WARNING: Read and thoroughly understand all instructions and safety information before assembling or operating this post hole digger. Failure to do so may cause serious injury or death. Do not allow anyone to operate this post hole digger who has not read this manual. As with all power equipment, a post hole digger can be dangerous if assembled or used improperly. Do not operate this post hole digger if you have doubts or questions concerning safe operation. Call our customer service department at 1-800-525-8322 to address these concerns.

Si no entiende inglés, se prefiere que busque alguien que interprete las instrucciones para usted.

INTENDED USE

This product is designed to dig holes in the soil when attached to the 3-point linkage system and power-take-off of a tractor. It is not intended for any other use. Using the product for anything other than digging holes could result in serious injury or death.

PERSONAL PROTECTIVE EQUIPMENT

ALWAYS use appropriate personal protective equipment such as protective eyewear and safety shoes when operating this log splitter.

NEVER wear loose clothing or jewelry that could become entangled in the auger or driveline.

SAFETY DECALS

ALWAYS replace missing or defaced decals. Reorder from SpeeCo, Inc., 15000 W. 44th Ave., Golden, CO 80403 or call 1-800-525-8322.

DANGER

Rotating Parts Hazard
Keep Away
To Prevent Serious Injury or Death from Rotating Parts:
Si no entiende inglés, se prefiere que busque a alguien que interprete las instrucciones para usted:
• Read and understand owner's manual before operating.
• Do not operate without all shields and guards in place.
• Do not use body weight to force the auger into the ground or to locate auger point when auger is turning.
• Keep away from auger, cutting head and driveline when engine is running.

PART NUMBER: S520201000
LOCATION: TOP OF BOOM ON GEAR BOX END
PART NUMBER: S52020200
LOCATION: UPPER RIGHT SIDE OF BOOM

PART NUMBER: S51019200
LOCATION: PTO DRIVE SHAFT SHIELD

PART NUMBER: S52020300
LOCATION: UPPER LEFT SIDE OF BOOM AND PTO DRIVE SHAFT SHIELD

PART NUMBER: S52066500
LOCATION: TOP OF BOOM, TRACTOR END

PART NUMBER: S52056400
LOCATION: TOP OF BOOM, TRACTOR END

PART NUMBER: S52020300
LOCATION: BOTH SIDES OF GEAR BOX SHIELD

PART NUMBER: S52066500
LOCATION: TOP OF BOOM, TRACTOR END
IMPORTANT SAFETY INFORMATION

PART NUMBER: S52020500
LOCATION: TOP END OF AUGER TUBE

NOTE: IF THE OUTPUT SHAFT GUARD MENTIONED IN THE ABOVE DECAL IS MISSING, YOU MAY ORDER A REPLACEMENT BY CALLING US AT 1-800-525-8322.

GENERAL SAFETY AND PREPARATION

ALWAYS make sure that anyone else who operates this post hole digger has read and understood the contents of the owner’s manual and all safety decals on the product.

ALWAYS be certain that all members of the work party are familiar with the operation of the digger and the hazards associated with it.

ALWAYS check with authorities for underground utilities before digging a hole. Serious injury or death could result from contact with gas or electric lines.

ALWAYS check the tractor owner’s manual for instructions on operation, attachment of 3-point equipment and safety.

ALWAYS make sure that all safety shields are in place and tightened down. Do not operate this post hole digger if any shields are missing. Contact SpeeCo, Inc. at 1-800-525-8322 for replacement part(s).

ALWAYS make sure that the auger point and cutting edges are intact and in good working order before using this digger.

OPERATING SAFETY

ALWAYS operate this post hole digger from the tractor seat. Only one person should operate the digger.

NEVER attach the post hole digger with the tractor engine running.

NEVER operate the post hole digger with anyone near or in contact with any part of the implement, PTO driveline or auger. Serious injury or death could result from entanglement with moving parts.
INTEGER  SAFETY  INFORMATION

OPERATING  SAFETY

ALWAYS  operate  this  post  hole  digger  from  the  tractor  seat.  Only  one  person  should  operate  the  digger.

NEVER  attach  the  post  hole  digger  with  the  tractor  engine  running.

NEVER  operate  the  post  hole  digger  with  anyone  near  or  in  contact  with  any  part  of  the  implement,  PTO  driveline  or  auger.  Serious  injury  or  death  could  result  from  entanglement  with  moving  parts.

ALWAYS  make  sure  that  the  tractor  brake  is  set  before  digging  a  hole.

ALWAYS  keep  hands,  feet  and  clothing  away  from  power-driven  parts  during  operation.

NEVER  manually  position  the  auger  or  manually  force  the  auger  into  the  ground.

ALWAYS  make  sure  that  the  tractor  engine  is  shut  off  and  the  PTO  drive  is  disengaged  before  leaving  the  tractor  seat.

NEVER  move  the  tractor  with  the  power-take-off  in  the  ON  position.

NEVER  exceed  540  RPM  PTO  operating  speed.

NEVER  operate  the  post  hole  digger  when  the  auger  point  is  more  than  6  in.  above  ground  level.  Operating  the  digger  in  elevated  positions  may  cause  the  PTO  driveline  “U”  joints  to  bind  resulting  in  equipment  damage  and  operator  injury.

ALWAYS  turn  off  the  digger  immediately  if  an  immovable  object  is  encountered  to  prevent  damage  to  the  gear  box  or  driveshift  and  possible  injury.  A  shear  bolt  is  provided  but  may  become  welded  to  the  input  shaft  if  the  driveshift  is  left  running  after  being  sheared.

TRANSPORTATION  SAFETY

NEVER  allow  anyone  to  ride  on  Implement.

Make  certain  the  slow  moving  (SMV)  sign  and  other  reflectors  are  clearly  visible.  Follow  local  traffic  codes  for  slow  moving  vehicles  when  transporting  on  public  roads.

REPAIR  AND  MAINTENANCE  SAFETY

ALWAYS  perform  maintenance  operations  such  as  lubrication,  adjustments  or  repairs  on  the  post  hole  digger  with  the  tractor  engine  off,  the  PTO  drive  disengaged  and  the  auger  point  resting  on  the  ground.

ALWAYS  use  the  correct  shear  bolt  (Grade  5).  NEVER  use  or  replace  the  shear  bolt  with  one  that  is  longer  than  the  one  specified  in  the  manual  (5/16”  x  3”).

Periodically  inspect  all  moving  parts  for  wear  and  replace  when  necessary  with  authorized  service  parts.  Look  for  loose  fasteners,  worn  or  broken  parts,  and  leaky  or  loose  fittings.  Serious  injury  may  occur  from  not  maintaining  this  machine  in  good  working  order.

Do  not  modify  or  alter  this  Implement.  Do  not  permit  another  to  modify  or  alter  this  Implement,  any  of  its  components  or  any  Implement  function.  Any  modification  will  void  the  warranty.
**IMPORTANT:** The gear box is shipped without lubricant. Fill the top hole with 80W-90 lubricant or the equivalent. Fill until the lube appears at the side level check hole. Approximately two pints or two pounds of the lubricant is enough to lubricate the gears and bearings. A greater amount will not harm the gear box. Do not fill to overflow point as this may damage the seals.

**STEP 1:** Be certain that the gear box has adequate lubrication. Check the oil level after every fifty hours of use.

**STEP 2:** Attach the boom (1) to the top link mounting bracket on the tractor using a top link pin and a lynch pin (not provided) through the hole at the bottom of the boom.

**STEP 3:** Connect the “A” frame (5) to the tractor’s 3-point lift arms using the 7/8 in. pull pins with nut and lockwasher (7) as shown in the drawing. Attach the “A” frame (5) to the boom (1) after selecting the desired hole (for angle adjustment) using the “A” frame pin (6) and lynch pin (4).

**STEP 4:** Attach the gear box (10) to the boom (1) using the boom pin (2). When in place secure with cotter pins (3). **NOTE:** Input shaft shield (9) and output shaft shield (8) are already attached to the gear box.

**STEP 5:** Attach the auger (18, 19 or 20) to the output shaft on the bottom of the gear box (10) using the 1/2 in. hex cap screws (15), 1/2 in. lockwashers (16) and 1/2 in. hex nuts (17). Tighten the nuts.

**STEP 6:** Attach the driveline (11) to the gear box input shaft using the 5/16 in. grade 5 hex cap screw (12), the 5/16 in. lockwasher (13) and the 5/16 in. NC hex nut (14). Tighten the hex nut. Insert the 1/4 in. x 3/8 in. set screw (24) from the hardware kit in the hole on the yoke that aligns with the 3/16 in. groove on the gear box input shaft. Tighten loosely.

**ATTENTION:** THE 5/16 IN. HEX CAP SCREW PROVIDES SHEAR PROTECTION. USE A GRADE 5 3 IN. BOLT ONLY TO AVOID DAMAGE TO THE GEAR BOX OR AUGER.

**IMPORTANT:** The universal joint should be greased with a good grade chassis lube every week. At the beginning of each season grease the sliding driveshaft members with a moly grease. All diggers are equipped with quick-detach universal joints on the power-take-off end for a 1-3/8 in. splined shaft.

**STEP 7:** Attach the tractor end of the driveline (11) to the tractor PTO shaft. Retract the yellow zinc plated outer collar and slip it on the splined PTO shaft of the tractor. Release the collar when it is securely in place on the shaft. It will be necessary to obtain a 1-1/8 in. to 1-3/8 in. sleeve spline adapter if your tractor PTO shaft has a 1-1/8 in. spline.

**STEP 8:** Check all nuts and bolts for tightness. Stabilizers should be kept tight to avoid side sway of the digger.

**NOTE:** See illustration A for reference in assembling the digger and mounting it to the tractor. Note that the boom angle can be adjusted on your tractor for proper digging and ground clearance by moving the “A” frame to a different mounting hole as shown in illustration B.

**NOTE:** When the 7/8 in. diameter pull pins in the “A” frame are too small for the holes in the lift arms, bushings should be used to obtain a proper fit.
OPERATING INSTRUCTIONS

**WARNING:** Read and thoroughly understand all instructions and safety information before operating this post hole digger. Failure to do so may cause serious injury or death. Do not allow anyone to operate this post hole digger who has not read this manual.

**STEP 1:** After mounting the digger to the tractor, lower the auger point slowly to the ground at the desired digging angle before engaging power.

**STEP 2:** Engage the power-take-off and start digging at a slow speed, lowering the auger slowly as it begins to dig.

**STEP 3:** Increase speed as the auger goes deeper. The type of soil will determine the proper auger speed. If the soil is extremely hard, it will generally improve operation to vary the speed of the auger at times.

**STEP 4:** When the auger has reached the desired depth, spin it momentarily at a high speed to clear the hole of dirt. Reduce speed before withdrawing the auger from the hole.

**STEP 5:** Disengage the power-take-off after withdrawing from the hole and move the tractor to the next hole location.

GENERAL MAINTENANCE

**WARNING:** Always perform maintenance operations with the tractor engine off, the PTO drive disengaged and the auger point resting on the ground.

1. To remove the auger from the gear box output shaft, take out the two 1/2 in. x 3-1/2 in. hex cap screws (15).

2. To remove the driveshaft from the gear box input shaft, take out the shear pin bolt (12) and 1/4 in. set screw (24).

3. Check the oil level after every fifty hours of use. Use 80W-90 lubricant and fill to oil level plug. All replacement lubricant should be of this type.

4. The universal joints should be greased with a good grade chassis lube every week. At the beginning of each season, grease the sliding driveshaft members with a moly grease.
<table>
<thead>
<tr>
<th>REFERENCE NUMBER</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
<th>NUMBER REQUIRED</th>
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<tbody>
<tr>
<td></td>
<td>S24044200</td>
<td>Hardware Kit</td>
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<td></td>
<td>S24044500</td>
<td>Model 100 Hole Digger less Auger</td>
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</tr>
<tr>
<td>1</td>
<td>S240851TSC</td>
<td>Boom</td>
<td>1</td>
</tr>
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<td>2</td>
<td>S24082300</td>
<td>Boom/Gear Box Pin</td>
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<tr>
<td>3</td>
<td>O/L</td>
<td>5/32” x 1-1/2” Cotter Pin</td>
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<td>7/16 in. Lynch Pin</td>
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<td>S240853TSC</td>
<td>“A” Frame</td>
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<td>S07070100</td>
<td>“A” Frame Pin</td>
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<td>S07020800</td>
<td>7/8 in. Pull Pin with Nut and Lockwasher</td>
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<tr>
<td>8</td>
<td>S24070700</td>
<td>Gear Box Output Guard</td>
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</tr>
<tr>
<td>9</td>
<td>S24070300</td>
<td>Gear Box Input Guard</td>
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<td>10</td>
<td>S240701AS</td>
<td>Gear Box w/Shields</td>
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<td>Driveline with Plastic Shield</td>
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<td>11A</td>
<td>S24117100</td>
<td>Driveline Guard Assembly</td>
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<td>S24117200</td>
<td>Tractor End Yoke</td>
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<tr>
<td>11C</td>
<td>S241159HZ</td>
<td>Implement End Yoke</td>
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<td>11D</td>
<td>S241155HZ</td>
<td>Cross and Bearing Kit</td>
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<td>11E</td>
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<td>12</td>
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<td>5/16 in. x 3 in. Hex Cap Screw (Grade 5 Shear Bolt)</td>
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<td>13</td>
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<td>5/16 in. Lockwasher</td>
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<td>5/16 in. NC Hex Nut</td>
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<td>16</td>
<td>O/L</td>
<td>1/2 in. Lockwasher</td>
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<tr>
<td>17</td>
<td>O/L</td>
<td>1/2 in. NC Hex Nut</td>
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<td>18</td>
<td>S24121100 (21-00238)</td>
<td>6 in. Auger</td>
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<td>19</td>
<td>S24121400 (21-00246)</td>
<td>9 in. Auger</td>
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<td>20</td>
<td>S24121700 (21-00254)</td>
<td>12 in. Auger</td>
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<td>21</td>
<td>S24054800 (21-00301)</td>
<td>18 in. Auger</td>
<td>1</td>
</tr>
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<td>22</td>
<td>S24054900 (21-00319)</td>
<td>24 in. Auger</td>
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<td>3/8” NC x 1” Hex Cap Screw (Grade 5)</td>
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<td>O/L</td>
<td>3/8” Lockwasher</td>
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<td>23</td>
<td>S24121900 (21-00301)</td>
<td>Screw Point</td>
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<td>24</td>
<td>O/L</td>
<td>1/4” x 3/8” in. Set Screw</td>
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<td>S24087600</td>
<td>Manual Canister</td>
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<td></td>
<td>S24044200</td>
<td>Hardware Kit</td>
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</tbody>
</table>

O/L- Obtain locally. Common fasteners available through hardware and farm stores.
See Illustration D for cutting edges and point.

See Illustration F for gear box parts.
### CUTTING EDGES AND POINT PARTS BREAKDOWN

<table>
<thead>
<tr>
<th>REF. NO.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>QUANTITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>S21122200</td>
<td>Carbide Cutting Edge</td>
<td>Varies by auger</td>
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<tr>
<td>2</td>
<td>O/L</td>
<td>1/2&quot; x 1&quot; UNC Carriage Bolt</td>
<td>1 per cutting edge</td>
</tr>
<tr>
<td>3</td>
<td>O/L</td>
<td>1/2&quot; UNC Lock Nut</td>
<td>1 per cutting edge</td>
</tr>
<tr>
<td>4</td>
<td>O/L</td>
<td>1/2&quot; x 3-1/2&quot; Bolt</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>O/L</td>
<td>1/2&quot; Lock Nut</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>S24121900</td>
<td>Auger Point</td>
<td>1</td>
</tr>
</tbody>
</table>

O/L- Obtain locally. Common fasteners available through hardware and farm stores.

**NOTE:** The number of cutting edges varies by auger size. Check your auger when ordering replacement cutting edges. See information below.

### ILLUSTRATION D

Number of Cutting Edges Per Auger

- 6 in. (S24121100) - 2
- 9 in. (S24121400) - 2
- 12 in. (S24121700) - 4
- 18 in. (S24054800) - 4
- 24 in. (S24054900) - 6

**NOTE:** It is important to replace the point and cutting edges when they show signs of excessive wear.
SPECIFICATIONS

Tractor Category
Compact, Category 1 and Category 2

Gear Box
Special alloy pinion gears and tapered roller bearings on both sides of each gear

Driveline
Equipped with quick-tach yoke to fit standard 6 spline PTO (completely shielded)

Augers
Sold separately. 6 in., 9 in., 12 in., 18 in. and 24 in. sizes available

Cutting Edges
Sold separately. Replaceable carbide

Point
Sold separately. Spiral tip

Boom
2-7/8 in. O.D. high strength tubing

A-frame
2-7/8 in high strength tubing

Safety shields
On driveline, gear box “U” joint and gear box output shaft

Shear Pin
Replaceable. On input shaft to protect driveline, auger and gears

Options
Hydraulic down force kit and weight mounting kit

ORDERING INFORMATION

PART NO. DESCRIPTION
S24046000 Heavy Duty post hole digger less auger
S24121100 6 in. auger with spiral point and replaceable carbide cutting edges
S24121400 9 in. auger with spiral point and replaceable carbide cutting edges
S24121700 12 in. auger with spiral point and replaceable carbide cutting edges
S24054800 18 in. auger with spiral point and replaceable carbide cutting edges
S24054900 24 in. auger with spiral point and replaceable carbide cutting edges
S24121900 Spiral point for 6 in., 9 in., 12 in., 18 in. and 24 in. augers
S24122200 2 in. carbide cutting edge for 6 in., 9 in., 12 in., 18 in. and 24 in. augers
(Quantity required varies by auger size.)
S24086500 Weight Mount Kit
S24045600 Hydraulic down force kit