CONGRATULATIONS!

You have invested in the best implement of its type on the market today.

The care you give your Bush Hog implement will greatly determine your satisfaction with its performance and its service life. We urge a careful study of this manual to provide you with a thorough understanding of your new implement before operating, as well as suggestions for operation and maintenance.

If your manual should become lost or destroyed, Bush Hog will be glad to provide you with a new copy. Order from Bush Hog, P. O. Box 1039, Selma, Alabama 36702-1039.

As an authorized Bush Hog dealer, we stock genuine Bush Hog parts which are manufactured with the same precision and skill as our original equipment. Our trained service personnel are well informed on methods required to service Bush Hog equipment, and are ready and able to help you.

Should you require additional information or assistance, please contact us.

YOUR AUTHORIZED
BUSH HOG DEALER

BECAUSE BUSH HOG MAINTAINS AN ONGOING PROGRAM OF PRODUCT IMPROVEMENT, WE RESERVE THE RIGHT TO MAKE IMPROVEMENTS IN DESIGN OR CHANGES IN SPECIFICATIONS WITHOUT INCURRING ANY OBLIGATION TO INSTALL THEM ON UNITS PREVIOUSLY SOLD.

BECAUSE OF THE POSSIBILITY THAT SOME PHOTOGRAPHS IN THIS MANUAL WERE TAKEN OF PROTOTYPE MODELS, PRODUCTION MODELS MAY VARY IN SOME DETAIL. IN ADDITION, SOME PHOTOGRAPHS MAY SHOW SHIELDS REMOVED FOR PURPOSES OF CLARITY. NEVER OPERATE THIS IMPLEMENT WITHOUT ALL SHIELDS IN PLACE.
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RETAIL CUSTOMER’S RESPONSIBILITY UNDER THE BUSH HOG WARRANTY

It is the Retail Customer and/or Operator’s responsibility to read the Operator’s Manual, to operate, lubricate, maintain and store the product in accordance with all instructions and safety procedures. Failure of the operator to read the Operator’s Manual is a misuse of this equipment.

It is the Retail Customer and/or Operator’s responsibility to inspect the product and to have any part(s) repaired or replaced when continued operation would cause damage or excessive wear to other parts or cause a safety hazard.

It is the Retail Customer’s responsibility to deliver the product to the authorized Bush Hog Dealer, from whom he purchased it, for service or replacement of defective parts which are covered by warranty. Repairs to be submitted for warranty consideration must be made within forty-five (45) days of failure.

It is the Retail Customer’s responsibility for any cost incurred by the Dealer for traveling to or hauling of the product for the purpose of performing a warranty obligation or inspection.
LIMITED WARRANTY

Bush Hog warrants to the original purchaser of any new Bush Hog equipment, purchased from an authorized Bush Hog dealer, that the equipment be free from defects in material and workmanship for a period of one (1) year for non-commercial, state, and municipalities’ use and ninety (90) days for commercial use from date of retail sale. The obligation of Bush Hog to the purchaser under this warranty is limited to the repair or replacement of defective parts.

Replacement or repair parts installed in the equipment covered by this limited warranty are warranted for ninety (90) days from the date of purchase of such part or to the expiration of the applicable new equipment warranty period, whichever occurs later. Warranted parts shall be provided at no cost to the user at an authorized Bush Hog dealer during regular working hours. Bush Hog reserves the right to inspect any equipment or parts which are claimed to have been defective in material or workmanship.

DISCLAIMER OF IMPLIED WARRANTIES & CONSEQUENTIAL DAMAGES

Bush Hog’s obligation under this limited warranty, to the extent allowed by law, is in lieu of all warranties, implied or expressed, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE and any liability for incidental and consequential damages with respect to the sale or use of the items warranted. Such incidental and consequential damages shall include but not be limited to: transportation charges other than normal freight charges; cost of installation other than cost approved by Bush Hog; duty; taxes; charges for normal service or adjustment; loss of crops or any other loss of income; rental of substitute equipment, expenses due to loss, damage, detention or delay in the delivery of equipment or parts resulting from acts beyond the control of Bush Hog.

THIS LIMITED WARRANTY SHALL NOT APPLY:

1. To vendor items which carry their own warranties, such as engines, tires, and tubes.
2. If the unit has been subjected to misapplication, abuse, misuse, negligence, fire or other accident.
3. If parts not made or supplied by Bush Hog have been used in connection with the unit, if, in the sole judgement of Bush Hog such use affects its performance, stability or reliability.
4. If the unit has been altered or repaired outside of an authorized Bush Hog dealership in a manner which, in the sole judgement of Bush Hog, affects its performance, stability or reliability.
5. To normal maintenance service and normal replacement items such as gearbox lubricant, hydraulic fluid, worn blades, or to normal deterioration of such things as belts and exterior finish due to use or exposure.
6. To expendable or wear items such as teeth, chains, sprockets, belts, springs and any other items that in the company’s sole judgement is a wear item.

NO EMPLOYEE OR REPRESENTATIVE OF BUSH HOG IS AUTHORIZED TO CHANGE THIS LIMITED WARRANTY IN ANY WAY OR GRANT ANY OTHER WARRANTY UNLESS SUCH CHANGE IS MADE IN WRITING AND SIGNED BY BUSH HOG’S SERVICE MANAGER, POST OFFICE BOX 1039, SELMA, ALABAMA 36702-1039.

Record the model number, serial number and date purchased. This information will be helpful to your dealer if parts or service are required.

MODEL NUMBER ______________________

SERIAL NUMBER ______________________

DATE OF RETAIL SALE ______________________
DEALER PREPARATION CHECK LIST

Post Hole Diggers

BEFORE DELIVERING MACHINE - The following check list should be completed. Use the Operator’s Manual as a guide.

☐ Assembly completed
☐ Gear box filled with oil
☐ All safety decals readable (See decal page)
☐ All bolts tight to Torque Specifications given on torque chart
☐ Operator’s manual has been delivered to owner and he has been instructed on the safe and proper use of the post hole digger.

Dealer’s Signature __________________________________________

Purchaser’s Signature __________________________________________

THIS CHECK LIST TO REMAIN IN OPERATOR’S MANUAL

It is the responsibility of the dealer to complete the procedure above before delivery of this implement to the customer.
IMPORTANT SAFETY PRECAUTIONS

This symbol is used to call attention to safety precautions that should be followed by the operator to avoid accidents. When you see this symbol, carefully read the message that follows and heed its advice. Failure to comply with safety precautions could result in serious bodily injury.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel in the operation, transport, maintenance and storage of equipment. Lack of attention to safety can result in accident, personal injury, reduction of efficiency and worst of all—loss of life. Watch for safety hazards and correct deficiencies promptly. Use the following safety precautions as a general guide to safe operations when using this machine. Additional safety precautions are used throughout this manual for specific operating and maintenance procedures. Read this manual and review the safety precautions often until you know the limitations.

THE TRACTOR

1. Read the tractor operator’s manual to learn how to operate your tractor safely. Failure to do so could result in serious injury or death and equipment damage.

2. It is recommended that tractor be equipped with Rollover Protective System (ROPS) and a seat belt be used for all PHD operations.

3. Add wheel ballast for stability.

4. Move wheels to the tractor manufacturer’s widest recommended settings to increase stability.

5. Stop tractor engine, place transmission in park (or neutral), engage parking brake, lower post hole digger to ground, cycle all hydraulic controls to relieve pressure, allow machine moving parts to stop, remove ignition key to prevent unauthorized person from starting engine before dismounting tractor or servicing, repairing, or making adjustments to the equipment.

6. Wear personal protective equipment (PPE), such as, but not limited to, protection for eyes, ears, lungs, head, hands and feet when operating, servicing, or repairing equipment. Avoid wearing loose clothing or jewelry that may catch and entangle on equipment moving parts.

7. Use sway bars, sway chains or rigid stabilizers to eliminate the 3 point hitch linkage sway and to stabilize post hole digger behind the tractor. As viewed from behind tractor, the 3 point lift arms should be adjusted to position the auger vertically.

8. Never use alcoholic beverages or drugs which can affect alertness or coordination while operating equipment.

THE POST HOLE DIGGER

1. Read the PHD Operator’s Manual. Any person who has not read and understood all operating safety instructions is not qualified to operate this machine. Failure to do so could result in serious injury or death and equipment damage.

2. Become familiar with all the machine’s controls and all the caution, warning and danger decals affixed to the machine before attempting to start or operate.

3. Do not allow children to operate PHD. Do not allow adults to operate PHD without proper instructions.

4. Before starting or operating the machine, make a walk around inspection and check for obvious defects such as loose, damaged or worn components. Correct any deficiency before starting.

5. Do not operate without all guards and shields in place and in good condition.

6. Do not operate with worn, broken or missing auger point and cutting blades.

7. Never use unspecified bolts, bars or pin sizes, lengths and grades to replace spent Bush Hog Specified shear bolts, pins or retaining bolts for drivelines, gearboxes or auger shafts.

CONTINUED ON NEXT PAGE
8. Avoid serious entanglement injury or death or equipment damage; never replace driveline shear bolts or pins or auger shaft retaining bolts longer than specified by Bush Hog.

9. Clear the work area of objects which might be picked up, thrown or be entangled in the auger.

10. Keep the area of operation clear of all persons particularly small children and pets. Stop operation whenever anyone comes within the operating area.

11. Never operate PHD with anyone near or in contact with the PHD, PTO driveline, or auger.

12. Keep body parts, hands and feet clear of auger, PTO driveline and gearbox during operation.

13. Do not transport persons on tractor or PHD.

14. Do not use body weight to force PHD auger into ground during digger operation or to locate auger when turning.

15. Shut off power and stop auger when transporting.

16. Do not raise PHD more than 12 inches off the ground with the tractor PTO engaged.

17. Consult local utility companies before digging to make certain there is no buried gas lines, water lines, electrical cables, etc., in the work area.
IMPORTANT FEDERAL LAWS AND REGULATIONS* CONCERNING EMPLOYERS, EMPLOYEES AND OPERATIONS.

*(This section is intended to explain in broad terms the concept and effect of the following federal laws and regulations. It is not intended as a legal interpretation of the laws and should not be considered as such).

U.S. Public Law 91-596 (The Williams-Steiger Occupational and Health Act of 1970) OSHA

**This Act Seeks:**
“...to assure so far as possible every working man and woman in the nation safe and healthful working conditions and to preserve our human resources...”

**DUTIES**

Sec. 5 (a) Each employer—
(1) shall furnish to each of his employees employment and a place of employment which are free from recognized hazards that are causing or are likely to cause death or serious physical harm to his employees;
(2) shall comply with occupational safety and health standards promulgated under this Act.
(b) Each employee shall comply with occupational safety and health standards and all rules, regulations and orders issued pursuant to this Act which are applicable to his own actions and conduct.

**OSHA Regulations**

Current OSHA regulations state in part: “At the time of initial assignment and at least annually thereafter, the employer shall instruct every employee in the safe operation and servicing of all equipment with which the employee is, or will be involved.” These will include (but are not limited to) instructions to:

- Keep all guards in place when the machine is in operation;
- Permit no riders on equipment;
- Stop engine, disconnect the power source, and wait for all machine movement to stop before servicing, adjusting, cleaning or unclogging the equipment, except where the machine must be running to be properly serviced or maintained, in which case the employer shall instruct employees as to all steps and procedures which are necessary to safely service or maintain the equipment.
- Make sure everyone is clear of machinery before starting the engine, engaging power, or operating the machine.

**EMPLOYEE TRACTOR OPERATING INSTRUCTIONS:**

1. Securely fasten your seat belt if the tractor has a ROPS.
2. Where possible, avoid operating the tractor near ditches, embankments, and holes.
3. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces.
4. Stay off slopes too steep for safe operation.
5. Watch where you are going, especially at row ends, on roads, and around trees.
6. Do not permit others to ride.
7. Operate the tractor smoothly - no jerky turns, starts, or stops.
8. Hitch only to the drawbar and hitch points recommended by tractor manufacturers.
9. When tractor is stopped, set brakes securely and use park lock if available.

**Child Labor Under 16 Years Old**

Some regulations specify that no one under the age of 16 may operate power machinery. It is your responsibility to know what these regulations are in your own area or situation. (Refer to U.S. Dept. of Labor, Employment Standard Administration, Wage & Home Division, Child Labor Bulletin #102.)
1-1 INTRODUCTION

We are pleased to have you as a Bush Hog customer. Your Post Hole Digger has been carefully designed to give maximum service with minimum down time. This manual is provided to give you the necessary operating and maintenance instructions for keeping your post hole digger in top operating condition. Please read this manual thoroughly. Understand what each control is for and how to use it. Observe all safety precautions decaled on the machine and noted throughout the manual for safe operation or implement. If any assistance or additional information is needed, contact your authorized Bush Hog dealer.

NOTE

All references made in this manual to right, left, front, rear, top, or bottom is as viewed facing the direction of forward travel with implement properly attached to tractor.

1-2 DESCRIPTION

The post hole digger (Figure 1-1) mounts to the tractor three-point hitch and is powered by the PTO drive. Power from the PTO is transmitted through a reduction gearbox to the auger.

<table>
<thead>
<tr>
<th>Model</th>
<th>PHDC</th>
</tr>
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<td>Input RPM</td>
<td>540</td>
</tr>
<tr>
<td>Auger RPM</td>
<td>180</td>
</tr>
<tr>
<td>Digging Depth</td>
<td>32&quot;</td>
</tr>
<tr>
<td>Type Hitch</td>
<td>Cat. 0 or 1</td>
</tr>
<tr>
<td>Component Protection</td>
<td>Shear</td>
</tr>
<tr>
<td>Weight (w/o Auger)</td>
<td>121 lbs.</td>
</tr>
<tr>
<td>Auger Diameter</td>
<td>4&quot;, 6&quot; or 9&quot;</td>
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</tbody>
</table>
SECTION II
OPERATING INSTRUCTIONS

2-1 GENERAL SAFETY
Only qualified people should operate this machine. Operator should wear safety glasses, safety shoes, and work gloves. It is recommended that tractor be equipped with Rollover Protective System (ROPS) and a seat belt be used. Before beginning operation, clear work area of objects that could wrap around auger. Check for ditches, stumps, holes, or other obstacles that could upset tractor. Always turn off tractor engine, set parking brake, and allow auger to come to a complete stop before dismounting tractor.

2-2 ATTACHING TO TRACTOR

A. Attach tractor lift arms to post hole digger hitch arch. (Figure 2-1)
B. Remove tractor 3-Point hitch top link. Pin boom into tractor top link hole. NOTE: The boom has two locations for mounting the hitch arch to allow for adequate clearance between the driveline and the hitch arch when in the maximum raised position. When the boom is fully raised, there should be adequate clearance between the auger point and the ground for transporting. After attaching to your tractor 3-point hitch, the pivot pin may need to be repositioned. (Figure 2-2)

C. Pull driveline apart. Attach free end to tractor PTO shaft.
D. Raise and lower post hole digger to determine position with greatest distance between PTO shaft and gearbox input shaft. Shut down tractor leaving implement in position of greatest distance.
E. Hold driveline sections parallel to each other and check for minimum 6 inches (15 cm) overlap. (Figure 2-3) If driveline has less than minimum overlap, do not use. Contact authorized Bush Hog dealer.
F. Reassemble driveline and attach to tractor.
G. Connect / adjust stabilizer bars, sway chains or equivalent and level lower lift arms. Refer to tractor operator’s manual.

Figure 2-1
Figure 2-2 Boom Pivot Points
Figure 2-3 Driveline
2-3 TRANSPORTING
Do not engage tractor PTO drive with post hole digger fully raised to transport position. When implement is transported on road or highway, day or night, use tractor flashing warning lights unless prohibited by law. A slow moving vehicle (SMV) sign must be visible from the rear by approaching vehicles. Do not exceed 15 mph (24 kph).

2-4 OPERATION

**WARNING**

CONSULT LOCAL UTILITY COMPANIES TO MAKE CERTAIN THERE ARE NO BURIED GAS LINES, ELECTRICAL CABLES, ETC. IN THE WORK AREA BEFORE BEGINNING OPERATION. FAILURE TO DO SO COULD RESULT IN PERSONAL INJURY OR DEATH.

A. Perform BEFORE EACH USE maintenance listed in paragraph 3-1.

B. Make certain all bystanders are clear of tractor and implement. With tractor at idle speed and tip of auger 6 inches (152 mm) above ground, engage tractor PTO drive to give unit a test run. Disengage tractor PTO drive.

**CAUTION**

NEVER ENGAGE PTO WHEN AUGER POINT IS MORE THAN ONE FOOT (30 CM) ABOVE GROUND.

**DANGER**

STAND CLEAR OF AUGER AND DRIVE SHAFT WHEN IN OPERATION. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DEATH.

C. Place auger point at desired location of first hole. Drive tractor forward to create an angle 3° (76 mm) back of center of gearbox. (Figure 2-5) As auger works into ground, the slight angle will straighten due to pivoting action of boom.

D. With the auger point in the correct position and all bystanders 10 ft. or more from auger, engage PTO with the engine at a little more than idling speed. Move the tractor hydraulic lift arm lever slowly to the down position. Allow the auger to dig until there is an indication of overloading. Raise the auger but do not allow the auger to come completely out of the hole. This allows auger to clean itself of loose soil. Lower the auger into the hole and continue this procedure until the desired depth is reached.

E. To clear the dug hole of loose soil, stop the auger at its deepest position in the hole, lift out of ground until the point is about 152.4 mm (6") above and start it again, flinging soil off auger. Repeat until hole is clean.

F. If at any time the auger fails to dig, check for the following:

- Grass, roots or clay lodged around blades.
- Foreign objects such as tin cans or wire hung on blades.
- Point or blades loose or excessively worn.
- Tractor lift arms not allowing auger to penetrate full depth with ease.

2-5 DISLODGING AUGER

**THIS STEP IS DONE ONLY WITH THE TRACTOR SHUT OFF.**

If auger becomes lodged on an obstruction below ground, to prevent damage to the yoke and boom, do not attempt to raise auger by hydraulic lift power alone until auger has been turned several revolutions in reverse. A chain wrench, or a pry bar through the U-joint, may be used on the auger to dislodge from obstruction. After auger is freed, apply lift power and slowly rotate PTO shaft to raise auger.
SECTION III
MAINTENANCE

3-1 MAINTENANCE CHECK LIST
Perform scheduled maintenance as outlined below.
Lower implement to ground, turn off tractor, and set
parking brake before doing maintenance inspections or
work. All bolts should be torqued as recommended in
the torque chart on page 16 unless otherwise indicated.

BEFORE EACH USE
1. Inspect auger to be sure that no foreign objects
   such as wire or steel strapping bands are wrapped
   around it.
2. Make certain driveline shields are in place and in
good condition.
3. Check cutting blades, point, and flighting for wear or
damage. Repair or replace as necessary.
4. Perform BEFORE EACH USE lubrication per
paragraph 3-2.
5. During operation, listen for abnormal sounds
which might indicate loose parts, damaged bear-
ings, or other damage.

AFTER EACH USE
1. Clean all debris from machine.

3-2 LUBRICATION (Figure 3-1)
NOTE
The multi-purpose grease referenced in this section
is NLGI Grade 2 type grease.

BEFORE EACH USE
1. Driveline Universal Joints - Apply multi-purpose
grease to fittings.
2. Driveline Guard - Apply 2-3 shots of multi-pur-
pose grease to plastic fittings.
3. Driveline Shaft - Disconnect PTO driveline, pull
two sections apart, and apply thin coat of multi-
purpose grease to inside of outer (female) sec-
tion. Reassemble sections and install. Pull each
section to be sure driveline and shields are
securely connected. Make certain PTO shielding
is in good condition.
4. Gearbox - Add EP80W-90 gear oil as neces-
sary to bring oil level to check plug. Capacity
is one pint.

40 HOURS
5. Yoke Apply multi-purpose grease to fitting on
shear bolt yoke. It is important that this fitting be
greased regularly to prevent yoke from seizing to
input shaft rendering shear pin useless.

Figure 3-1 Lubrication

Before Each Use
Check Plug

Before Each Use
Check Plug

Before Each Use

Before Each Use

Before Each Use

Before Each Use
3-3 OVERLOAD PROTECTION

The Model PHDC uses a shear bolt with lock nut through the gearbox input shaft to provide protection for the gearbox and driveline. A sheared bolt should be driven out and a new bolt (1/4" x 2-1/2" Grade 2 Shear Bolt) installed through the large hole in the yoke. Before installing new bolt, make certain yoke will be retained in place by a roll pin and yoke will rotate around shaft. To prevent damage to the implement, use only a Bush Hog replacement shear bolt.

3-4 AUGER POINT AND BLADES

The auger point and blades are replaceable. The point is held in place with a 1/2 x 3" Grade 2 bolt, lockwasher and nut. The cutting blades are held in place with 1/2 x 1-1/4" bolts and locknuts. (Figure 4-1)

SECTION IV
ASSEMBLY

4-1 BASE UNIT (Figure 4-1)
A. Attach hitch arch to boom using 5/8" pin and two 3/16" x 2" cotter pins.
B. Attach gearbox to boom using pin and two cotter pins.
C. Install the input shaft shield to the front of the gearbox by simply sliding into place. Install the output shaft shield using the two 1/4" x 3/4", Grd. 2 bolts and lockwashers that are provided.
D. Slide driveline yoke onto gearbox input shaft aligning roll pin hole with groove in the gearbox shaft. Install roll pin through yoke. Check to be sure yoke will rotate around shaft but will not come off.
E. Align holes in yoke with hole in gearbox shaft. Insert 1/4" x 2-1/2", Grd. 2 shear bolt through yoke and input shaft and tighten 1/4" lock nut.
F. Install auger onto gearbox output shaft using a 1/2 x 3" bolt, lockwasher and nut.
G. Fill gearbox with 16 oz. of EP80W-90 gear oil. Do not over fill.
4-2 OPTIONAL PARKING/DISPLAY STAND

ASSEMBLY
A. Attach Bracket “A” to Bracket “B” using the 1/2” x 1-1/2” bolts provided.
B. Slide Boom Rests No. 1 and No. 2 down over extensions on Bracket “B”. Do not tighten the adjusting bolts at this time.

STORING THE POST HOLE DIGGER
A. Position tractor so that post hole digger boom is aligned alongside of the boom rests.
B. Disconnect driveline from tractor PTO and push it to the side.
C. Slide the storage stand under the boom and lower the three point lift arms to allow the boom rests to cradle the boom. The height of the boom rests may need to be adjusted. After adjustment, tighten the height adjusting bolts.
D. Secure chains on the boom rests around the boom.
E. Detach Post Hole Digger from the 3-point lift system on the tractor. The tractor may then be driven away from the parking stand.
SAFETY DECALS

To promote safe operation, Bush Hog supplies safety decals on all products manufactured. Because damage can occur to safety decals either through shipment, use or reconditioning, Bush Hog will, upon request, provide safety decals for any of our products in the field at no charge. Contact your authorized Bush Hog dealer for more information.
**TORQUE SPECIFICATIONS**

Proper torque for American fasteners used on Bush Hog equipment. Recommended Torque in Foot Pounds (Newton Meters).*

<table>
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<th>WRENCH SIZE (IN.) &quot;A&quot;*</th>
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<td>1 - 14 UNC</td>
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<td>721 (977)</td>
<td>1019 (1381)</td>
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<tr>
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<td>1-1/8 - 7 UNC</td>
<td>354 (480)</td>
<td>795 (1077)</td>
<td>1288 (1745)</td>
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<td>1-11/16</td>
<td>1-1/8 - 12 UNC</td>
<td>397 (538)</td>
<td>890 (1206)</td>
<td>1444 (1957)</td>
</tr>
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<td>1-7/8</td>
<td>1-1/4 - 7 UNC</td>
<td>500 (678)</td>
<td>1120 (1518)</td>
<td>1817 (2462)</td>
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<tr>
<td>1-7/8</td>
<td>1-1/4 - 12 UNC</td>
<td>553 (749)</td>
<td>1241 (1682)</td>
<td>2013 (2728)</td>
</tr>
<tr>
<td>2-1/16</td>
<td>1-3/8 - 6 UNC</td>
<td>655 (887)</td>
<td>1470 (1992)</td>
<td>2382 (3228)</td>
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<td>2-1/16</td>
<td>1-3/8 - 12 UNC</td>
<td>746 (1011)</td>
<td>1672 (2266)</td>
<td>2712 (3675)</td>
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<tr>
<td>2-1/4</td>
<td>1-1/2 - 6 UNC</td>
<td>870 (1179)</td>
<td>1950 (2642)</td>
<td>3161 (4283)</td>
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<td>2-1/4</td>
<td>1-1/2 - 12 UNC</td>
<td>979 (1327)</td>
<td>2194 (2973)</td>
<td>3557 (4820)</td>
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</table>

Proper torque for metric fasteners used on Bush Hog equipment. Recommended torque in foot pounds (newton Meters).*

<table>
<thead>
<tr>
<th>WRENCH SIZE (mm) &quot;A&quot;*</th>
<th>BOLT DIAM. (mm) &quot;B&quot;</th>
<th>ASTM 4.6</th>
<th>ASTM 8.8</th>
<th>ASTM 9.8</th>
<th>ASTM 10.9</th>
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<tbody>
<tr>
<td>8</td>
<td>5</td>
<td>1.8 (2.4)</td>
<td>5.1 (6.9)</td>
<td>6.5 (8.8)</td>
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<td>10</td>
<td>6</td>
<td>3 (4)</td>
<td>8.7 (12)</td>
<td>11.1 (15)</td>
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<tr>
<td>13</td>
<td>8</td>
<td>7.3 (10)</td>
<td>21.1 (29)</td>
<td>27 (37)</td>
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<tr>
<td>16</td>
<td>10</td>
<td>14.5 (20)</td>
<td>42 (57)</td>
<td>53 (72)</td>
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<tr>
<td>18</td>
<td>12</td>
<td>25 (34)</td>
<td>74 (100)</td>
<td>73 (99)</td>
<td>93 (126)</td>
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<tr>
<td>21</td>
<td>14</td>
<td>40 (54)</td>
<td>116 (160)</td>
<td>116 (157)</td>
<td>148 (201)</td>
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<tr>
<td>24</td>
<td>16</td>
<td>62 (84)</td>
<td>167 (226)</td>
<td>181 (245)</td>
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<td>122 (165)</td>
<td>325 (440)</td>
<td>449 (608)</td>
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<tr>
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<td>22</td>
<td>443 (600)</td>
<td>61 (828)</td>
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<td>211 (286)</td>
<td>563 (763)</td>
<td>778 (1054)</td>
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<td>821 (1112)</td>
<td>1138 (1542)</td>
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<tr>
<td>46</td>
<td>30</td>
<td>418 (566)</td>
<td>1119 (1516)</td>
<td>1547 (2096)</td>
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</tr>
</tbody>
</table>

*Use 75% of the specified torque value for plated fasteners. Use 85% of the specified torque values for lubricated fasteners.