



COUNTYLINE®
TRACTOR SUPPLY CO.



MODEL NO. 2100220 (S24045500)
POST HOLE DIGGER
OWNER'S MANUAL
ASSEMBLY & OPERATING INSTRUCTIONS



*THIS SAFETY ALERT SYMBOL IDENTIFIES IMPORTANT SAFETY MESSAGES IN THIS MANUAL.
FAILURE TO FOLLOW THIS IMPORTANT SAFETY INFORMATION MAY RESULT IN SERIOUS
INJURY OR DEATH.*

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IMPORTANT SAFETY INFORMATION



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 ingles, 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.



PART NUMBER: S520201000

LOCATION: TOP OF BOOM ON GEAR BOX END



IMPORTANT SAFETY INFORMATION



DANGER

TO PREVENT SERIOUS INJURY OR DEATH:

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

- Read and understand owner's manual before operating.
- Operate only from the tractor seat.
- Stay away from rotating parts. Keep others away.
- Do not dig around underground utility lines without checking with authorities.

PHDC 2

PART NUMBER: S52020200

LOCATION: UPPER RIGHT SIDE OF BOOM



DANGER



**Rotating Driveline
CONTACT CAN CAUSE DEATH
KEEP AWAY !**

DO NOT OPERATE WITHOUT-

- ALL DRIVELINE GUARDS, TRACTOR AND EQUIPMENT SHIELDS IN PLACE
- DRIVELINES SECURELY ATTACHED AT BOTH ENDS
- DRIVELINE GUARDS THAT TURN FREELY ON DRIVELINE

PART NUMBER: S51019200

LOCATION: PTO DRIVE SHAFT SHIELD



DANGER

TO PREVENT SERIOUS INJURY OR DEATH:

- Contact dealer, make sure your machine has all current safety guards and shields in place.
- Do not operate without all guards and shields in place.
- Do not operate when auger is higher than 12 inches above ground level. Doing so may cause driveline to bind, resulting in equipment damage or operator injury.
- Stop auger rotation before maneuvering, relocating or transporting.

PHDC 3

PART NUMBER: S52020300

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



WARNING

- This digger may not be compatible with all tractor models.
- Before operating, mount the boom and A-frame to the tractor.
- Raise up and lower the 3-point lift arms to the max and min positions.
- Check that there is no tractor/boom interference at any position.
- If there is not interference, continue with the assembly of the digger.
- Failure to do so may result in damage to the tractor, digger, and/or personal injury.

52056400

PART NUMBER: S52056400

LOCATION: TOP OF BOOM,
TRACTOR END



DANGER

DO NOT ATTACH THIS IMPLEMENT OR ATTEMPT TO OPERATE UNTIL YOU HAVE READ AND UNDERSTOOD ALL INSTRUCTIONS IN THE OWNER'S MANUAL. IF AN OWNER'S MANUAL IS NOT AVAILABLE CONTACT SPECIAL PRODUCTS CO., 15000 W. 44th AVE., GOLDEN, CO 80403-1824 PHONE 303-279-5544

PHDC 4

PART NUMBER: S52020400

LOCATION: BOTH SIDES OF GEAR BOX SHIELD



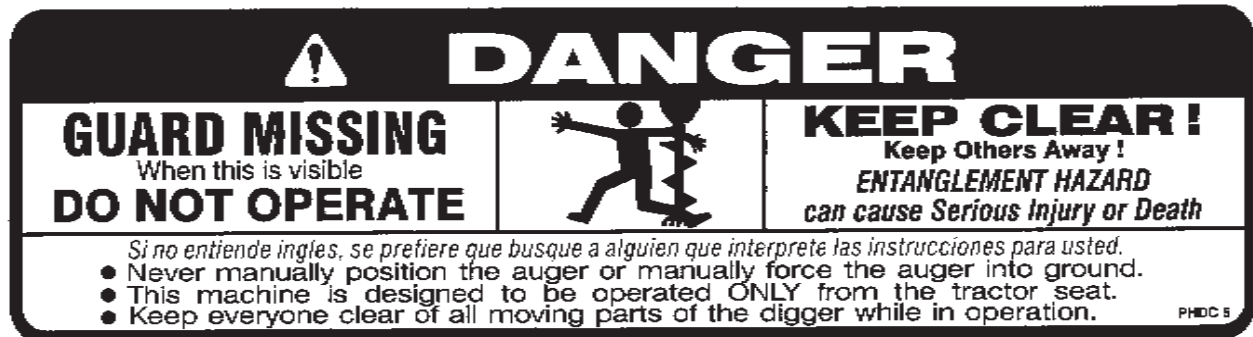
**Know what's below.
Call before you dig.**

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.



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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 driveshaft and possible injury. A shear bolt is provided but may become welded to the input shaft if the driveshaft 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 transpotting 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.

ASSEMBLY INSTRUCTIONS

- 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.



ILLUSTRATION A

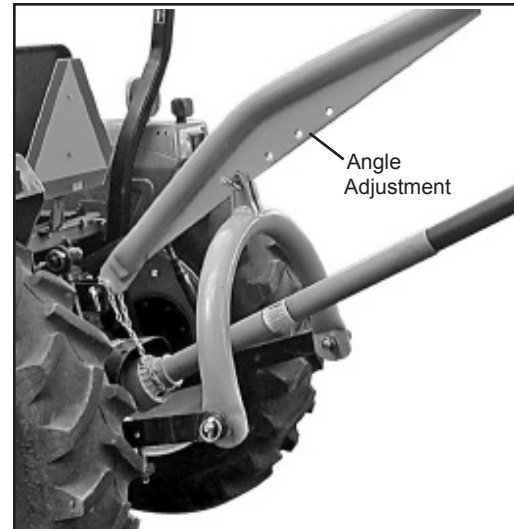


ILLUSTRATION B

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

REFER TO ILLUSTRATION C



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.

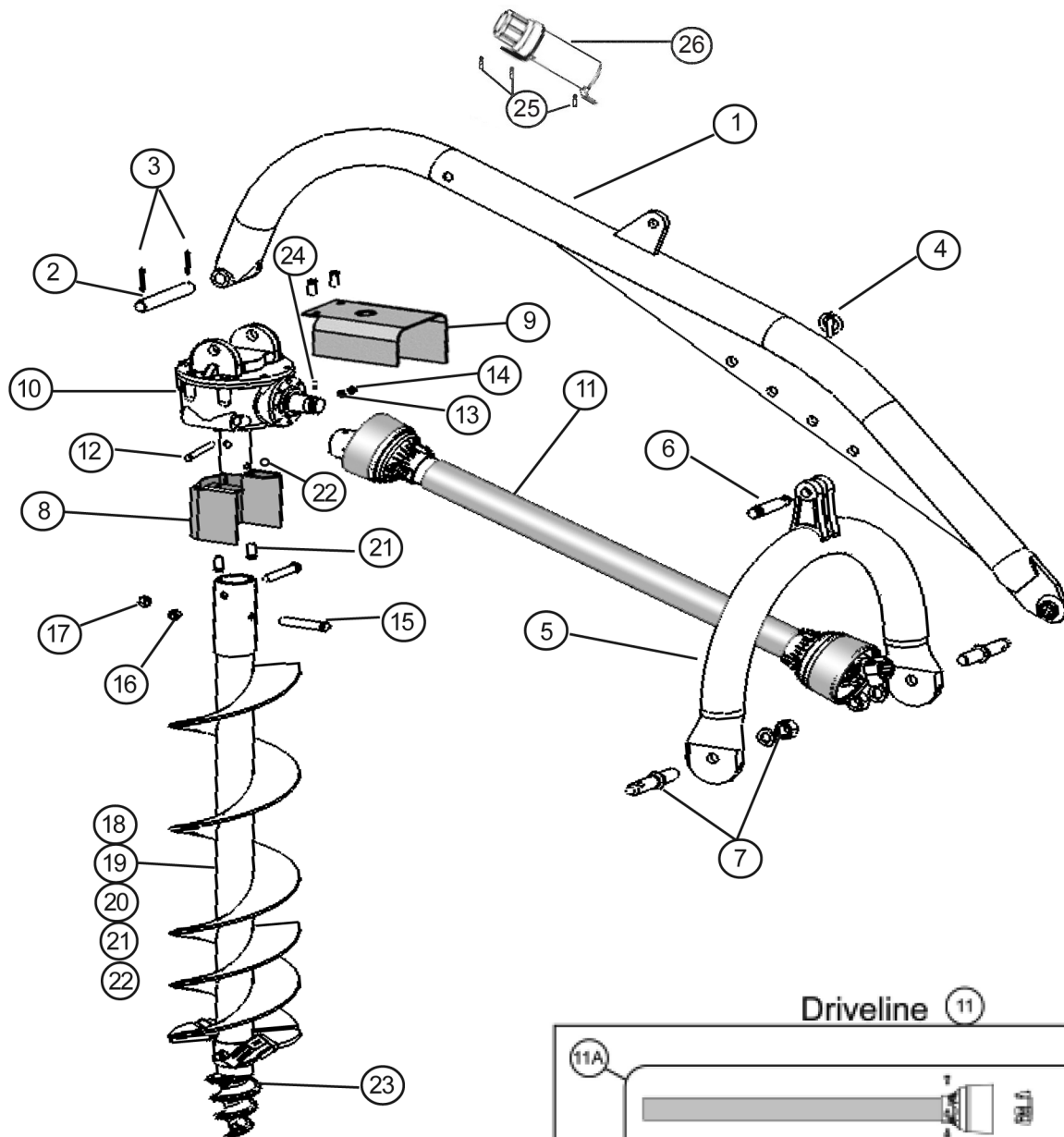
POST HOLE DIGGER PARTS BREAKDOWN

REFERENCE NUMBER	PART NUMBER	DESCRIPTION	NUMBER REQUIRED
	S24044500 (21-00220)	Model 100 Hole Digger less Auger	
1	S240851TSC	Boom	1
2	S24082300	Boom/Gear Box Pin	1
3	O/L	5/32" x 1-1/2" Cotter Pin	2
4	O/L	7/16 in. Lynch Pin	1
5	S240853TSC	"A" Frame	1
6	S07070100	"A" Frame Pin	1
7	S07020800	7/8 in. Pull Pin with Nut and Lockwasher	2
8	S24070700	Gear Box Output Guard	1
9	S24070300	Gear Box Input Guard	1
10	S240701AS	Gear Box w/Shields	1
11	S24117000	Driveline with Plastic Shield	1
11A	S24117100	Driveline Guard Assembly	1
11B	S24117200	Tractor End Yoke	1
11C	S241159HZ	Implement End Yoke	1
11D	S241155HZ	Cross and Bearing Kit	2
11E	O/L	1/4" x 3/8" Pointed Set Screw	1
12	O/L	5/16 in. x 3 in. Hex Cap Screw (Grade 5 Shear Bolt)	1
13	O/L	5/16 in. Lockwasher	1
14	O/L	5/16 in. NC Hex Nut	1
15	O/L	1/2 in. NC x 3 in. Hex Cap Screw	2
16	O/L	1/2 in. Lockwasher	2
17	O/L	1/2 in. NC Hex Nut	2
18	S24121100 (21-00238)	6 in. Auger	1
19	S24121400 (21-00246)	9 in. Auger	1
20	S24121700 (21-00254)	12 in. Auger	1
21	S24054800 (21-00301)	18 in. Auger	1
22	S24054900 (21-00319)	24 in. Auger	1
21	O/L	3/8" NC x 1" Hex Cap Screw (Grade 5)	2
22	O/L	3/8" Lockwasher	2
23	S24121900 (21-00301)	Screw Point	1
24	O/L	1/4 in. x 3/8 in. Set Screw	1
25	O/L	5/16" X 1" GR2 Bolt	3
26	S24087600	Manual Canister	1
	S24044200	Hardware Kit	1

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

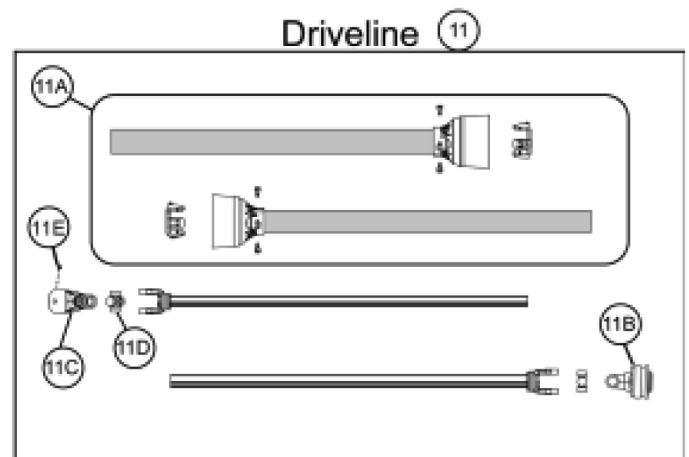
POST HOLE DIGGER

ILLUSTRATION C



See Illustration D for cutting edges and point.

See Illustration F for gear box parts.



NOTE: Safety shields are shaded on this diagram. NEVER operate the digger with any shield missing.

CUTTING EDGES AND POINT PARTS BREAKDOWN

REF. NO.	PART NO.	DESCRIPTION	QUANTITY
1	S21122200	Carbide Cutting Edge	Varies by auger
2	O/L	1/2" x 1" UNC Carriage Bolt	1 per cutting edge
3	O/L	1/2" UNC Lock Nut	1 per cutting edge
4	O/L	1/2" x 3-1/2" Bolt	1
5	O/L	1/2" Lock Nut	1
6	S24121900	Auger Point	1

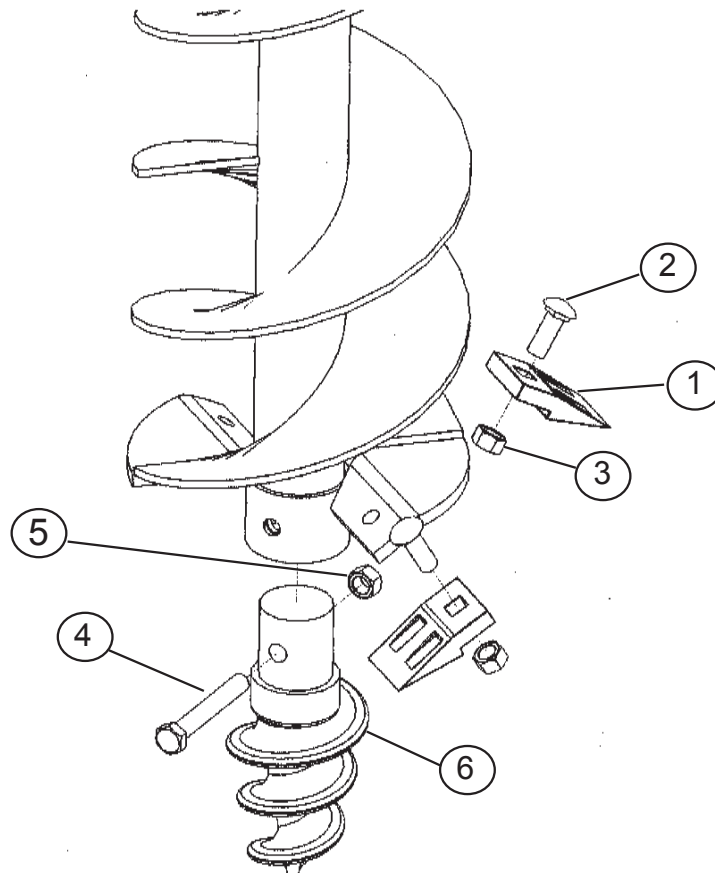
O/L- Obtain locally. Common fasteners available through hardware and farm stores.

***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.

== NOTES ==

Model No. _____

Serial No. _____

Date of Purchase _____

Place of Purchase _____

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



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Part No. S53013900