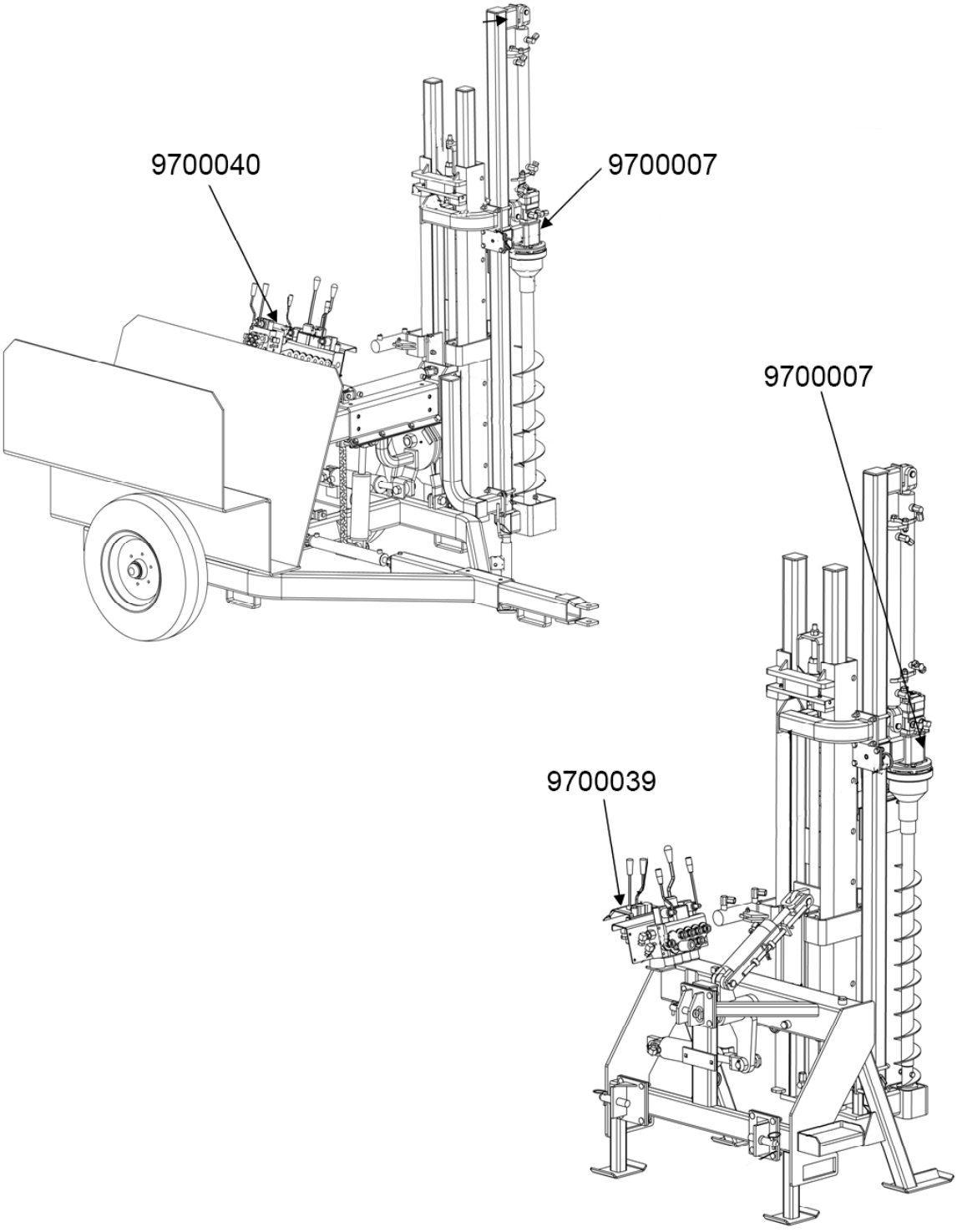
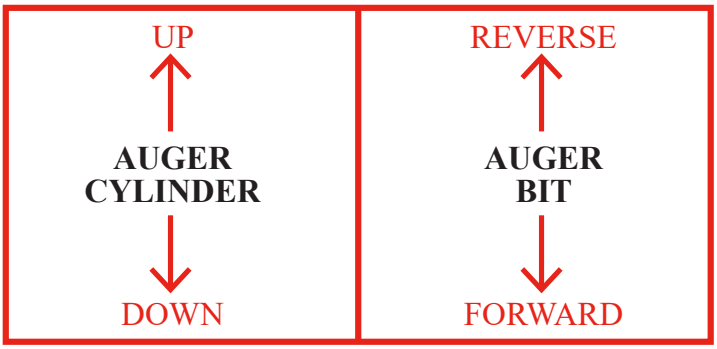
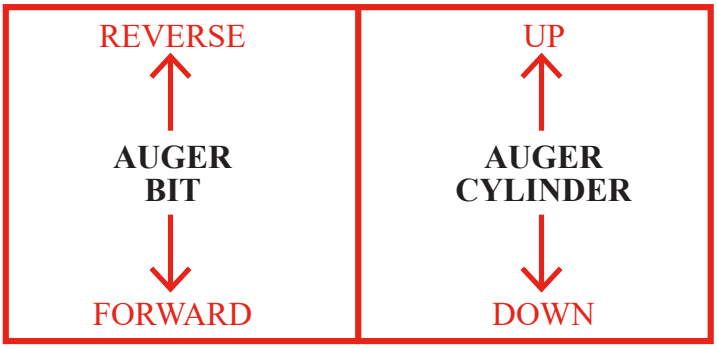


Table 1. Safety Decals

Part Number	Description
9700007	
9700039	
9700040	

2. Features

Figure 2. Pilot Auger

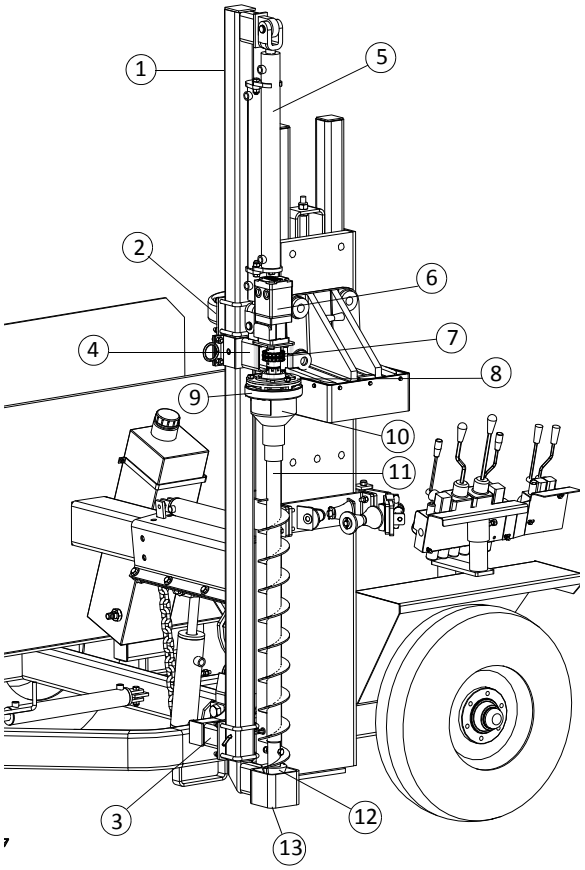


Table 2. Pilot Auger Main Components

Item	Description
1	Main Tube Weldment
2	Upper Mount
3	Lower Mount
4	Powerhead Base
5	Hydraulic Cylinder
6	Hydraulic Motor
7	Coupler Chain
8	Hub
9	Bolt Guard Mount
10	Post Hole Auger Guard
11	Bit
12	Bit Head
13	Stabilizer

3. Assembly

Before continuing, ensure you have completely read and understood this manual's Safety section, in addition to the safety information in the section(s) below.

3.1. Assembly Safety

WARNING

- Do not take chances with safety. The components can be large, heavy, and hard to handle. Always use the proper tools, rated lifting equipment, and lifting points for the job.
- Carry out assembly in a large open area with a level surface.
- Always have two or more people assembling the post pounder.
- Make sure you have sufficient lighting for the work area.
- Tighten all fasteners according to their specifications. Do not replace or substitute bolts, nuts, or other hardware that is of lesser quality than the hardware supplied by the manufacturer.
- Stay away from overhead power lines and other obstructions during assembly. Contact with power lines can cause electrocution.
- Do not work in high winds.
- The equipment shall be installed in accordance with applicable local codes and regulations.

3.2. Check Shipment

Unload the post pounder parts at the assembly site and compare the packing slip to the shipment. Ensure that all items have arrived and that none are damaged. Take pictures of shipments prior to or just after unloading if there are any damaged parts.

Report missing or damaged parts immediately to ensure that proper credit is received from Wheatheart or your representative, and to ensure that any missing parts can be shipped quickly to avoid holding up the assembly process.

Important

Do not assemble or install damaged components.

3.3. Required Tools

The following equipment will be needed during assembly:

- standard socket and wrench
- torque wrench
- standard measuring tape
- a lifting device with a 14' height capability and 1500 lb lifting capacity
- small hammer and screw driver
- blocks

3.4. Before You Begin

Before you assemble the post pounder:

- Familiarize yourself with all the sub-assemblies, components, and hardware that make up the equipment.
- Have all parts and components on hand, and arrange them for easy access.
- Separate the hardware (bolts, nuts, etc.) and lay them out into groups for easier identification during assembly.

3.5. Hydraulic Fittings and Bolt Tightening

Remember the following basic considerations when tightening hydraulic fittings and bolts:

- Tighten all fasteners to the torque specified in Section 5.1 – Bolt Torque on page 42. Do not replace or substitute bolts, nuts, or other hardware that is of lesser quality than the hardware supplied by the manufacturer.
- All hydraulic fittings should be torqued to the recommended specifications. See Section 5.2 – Fittings Torque Values on page 43.

NOTICE Do not over-tighten fittings. Over-tightening hose fittings can crack the fittings or motor body and will void the warranty.

3.6. Pilot Auger Installation

3.6.1 Side Mast Post Pounder Models

1. Remove the eight 1/2” x 2” hex bolts that hold the hugger in place. See Figure 3.
2. Flip the hugger around so that it is mounted on the side of the mast closest to the valve body. Figure 4 shows the hugger assembly mounted closest to the valve body (opposite side).

Figure 3. Removing the Hugger

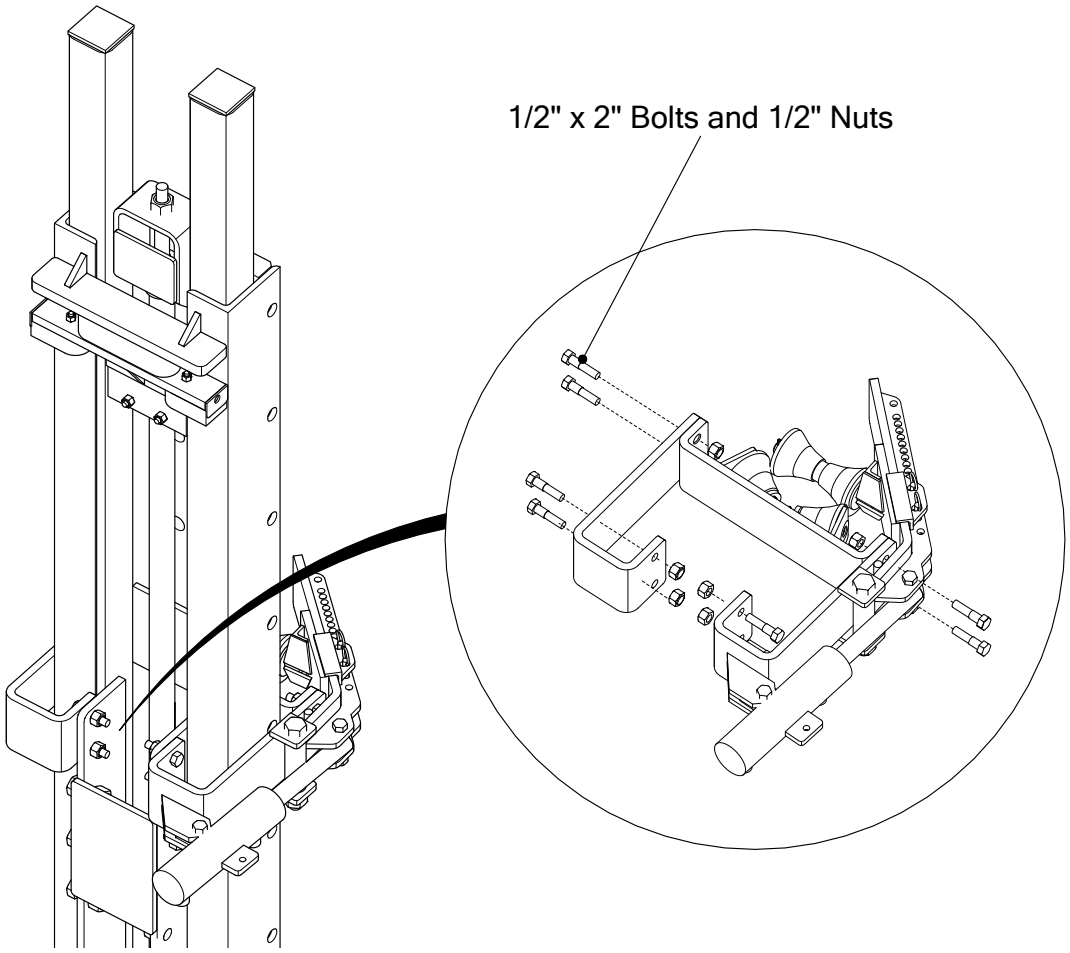
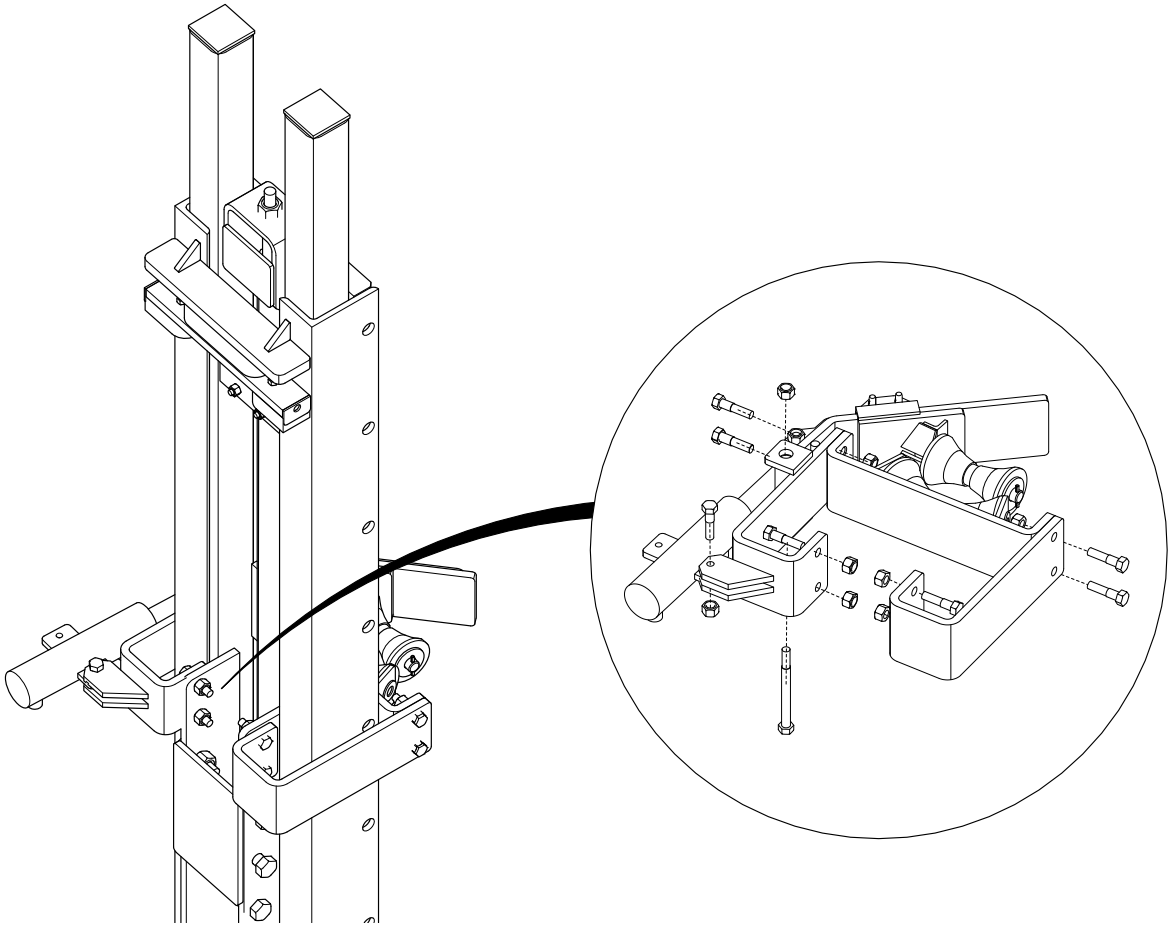


Figure 4. Replacing the Hugger



3. Install the upper (1) and lower (2) mount plates on the 3” x 3” slide tube (3) using two 1/2” x 3-1/8” x 1-1/8” u-bolts (4) for each (see Figure 5 and Figure 6).

   Note

   The 2 mount plates should be mounted 52” apart (58-1/4” for the Renegade Plus), and the 3” x 3” slide tube should be flush with the bottom of the plate on the lower.

Figure 5. Installing the Upper Mount Plate to the Slide Tube

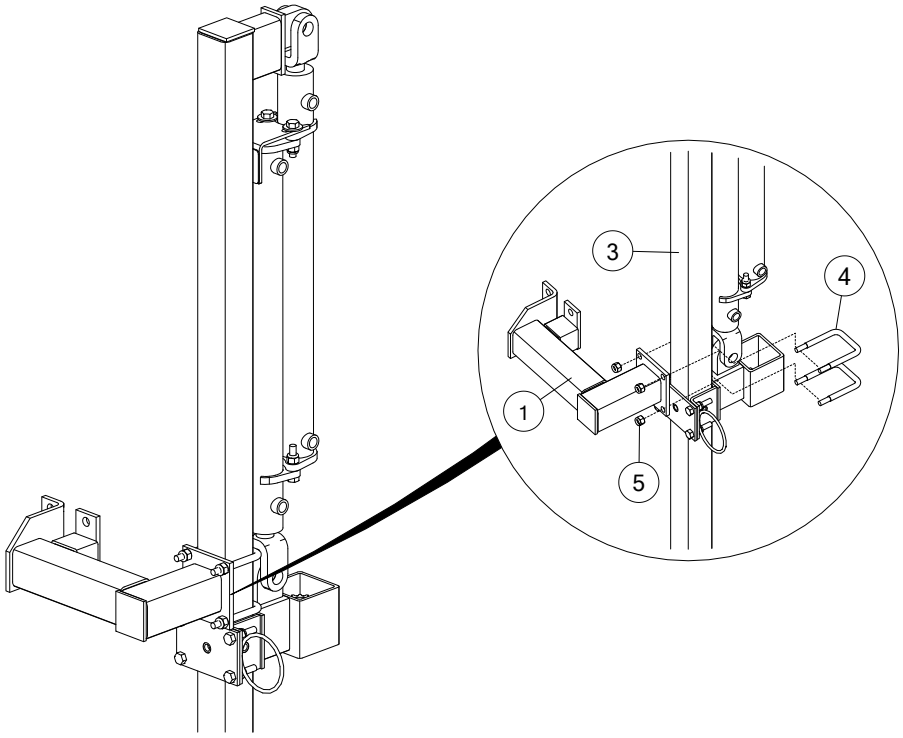


Figure 6. Installing the Lower Mount Plate to the Slide Tube

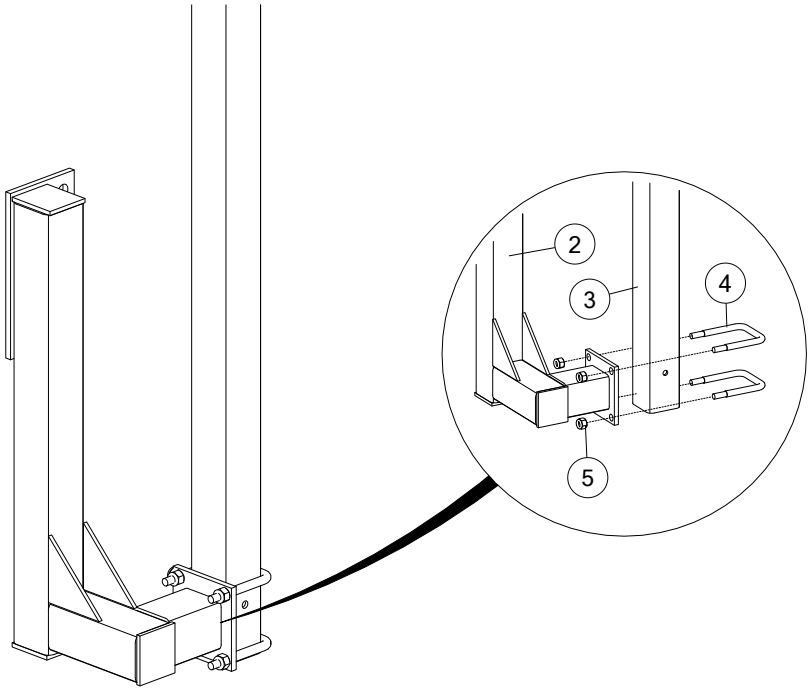
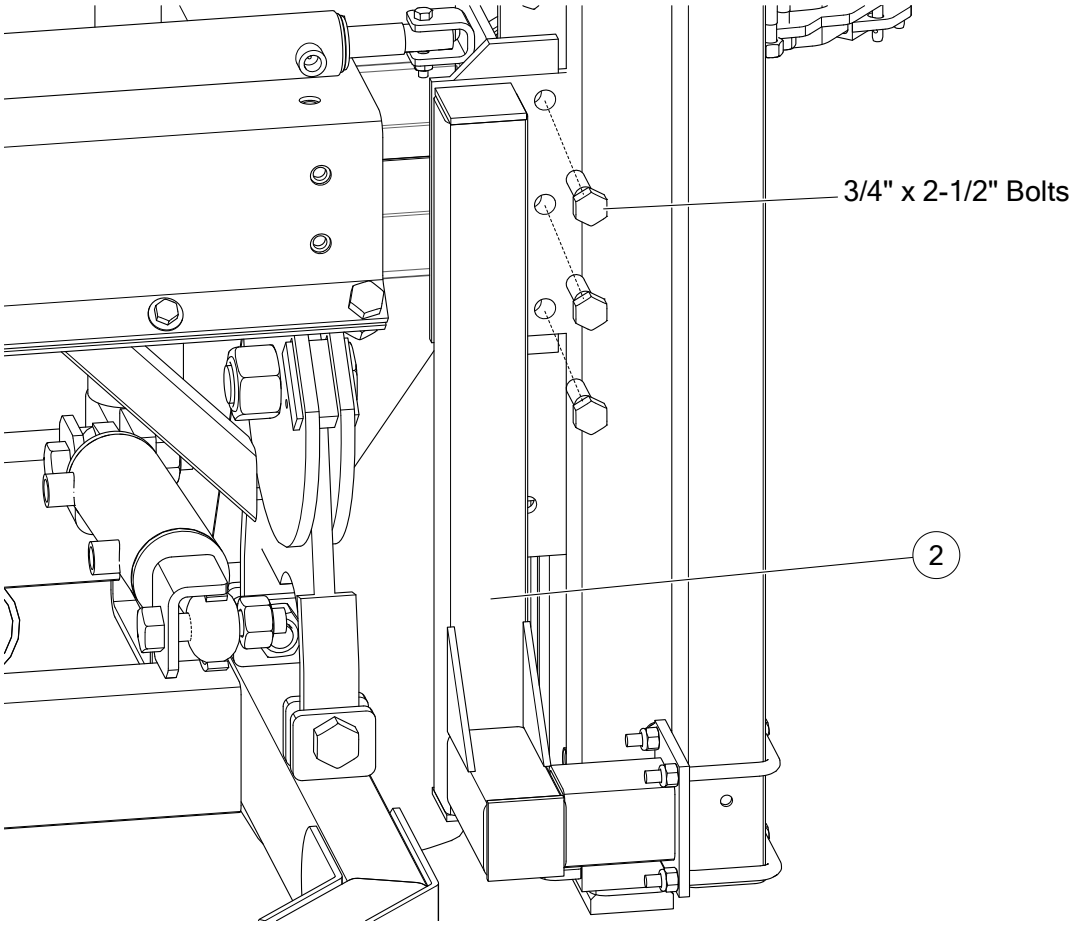


Table 3. Mount Tube and Mount Plates Components

Item	Description
1	Upper Mount
2	Lower Mount
3	Mount Tube Weldment
4	1/2” x 3-1/8” x 4-1/2” x 1-1/8” Bolt, UNC Thd Gr5 PLTD
5	1/2” Nylock Nut , UNC Gr5 PLTD

4. Using the cylinder loop, lift the hammer up 12” – 18” with a lifting device, using proper slings or chains. Block the hammer to ensure that it will not fall while installing the pilot auger.
5. Remove the two 5/8” x 2” bolts used to mount the stop plate, and replace with two 5/8” x 2-1/4” bolts. Do not install the nylock nuts. See Figure 8.
6. Remove the 3/4” nylock nuts from the three 3/4” x 2-1/2” bolts that mount the mast to the slider.
7. Hoist the pilot auger up by the top 2” x 4” cylinder mount tube. Place the lower mount (2) of the pilot auger over the three 3/4” x 2-1/2” bolts, and finger tighten the three 3/4” nylock nuts that was removed in Step 6. See Figure 7.

Figure 7. Installing Lower Mount Plate to the Mast

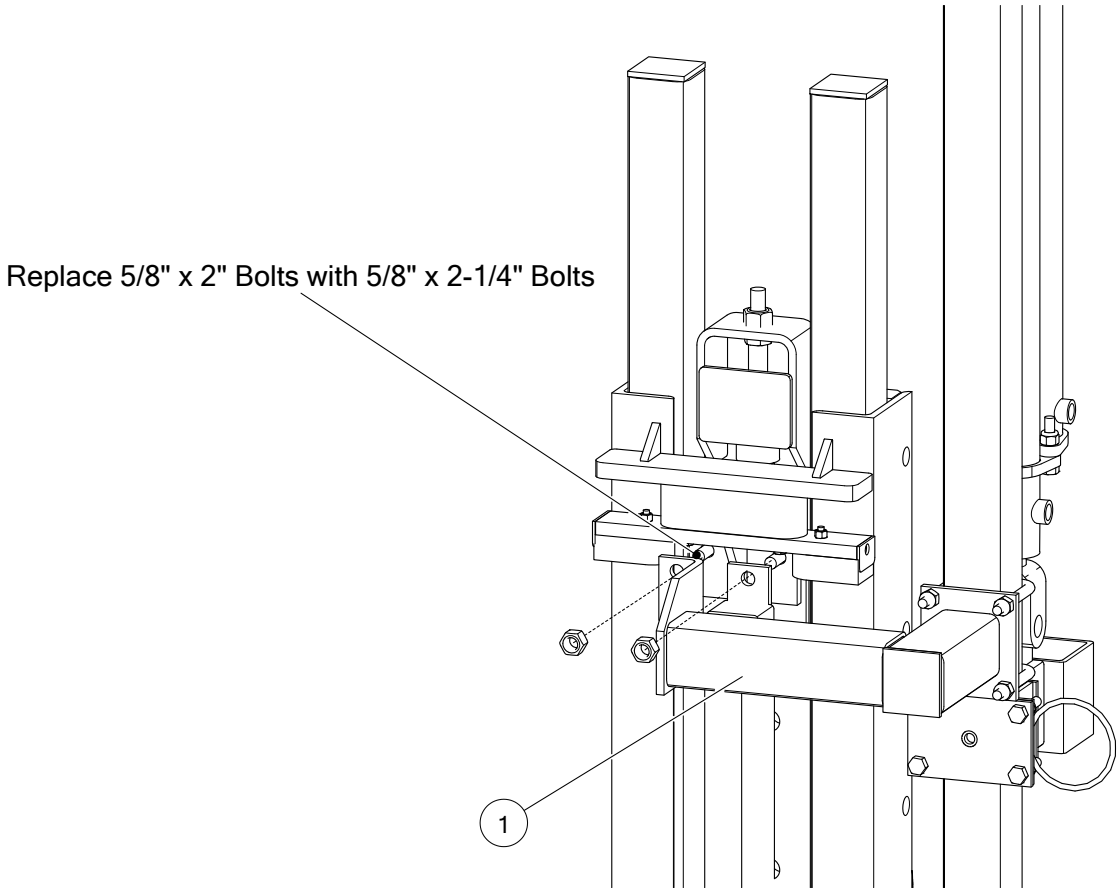


8. Slide the upper mount (1) of the pilot auger over the top two 5/8” x 2-1/4” bolts and secure using two 5/8” nylock nuts that was removed in Step 5. Tighten and torque the four 5/8” nylock nuts to the proper specifications. See Figure 8.

   Note

   If necessary, loosen the two u-bolts on the top mount of the 3” x 3” slider tube to help with installation.

Figure 8. Replacing Bolts on Stop Plate and Installing Upper Mount Plate

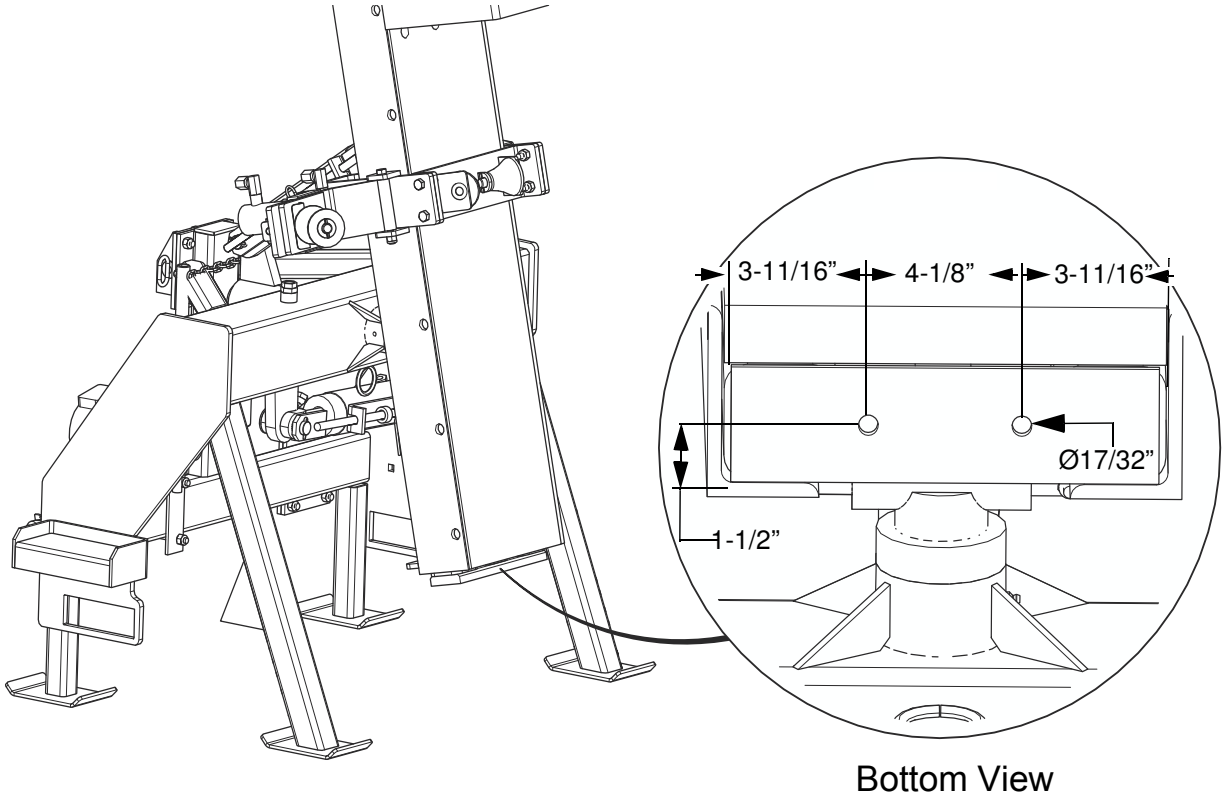


3.6.2 Center Mast Post Pounder Models

Important

Before you can install the pilot auger on any unit with a serial number previous to 203714, holes must first be drilled in the bottom of the mast plate. Refer to Figure 9 for dimensions. These holes will be used for mounting the pilot auger.

Figure 9. Hole Dimensions



1. Remove the eight 1/2” x 2” hex bolts that hold the hugger in place. See Figure 10.
2. Flip the hugger around so that it is mounted on the side of the mast closest to the valve body. Figure 11 shows the hugger assembly mounted closest to the valve body (opposite side).

Figure 10. Removing the Hugger

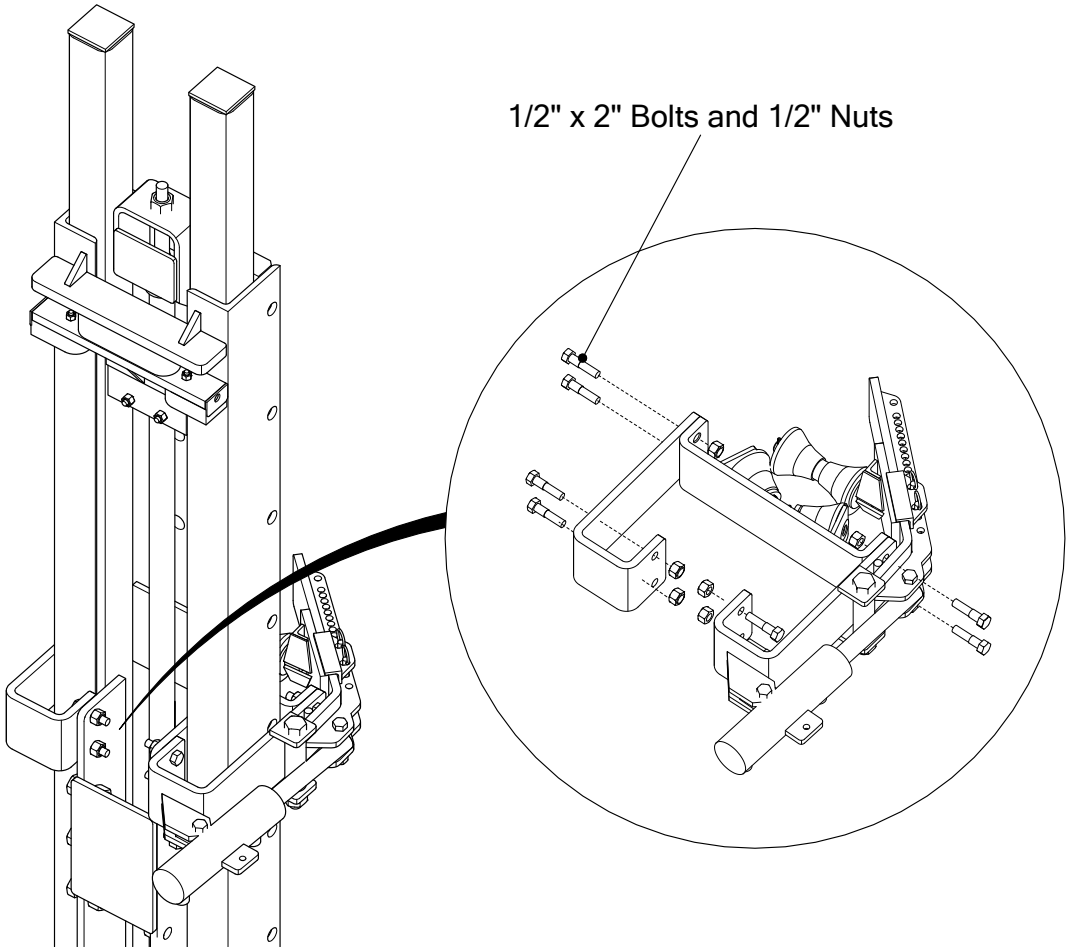
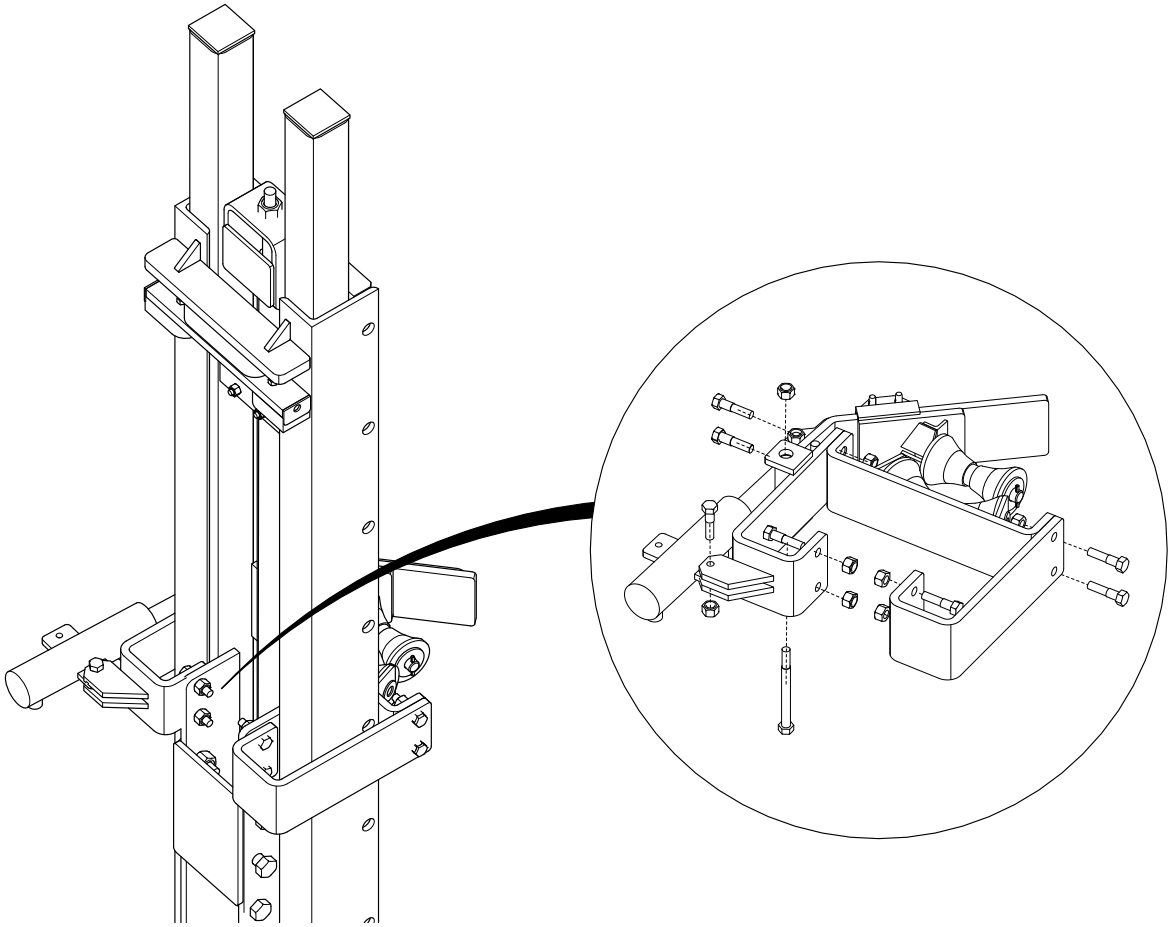


Figure 11. Replacing the Hugger



3. Install the upper (1) and lower (2) mount plates on the 3” x 3” slide tube (3) using two 1/2” x 3-1/8” x 1-1/8” u-bolts (4) for each (see Figure 12 and Figure 13).

Figure 12. Installing the Upper Mount Plate to the Slide Tube

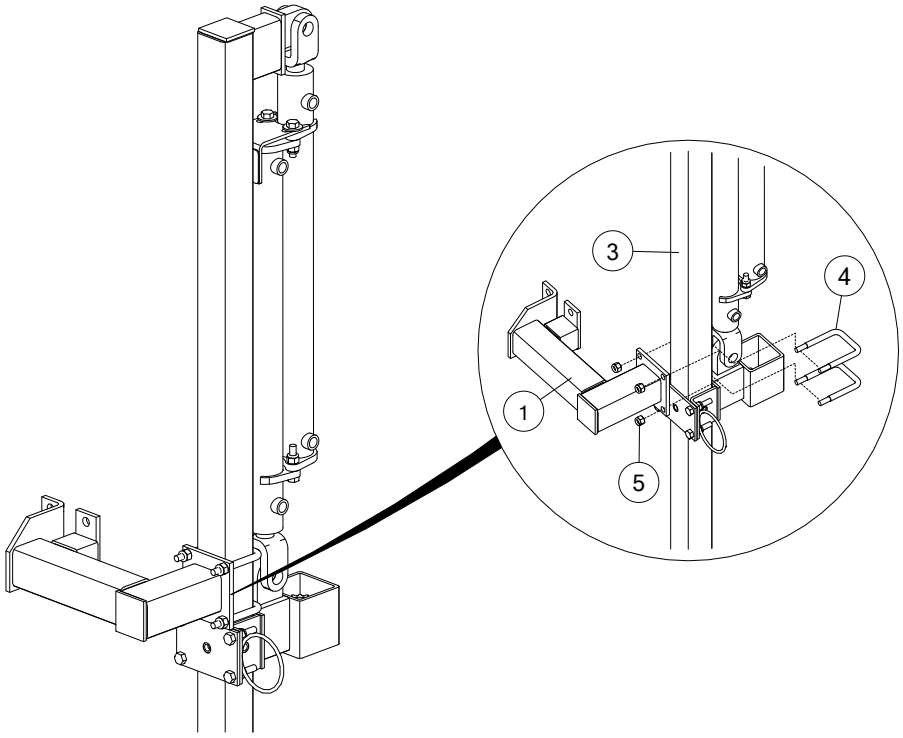


Figure 13. Installing the Lower Mount Plate to the Slide Tube

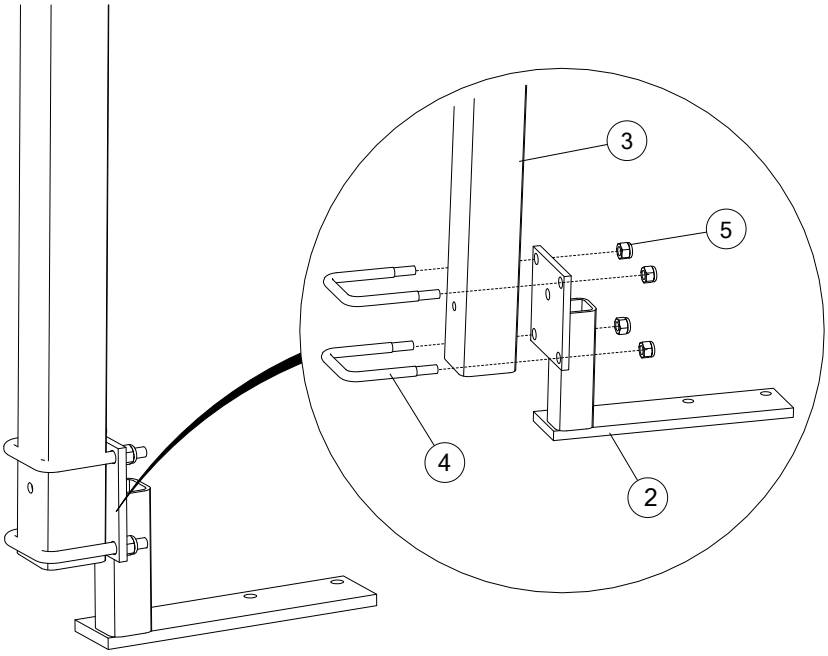
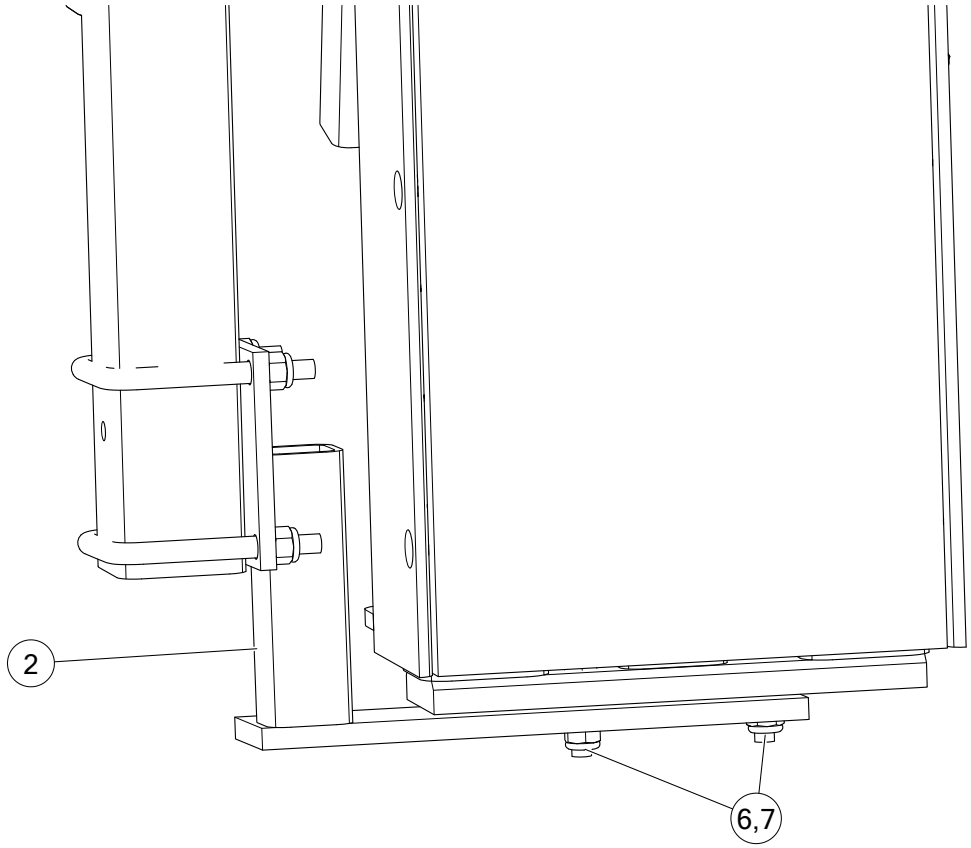


Table 4. Mount Tube and Mount Plate Components

Item	Description
1	Upper Mount
2	Lower Mount
3	Mount Tube Weldment
4	1/2” NC x 3-1/8” x 4-1/2” x 1-1/8” Bolt, Thd Gr5 PLTD U
5	1/2” Nylock Nut, UNC GR5 PLTD
6	1/2” x 2” Bolt, UNC Gr5
7	1/2” Nylock Nut, UNC Gr5 PLTD

4. Using the cylinder loop, lift the hammer up 12”-18” with a lifting device, using proper slings or chains. Block the hammer to ensure that it will not fall while installing the pilot auger.
5. Remove the two 5/8” x 2” bolts used to mount the stop plate, and replace with two 5/8” x 2-1/4” bolts. Do not install the nylock nuts. See Figure 15.
6. Hoist the pilot auger up and attach the lower mount (2) of the pilot auger using the holes shown in Figure 9, use two 1/2” x 2” UNC GR5 bolts (6) and nuts (7). The mount should be flush with the bottom of the 3” x 3” slider tube.

Figure 14. Installing Lower Mount Plate to the Mast

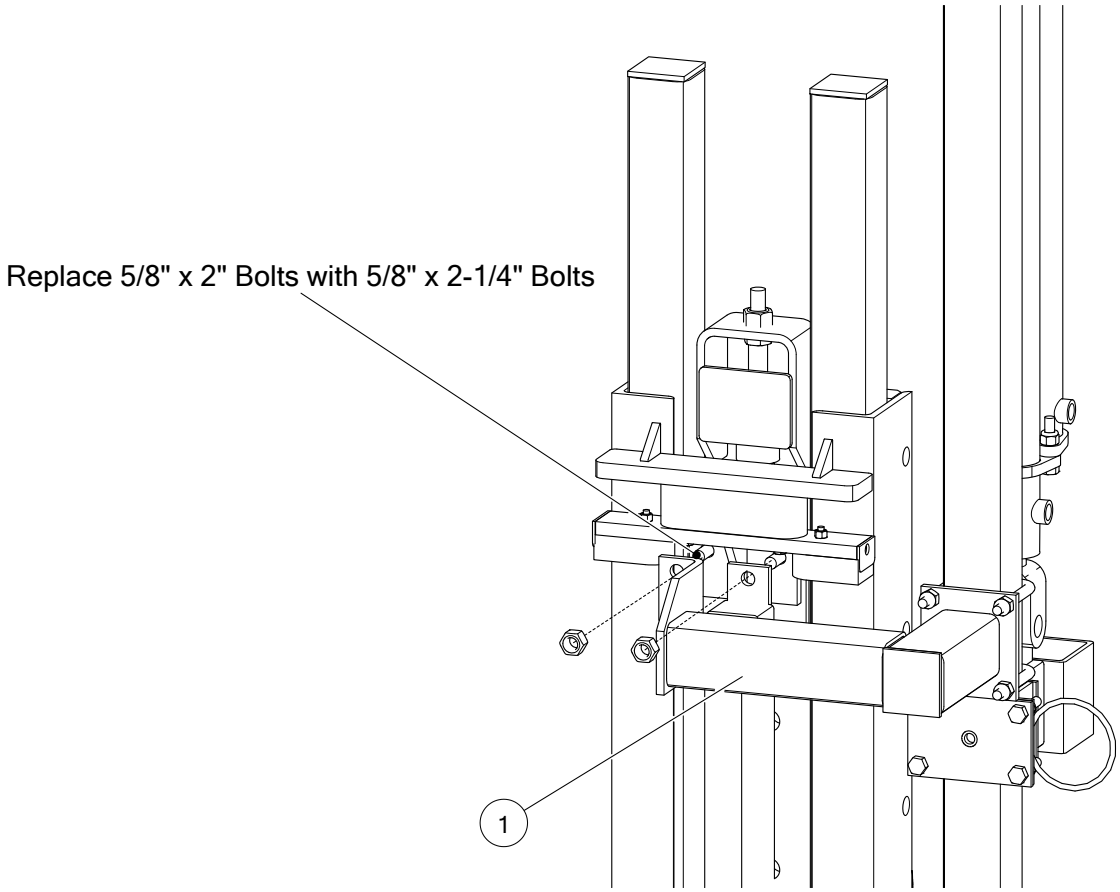


7. Slide the upper mount (1) of the pilot auger over the top two 5/8” x 2-1/4” bolts and secure using two 5/8” nylock nuts that was removed in Step 5. Tighten and torque the four 5/8” nylock nuts to the proper specifications. See Figure 15.

   Note

   If necessary, loosen the two u-bolts on the top mount of the 3” x 3” slider tube to help with installation.

Figure 15. Replacing Bolts on Stop Plate and Installing Upper Mount Plate



3.7. Installation of Fittings and Hoses

3.7.1 Side Mast Post Pounder Models

1. Mount the two-spool valve to the valve mount plate using two 5/16” x 2-1/2” bolts, nuts, and flat washers.
2. Remove the two 5/16” nuts that mount the existing valve, and position the 2-spool valve mount over the back. Replace the 5/16” nuts and tighten. See Figure 16.

Figure 16. Valve Mount Plate

3. Install all the hoses and fittings as per Figure 17 — Figure 18, and Table 5 — Table 6 depending on the Post Pounder Model.

Note

Place the 2 hoses that are attached to the motor through the hose holder before installing.

Figure 17. Pilot Auger Hydraulics, 3-Point Side Mast, Non Self-Contained

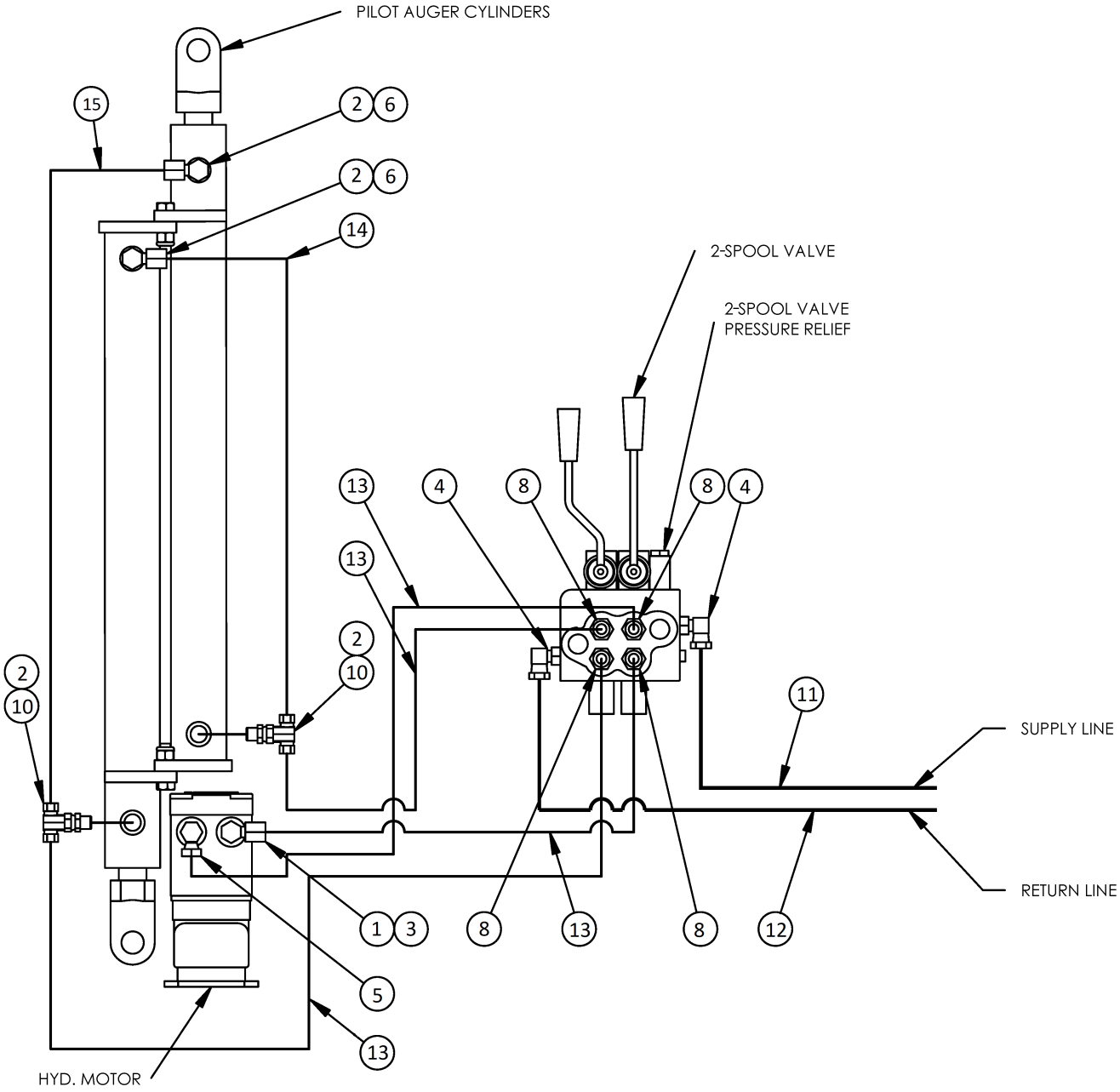


Table 5. Pilot Auger Hydraulics, 3-Point Side Mast, Non Self-Contained — Fittings and Hoses

Item	Part Number	Description	Quantity
1	9900204	FTG, STL, 10MORB X 1/2FNPSM	1
2	9900302	FTG, STL, 6MORB X 3/8FNPSM	4
3	9900330	FTG, STL, ELB, 1/2MNPT X 3/8FNPSM	1
4	9900096	FTG, STL, ELB, 10MORB X 1/2FNPSM	3
5	9900296	FTG, STL, ELB, 10MORB X 3/8FNPSM	1
6	9900284	FTG, STL, ELB, 3/8MNPT X 3/8FNPSM 1/16ORB	2
8	200326	FTG, STL, ELB45, 6MORB X 6MJIC	4
10	9900791	FTG, STL, TEE, 3/8F/M/FNPT	2
11	H12X192P	HOSE, HYD, 1/2 X 192, 1/2M/MPT	1
12	H12X196P	HOSE, HYD, 1/2 X 196, 1/2M/MPT	1
13	H38X144PJ	HOSE, HYD, 3/8 X 144, 6FJIC X 3/8MNPT	4
14	H38X21P	HOSE, HYD, 3/8 X 21, 3/8M/MNPT	1
15	H38X28P	HOSE, HYD, 3/8 X 28, 3/8M/MNPT	1

Figure 18. Pilot Auger Hydraulics, Trailer Side Mast, Self-Contained

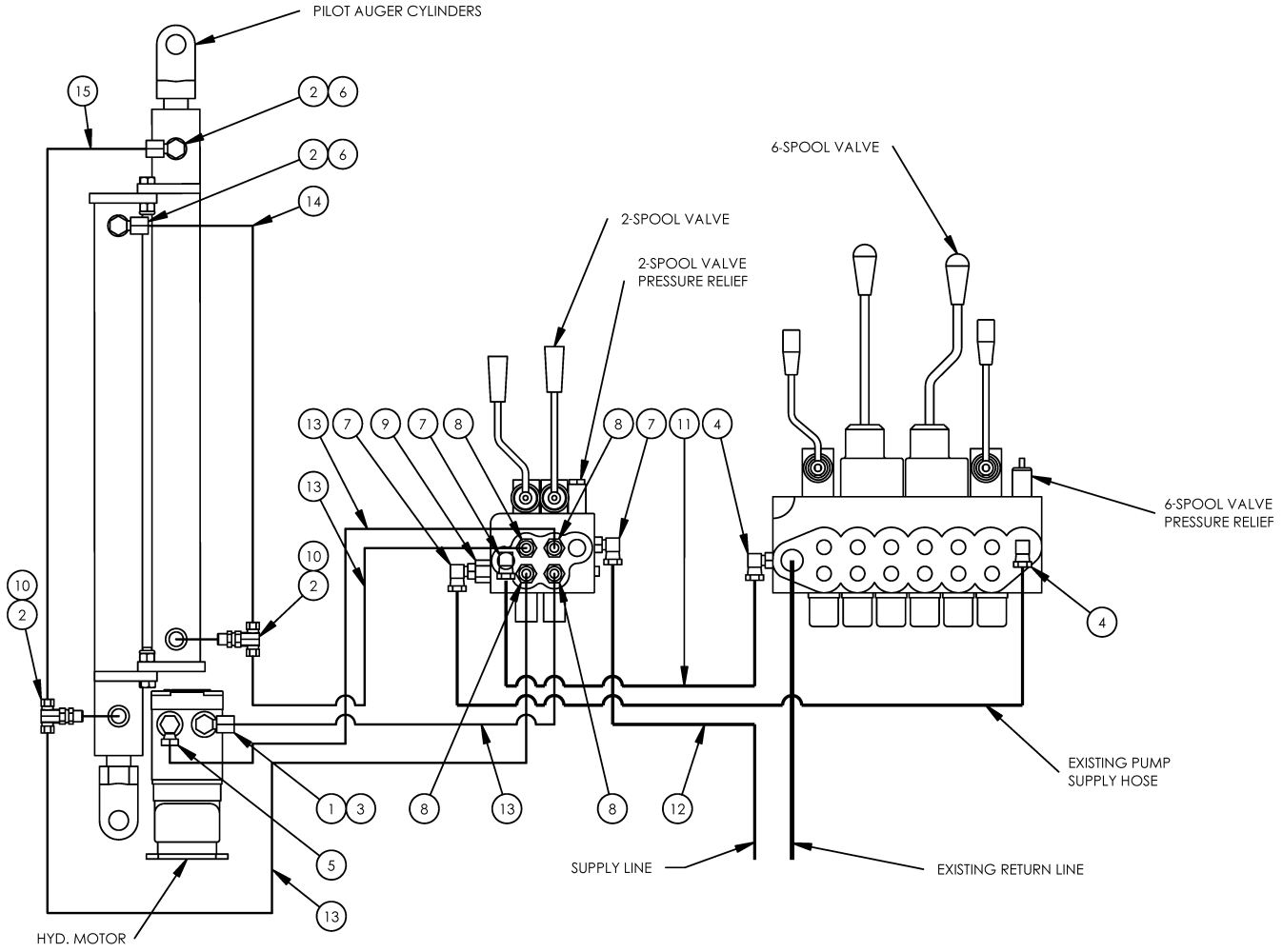


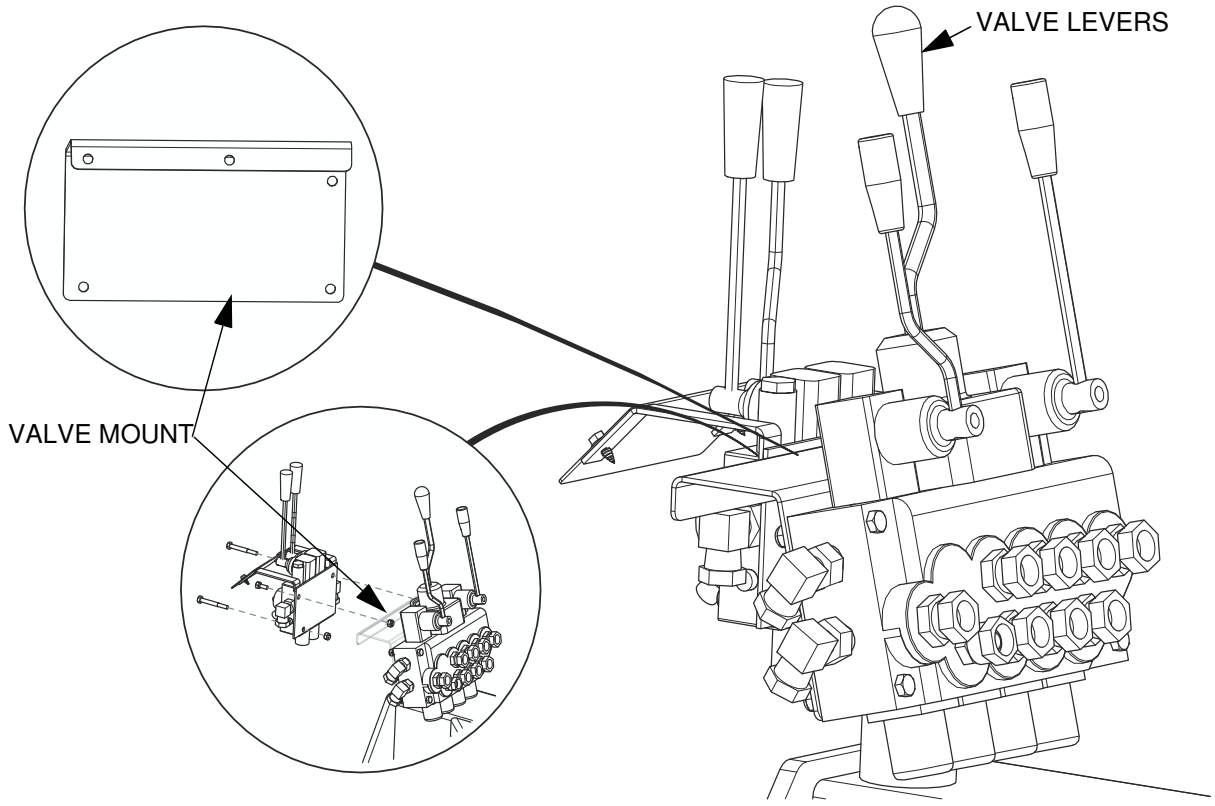
Table 6. Pilot Auger Hydraulics, Trailer Side Mast, Self-Contained — Fittings and Hoses

Item	Part Number	Description	Quantity
1	9900204	FTG, STL, 10MORB X 1/2FNPSM	1
2	9900302	FTG, STL, 6MORB X 3/8FNPSM	4
3	9900330	FTG, STL, ELB, 1/2MNPT X 3/8FNPSM	1
4	9900096	FTG, STL, ELB, 10MORB X 1/2FNPSM	3
5	9900296	FTG, STL, ELB, 10MORB X 3/8FNPSM	1
6	9900284	FTG, STL, ELB, 3/8MNPT X 3/8FNPSM 1/16OR	2
7	P0820010	FTG, STL, ELB, 8MORB X 1/2FNPSM	3
8	200326	FTG, STL, ELB45, 6MORB X 6MJIC	4
9	1600042	FTG, STL, POWER BEYOND FOR SD5	1
10	9900791	FTG, STL, TEE, 3/8F/M/FNPT	2
11	H12X18P	HOSE, HYD, 1/2 X 18, 1/2M/MNPT	1
12	H12X64P	HOSE, HYD, 1/2 X 64, 1/2M/MNPT	1
13	H38X144PJ	HOSE, HYD, 3/8 X 144, 6FJIC X 3/8MNPT	4
14	H38X21P	HOSE, HYD, 3/8 X 21, 3/8M/MNPT	1
15	H38X28P	HOSE, HYD, 3/8 X 28, 3/8M/MNPT	1

3.7.2 Center Mast Post Pounder Models

1. Fasten the two-spool valve to the valve mount using two 5/16” x 2-1/2” bolts and nuts. The valve levers should be sticking up through the arms of the valve mount (see Figure 19). Using the top left 5-1/6” x 2-1/2” bolt and a 5/16” x 3/4” bolt, fasten the two-spool valve to the back of the existing valve.

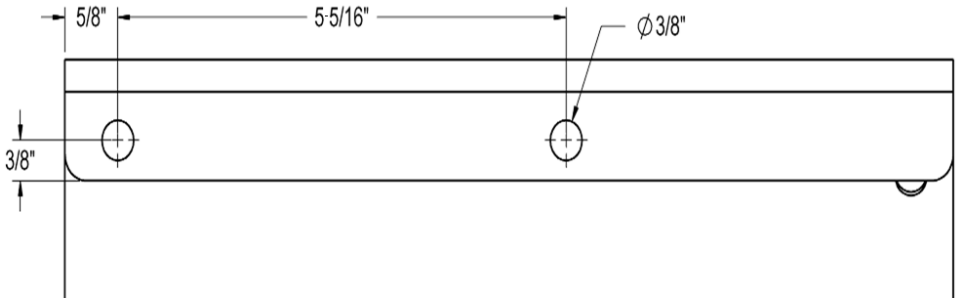
Figure 19. Valve Mount



Important

If there are no holes in the existing valve mount, they will need to be drilled as shown in Figure 20. As well, if the pounder is older than serial number 203714, a retrofit kit will be needed to move the valve mount back.

Figure 20. Holes for Valve Mount



2. Install the fittings and hoses as shown in Figure 21 and Table 7.

Important

Ensure that the valve controls match the operation decal. If not, the hoses may be improperly installed. Correct the problem before continuing.

Figure 21. Pilot Auger Hydraulics, 3–Point Center Mast

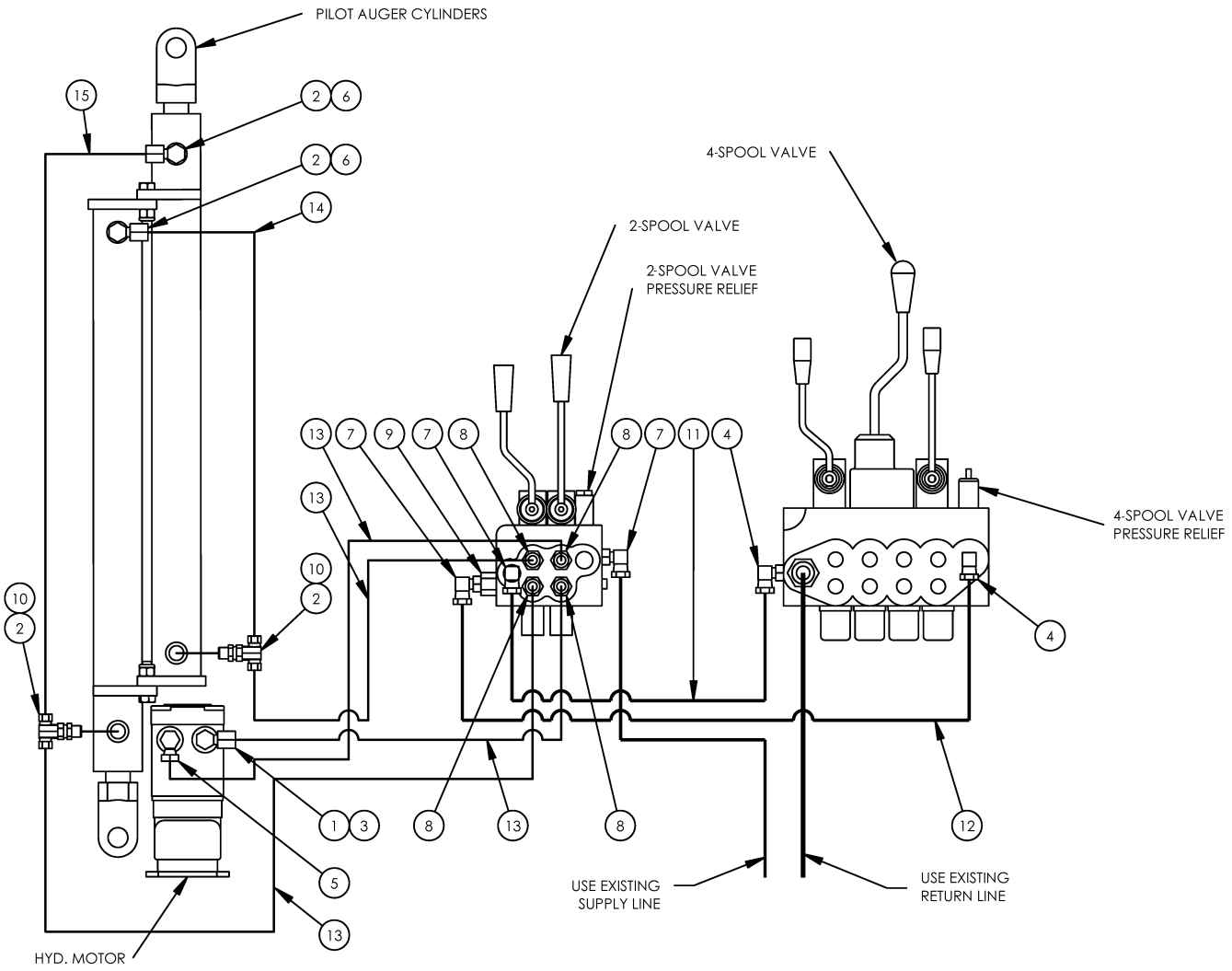


Table 7. Pilot Auger Hydraulics, 3–Point Center Mast — Fittings and Hoses

Item	Part Number	Description	Quantity
1	9900204	FTG, STL, 10MORB X 1/2FNPSM	1
2	9900302	FTG, STL, 6MORB X 3/8FNPSM	4
3	9900330	FTG, STL, ELB, 1/2MNPT X 3/8FNPSM	1
4	9900096	FTG, STL, ELB, 10MORB X 1/2FNPSM	2
5	9900296	FTG, STL, ELB, 10MORB X 3/8FNPSM	1
6	9900284	FTG, STL, ELB, 3/8MNPT X 3/8FNPSM 1/16ORB	2
7	P0820010	FTG, STL, ELB, 8MORB X 1/2FNPSM	3
8	200326	FTG, STL, ELB45, 6MORB X 6MJIC	4
9	1600042	FTG, STL, OWER BEYOND FOR SD5	1
10	9900791	FTG, STL, TEE, 3/8F/M/FNPT	2
11	H12X18P	HOSE, HYD, 1/2 X 18, 1/2M/MNPT	1
12	H12X24P	HOSE, HYD, 1/2 X 24, 1/2M/MNPT	1
13	H38X96PJ	HOSE, HYD, 3/8 X 96, 6FJIC X 3/8MNPT	4
14	H38X21P	HOSE, HYD, 3/8 X 21, 3/8M/MNPT	1
15	H38X28P	HOSE, HYD, 3/8 X 28, 3/8M/MNPT	1

3.8. Setting the Relief Valves

To set the pressure required to operate the pilot auger, the relief valve on the controls will need to be adjusted.

⚠ CAUTION DO NOT set the pressure too high, as damage to the equipment or injury may result.

Ensure that the pressure does NOT exceed 2300 psi.

Table 8. Two-Spool Valve Configuration

Pounder Valve Configuration		2-Spool Valve	
		Valve in Series with Pounder Valve	Valve to Tractor
Side Mast	PTO Trailer	n/a	✓
	Gas Trailer	✓	n/a
	PTO 3 Pt.	n/a	✓
Center Mast	Skid Steer — Self-Contained	n/a	n/a
	Skid Steer — Non-Self-Contained	✓	n/a
	3 Pt. — Self-Contained	n/a	✓
	3 Pt. — Non-Self-Contained	✓	✓

3.8.1 2–Spool valve in series with the pounder valve

When the 2-spool valve is in series with the pounder valve (Table 8), adjust the relief valve on the 2-spool valve to its maximum setting. To adjust the relief valve on the 2–spool valve:

1. Loosen the nut with a 1/2” wrench.
2. Using a 5/32” Allen wrench, turn the set screw all the way in (clockwise).
3. Retighten the nut.

This makes the relief valve on the main valve the master relief valve.

If the pilot auger seems to be continuously stalling, the pressure may need to be increased on the main controls.

1. Loosen the nut and turn the set screw 1/8 of a turn clockwise.
2. Retighten the nut.
3. Repeat until auger operates as desired.

3.8.2 2–Spool valve hooks directly to the tractor

For the models where the 2-spool valve hooks directly to the tractor (Table 8), the pilot auger controls are independent of the main controls. This means that the relief valve for the pilot auger should be set independently.

3.9. Powerhead Assembly

1. Install the motor (1) on top of the powerhead base (2) using four 3/8” x 1” bolts (3) and 3/8” lock washers (4). See Figure 22.
2. With the spindle, hub, bearings, seal, washer, castle nut, cotter pin, and key assembled, slide the sprocket (9a) all the way onto the spindle (5), then use Loctite or equivalent to tighten the set screw.
3. Connect the two sprockets (9, 9a) with the connector chain (8) and secure with connecting link.
4. Align the sprocket (9) with the key (6) in the hydraulic motor and slide the two assemblies together.

   Note

   Ensure that the key does not fall out when assembling.

5. Install and tighten the three 1/2” x 1” bolts (7) and 1/2” lock washers (10).

Figure 22. Powerhead Assembly

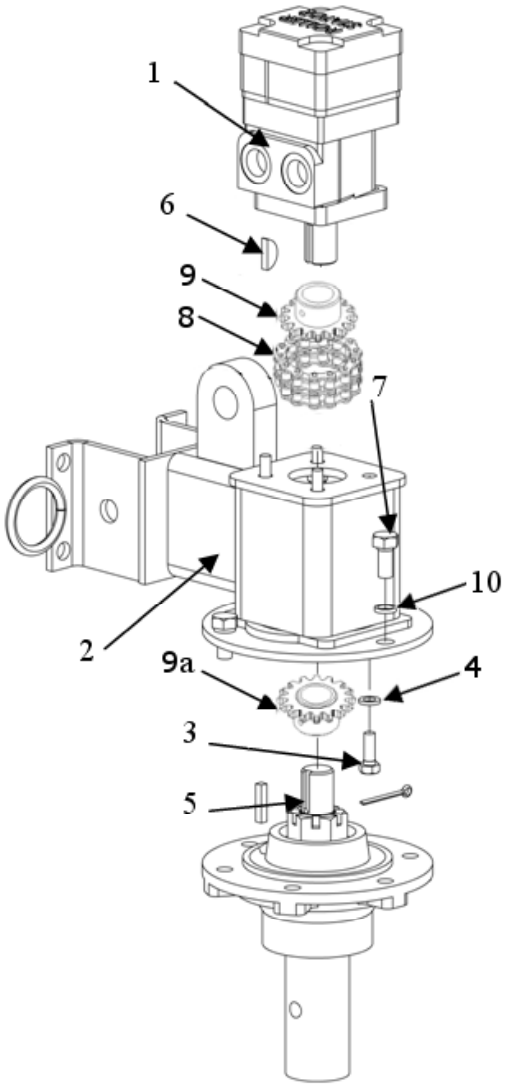


Table 9. Powerhead Components

Item	Description
1	Hydraulic Motor 10.0, 3000PSI, 10 ORBØ1, Key
2	Powerhead Base
3	3/8” X 1” Hex Bolt UNC Gr5 PLT
4	3/8” Lock Washer PLTD
5	Spindle, Pilot Auger, MOD 611
6	1/4” X 1” Woodruff Key
7	1/2” x 1” UNF Bolt
8	Connector Chain
9, 9a	Sprocket, W/Hub, #40 16T, 1, Key
10	1/2” Lock Washer PLTD

3.10. Auger Assembly

1. Using three 1/2” x 1” bolts (1) and three 1/2” lock washers (2), install the bolt guard mount (3) to the bottom of the hub on the powerhead. (The bolts are threaded into the bottom of the hub through the remaining three holes.) See Figure 23.
2. Slide the plastic bolt guard (4) with the small end down over the top of the auger.
3. Using a 1/2” x 3-1/2” bolt (5) and nut (6), mount the auger (12) to the spindle. The bit head (8) is attached to the bottom of the auger using a 1/2” x 3” bolt (7) and nut (6).

Figure 23. Auger Assembly

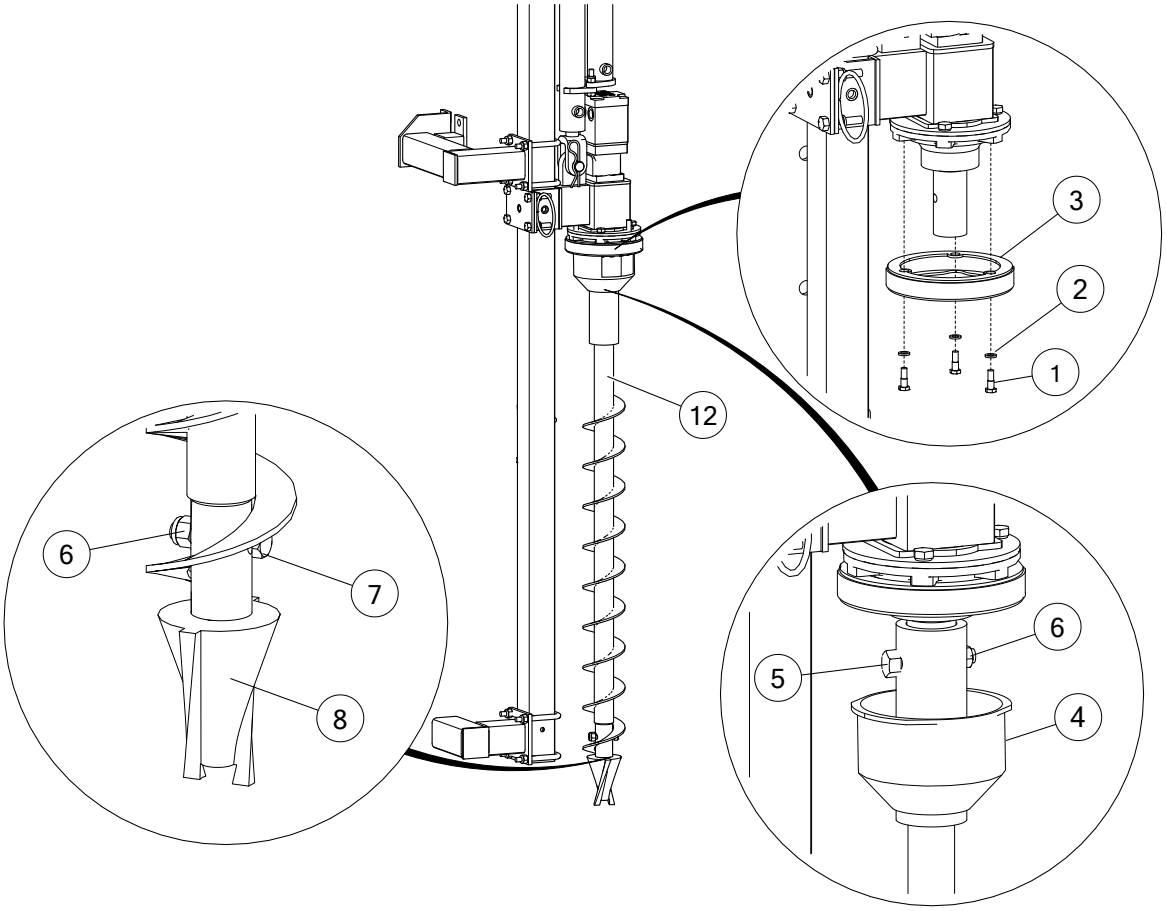


Table 10. Auger Assembly Components

Item	Description
1	1/2” x 1” Bolt UNF GR5
2	1/2” Lock Washer
3	Bolt Guard Mount
4	Bolt Guard
5	1/2” x 3-1/2” Bolt UNC GR5 PLT
6	1/2” Nylock Nut UNC PLT
7	• **For 6” auger** – 1/2” x 3” Bolt UNC GR 5 • **For 4” auger** – 1/2” x 2-1/2” Bolt UNC GR 5
8	Bit Head
9	Stabilizer
10	3/8” x 4-3/8” Pin
11	1/8” x 7/16” X 3/4” x 2-9/16” Hairpin
12	Pilot Auger Bit

4. Place the lip of the plastic bolt guard (4) through the bottom of the bolt guard mount (3), then twist the other lip of the plastic guard (4) in through the slot in the bolt guard mount (3). A screwdriver may be necessary to pry the guard.
5. Slide the auger stabilizer (9) though the bottom of the 3” x 3” slider tube, then insert the bent pin (10) and a hairpin (11).

Figure 24. Auger Stabilizer Assembly (Side Mast)

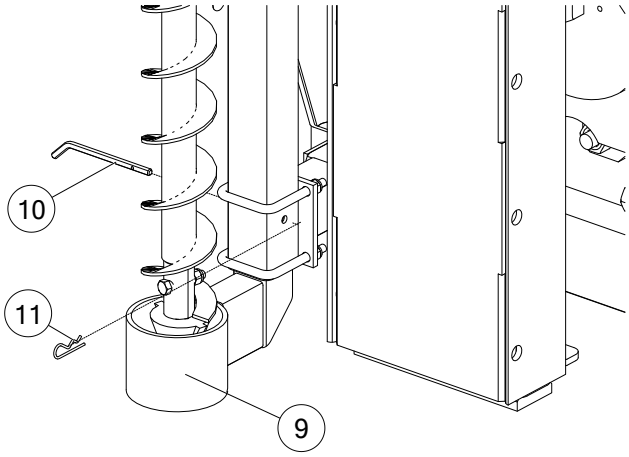
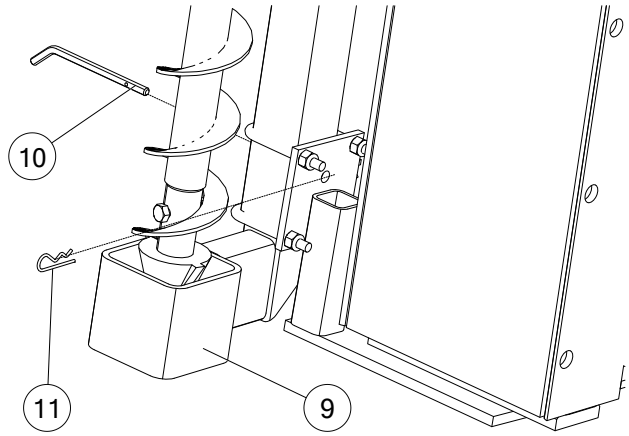


Figure 25. Auger Stabilizer Assembly (Center Mast)



3.11. Counterweight Installation

➡ **For Renegade and Renegade Plus**:

1. Center the counterweight (1) on the post bin (see Figure 26). Center mark and drill two 5/8” holes in the post bin, located at the slots on the counter-weight.
2. Using two 5/8” x 3” bolts (2) with washers (3) and nuts (4), secure the counterweight to the post bin.

Figure 26. Counterweight

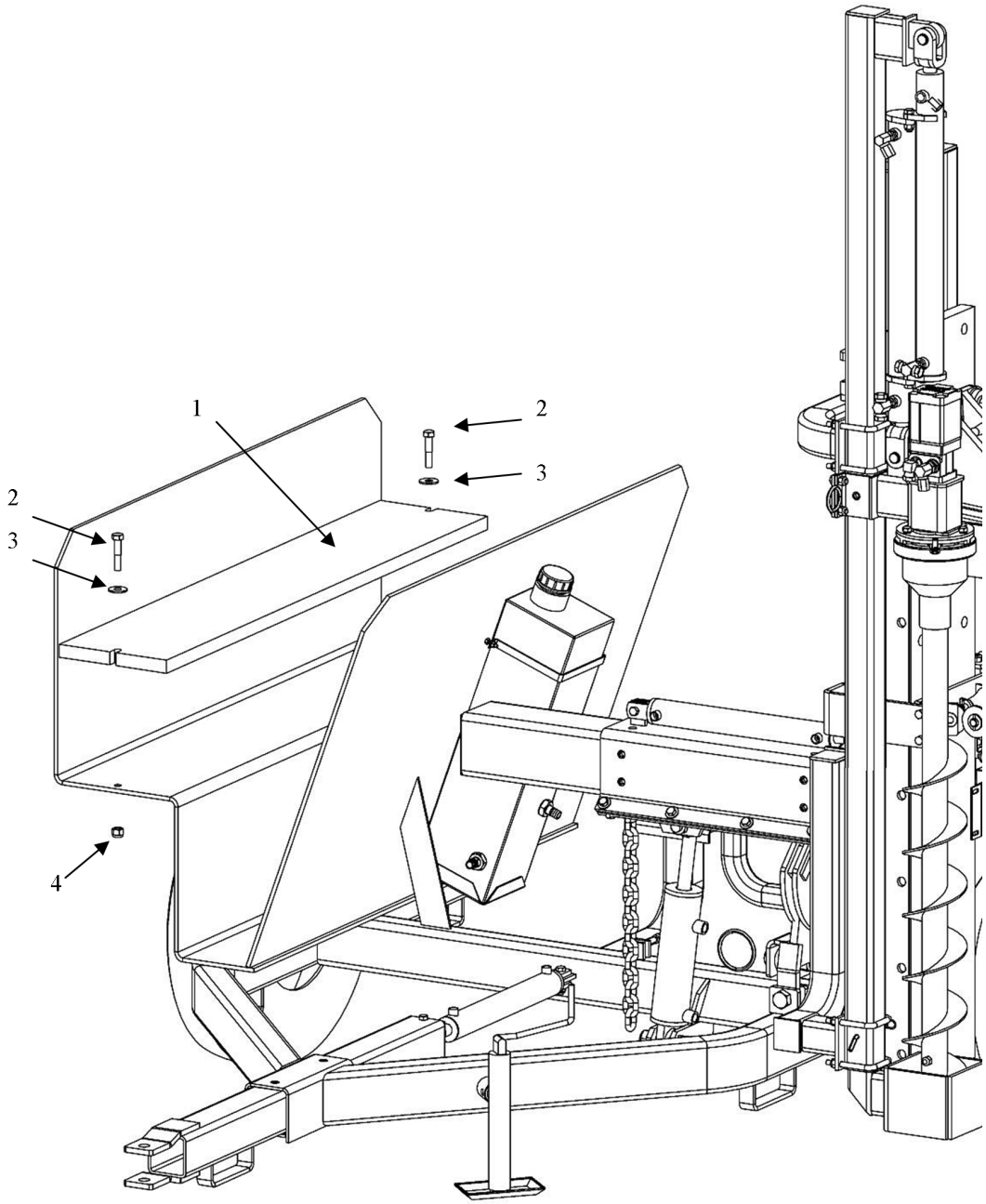


Table 11. Counterweight

Item	Description
1	Counterweight
2	5/8” x 3” Bolt, UNC GR5
3	5/8” Washer
4	5/8” Nut

4. Specifications

	PILOT AUGER BIT	
	4" / 10 cm	**6" / 15 cm**
Weight	40 lbs (18 kg)	57 lbs (26 kg)
Length	54" / 137 cm	54" / 137 cm
Carbide Teeth #	5	7
Flighting Thickness	3/8" / 9.5 mm	3/8" / 9.5 mm

5. Appendix

5.1. Bolt Torque

Table 12 gives the correct torque values for various hardware. Tighten all bolts to the torque specified, unless otherwise noted. Check tightness periodically, using Table 12 as a guide. Replace the hardware with the same strength bolt, contact Wheatheart if you are unsure.

Table 12. Recommended Bolt Torque[1]

Size	Dry or Lubricated	Threads per inch (Course/ Fine)	Area of Bolt (sq in.)		Recommended Torque (ft-lb)							
					Grade 2		Grade 5		Grade 8		8.8 S/S	
			Coarse	Fine	Coarse	Fine	Coarse	Fine	Coarse	Fine	Coarse	Fine
1/4"	Dry	20/28	0.0318	0.0364	5.5	6.3	8	10	12	14	6.3	7.8
	Lubricated				6.3	4.7	6.3	7.2	9	10	-	-
5/16"	Dry	18/24	0.0524	0.058	11	12	17	19	24	27	11	11.8
	Lubricated				8	9	13	14	18	20	-	-
3/8"	Dry	16/24	0.0775	0.0878	20	23	30	35	45	50	20	22
	Lubricated				15	17	23	25	35	35	-	-
7/16"	Dry	14/20	0.1063	0.1187	32	36	50	55	70	80	31	33
	Lubricated				24	27	35	40	50	80	-	-
1/2"	Dry	13/20	0.1419	0.1599	50	55	75	85	110	120	43	45
	Lubricated				35	40	55	65	80	90	-	-
9/16"	Dry	12/18	0.182	0.203	70	80	110	120	150	170	57	63
	Lubricated				55	60	80	90	110	130	-	-
5/8"	Dry	11/18	0.226	0.256	100	110	150	170	210	240	93	104
	Lubricated				75	85	110	130	160	180	-	-
3/4"	Dry	10/16	0.334	0.373	175	200	260	300	380	420	128	124
	Lubricated				130	140	200	220	280	310	-	-
7/8"	Dry	9/14	0.462	0.508	170	180	430	470	600	670	194	193
	Lubricated				125	140	320	350	180	180	-	-
1"	Dry	8/14	0.606	0.679	250	280	640	720	910	1020	287	289
	Lubricated				190	210	480	540	680	760	-	-
1-1/8"	Dry	7/12	0.763	0.856	350	400	790	890	1290	1440	288	290
	Lubricated				270	300	590	670	970	1080	-	-
1-1/4"	Dry	7/12	0.989	1.073	500	550	1120	1240	1820	2010	289	291
	Lubricated				380	420	840	930	1360	1510	-	-
1-1/2"	Dry	6/12	1.405	1.581	870	960	1950	2200	3160	3560	-	-
	Lubricated				650	730	1460	1640	2370	2670	-	-

1. Torque value for bolts and cap screws are identified by their head markings. Established at 75% of yield strength of bolt given the cross-sectional area.

Note

Torque figures in table are valid for non-greased or non-oiled threads and head unless otherwise specified. Therefore, do not grease or oil bolts or cap screws unless otherwise specified in this manual. When using locking elements, increase torque values by 5%.

5.2. Fittings Torque Values

These specifications are for carbon steel. With Zinc plating always lubricate threads and seals. For stainless steel, use the high value of the torque range of steel. For brass, use 70% of the torque value of steel. For mixed metals, use the torque of the lower of the two metals. Torque range is normally calculated +/- 10%.

Table 13. Pipe Rigid - Tapered Pipe Threads (NPTF, N/NF) - Carbon Steel

Pipe Size	Turns-from-finger	Max ft-lbs	Max N-m
1/8" (-2)	3/4 - 1 3/4	12	16
1/4" (-4)	3/4 - 1 3/4	25	34
3/8" (-6)	3/4 - 1 3/4	40	54
1/2" (-8)	1/2 - 1 1/2	54	73
3/4" (-12)	1/2 - 1 1/2	78	106
1" (-16)	1/2 - 1 1/2	112	152
1 1/4" (-20)	1/2 - 1 1/2	154	209
1 1/2" (-24)	1/2 - 1 1/2	211	286
2" (-32)	1/2 - 1 1/2	300	407

Table 14. Pipe Swivel - Straight Pipe Threads (NPSM, N/NFS) - Carbon Steel

Pipe Size	Max ft-lbs	Max N-m
1/8" (-2)	12	16
1/4" (-4)	25	3
3/8" (-6)	40	54
1/2" (-8)	54	73
3/4" (-12)	78	106
1" (-16)	112	152
1 1/4" (-20)	154	209
1 1/2" (-24)	211	286
2" (-32)	300	407
Note: seals on an internal male 30° seat		

Table 15. Stud End O-Ring Boss (ORB) SAE (U/UF) – Carbon Steel

Tube Size	Thread UNF-2A	Max ft-lbs	Max N-m
-2	5/16" - 24	6-7	8-9
-3	3/8" - 24	8-9	11-12
-4	7/16" - 20	13-15	18-20
-5	1/2" - 20	17-19	23-26

Table 15 Stud End O-Ring Boss (ORB) SAE (U/UF) – Carbon Steel (continued)

Tube Size	Thread UNF-2A	Max ft-lbs	Max N-m
-6	9/16" - 18	22-24	29-33
-8	3/4" - 16	40-43	49-53
-10	7/8" - 14	43-48	59-64
-12	1 1'16" - 12	68-75	93-102
-14	1 3/16" - 12	90-99	122-134
-16	1 5/16" - 12	112-123	151-166
-20	1 5/8" - 12	146-161	198-218
-24	1 7/8" - 12	154-170	209-231

Table 16. JIC 37° Flare Tube Fitting (J/JFS)

Tube Size	Thread UNF-2A	Torque ft-lbs	Torque N-m
-2	5/16 - 24	6-7	8-9
-3	3/8 - 24	8-9	11-12
-4	7/16 - 20	11-12	15-16
-5	1/2 - 20	14-15	19-21
-6	9/16 - 18	18-20	24-28
-8	3/4 - 16	36-39	49-53
-10	7/8 - 14	57-63	77-85
-12	1 1/16 - 12	79-88	107-119
-14	1 3/16 - 12	94-103	127-140
-16	1 5/16 - 12	108-113	147-154
-20	1 5/8 - 12	127-133	172-181
-24	1 7/8 - 12	158-167	215-226
-32	2 1/2 - 12	245-258	332-350

6. Limited Warranty

This warranty relates to Post Pounders (the "Product") sold by AGI (referred to herein as the "Seller") and applies only to the first user of the Product (meaning a purchaser directly from the Seller or from an authorized dealer or distributor of the Product, referred to herein as the "Buyer").

This warranty shall only be effective if properly registered with the Seller in accordance with information provided to the Buyer at the time of sale.

1. The Seller warrants to the Buyer that the Product is free from defects in material and workmanship **under normal and reasonable use** and in accordance with manufacturer's manual.
2. This warranty applies only to defects in materials and workmanship and not to damage incurred in shipping or handling, through normal wear and tear, or damage due to causes beyond the control of the Seller such as lightning, fire, flood, wind, earthquake, excessive voltage, mechanical shock, water damage, or damage arising out of abuse, alteration, improper assembly, improper installation, improper maintenance or improper repair of the Product.
3. **The warranty period for the Product shall be two years from delivery of the Product to the Buyer where the Product is used in a normal farm operation. First year of warranty coverage of parts and repair labour, second year warranty coverage of parts only. Warranty period for the Product shall be 90 days from delivery of the Product to the Buyer where the Product is used in a commercial operation.** In the event that any part incorporated into the Product is manufactured and sold to the Seller by a third party vendor, such part is only warranted to the extent of the warranty given by that third party.
4. This warranty does not obligate the Seller to bear costs of travel in replacing defective parts.
5. The obligations set forth in this warranty are conditional upon the Buyer promptly notifying the Seller of any defect and completing reasonably required documentation and, if required, promptly making the Product available for correction.
6. The total liability of the Seller on any claim, whether in contract, tort or otherwise, arising out of, connected with, or resulting from the manufacture, sale, delivery, repair, replacement or use of the Product or any part thereof **shall not exceed the price paid for the Product** and the Seller shall not be liable for any special indirect, incidental or consequential damages caused by reason of the installation, modification, use, repair, maintenance or mechanical failure of the Product. **Consequential or special damages as used herein include, but are not limited to, lost or damaged products or goods, costs of transportation, lost sales, lost orders, lost income, increased overhead, labor and incidental costs and operational inefficiencies.**
7. The foregoing warranty is the entire warranty of the Seller to the Buyer and the Buyer shall not be entitled to rely upon any representation or warranty contained in any marketing material of the Seller in respect of the Product. The Seller neither assumes, nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning the Product.

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201 Industrial Drive, Swift Current
Saskatchewan S9H 5R4, CANADA
Phone: (877) 667-7421 (Canada & USA)
or (306) 773-7779
Fax: (306) 778-2524

Email: sales@batco-rem.com
Website: www.aggrowth.com

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