



HEAVY DUTY POST HOLE DIGGER



MODEL NO. PD24460 (24046000)

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 post hole digger.

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 ingles, 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.

PHDC 1

PART NUMBER: DL5202010
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: DL52020200

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: DL51019200

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: DL52020300

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

ATTENTION

540 RPM MAXIMUM

PTO OPERATING SPEED ⑨

PART NUMBER: DL51011900

LOCATION: PTO DRIVE SHAFT SHIELD



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

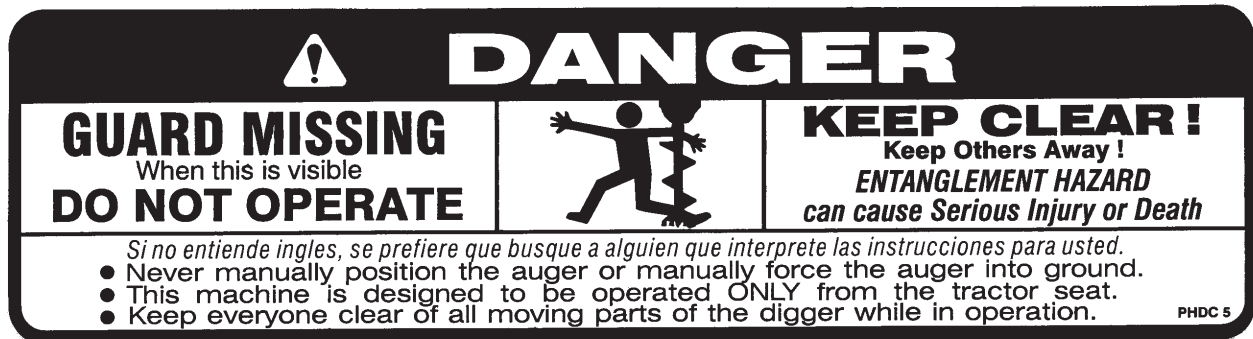
PHDC 4

PART NUMBER: DL52020400

LOCATION: BOTH SIDES OF GEAR BOX SHIELD



IMPORTANT SAFETY INFORMATION



PART NUMBER: DL52020500
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.



IMPORTANT SAFETY INFORMATION

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.

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 (3/8" x 3").

ASSEMBLY INSTRUCTIONS

- IMPORTANT:** The gear box is shipped without lubricant. Fill the top hole with EP 90 lubricant or the equivalent. Approximately 1.75 quarts 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 swivel ball at the bottom of the boom. The ball accepts either category 1 or 2 pins.
- 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 supplied with the gear box. When in place secure with the cotter pins provided. NOTE: Input shaft shield (9) and output shaft shield (8) are already attached to the gear box.
- STEP 5:** Attach the auger (18, 19, 20, 25 or 26) 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 3/8 in. grade 5 hex cap screw (12), the 3/8 in. lockwasher (13) and the 3/8 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 3/8 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. Push in the spring-loaded pin in the splined yoke and slip it on the splined PTO shaft of the tractor. Release the pin and push until it locks securely in place. 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:** Attach and secure the lower chain on the driveline to the boom (1). Attach the upper chain to the hole on the gear box shield (9).
- STEP 9:** 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

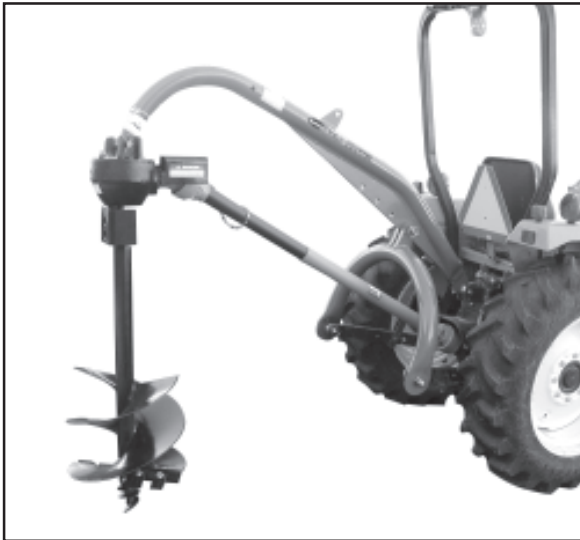


ILLUSTRATION A

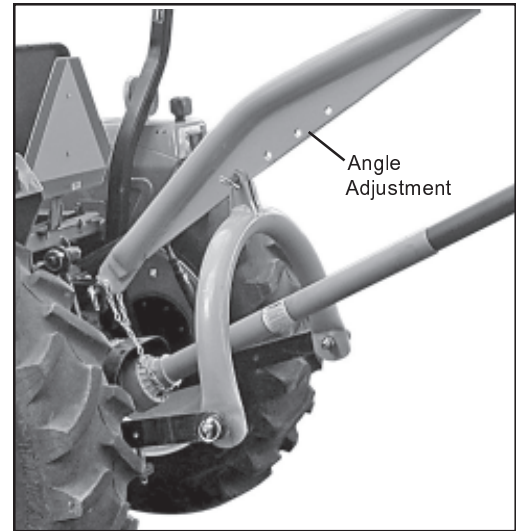


ILLUSTRATION B

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 EP 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.

HEAVY DUTY POST HOLE DIGGER PARTS BREAKDOWN

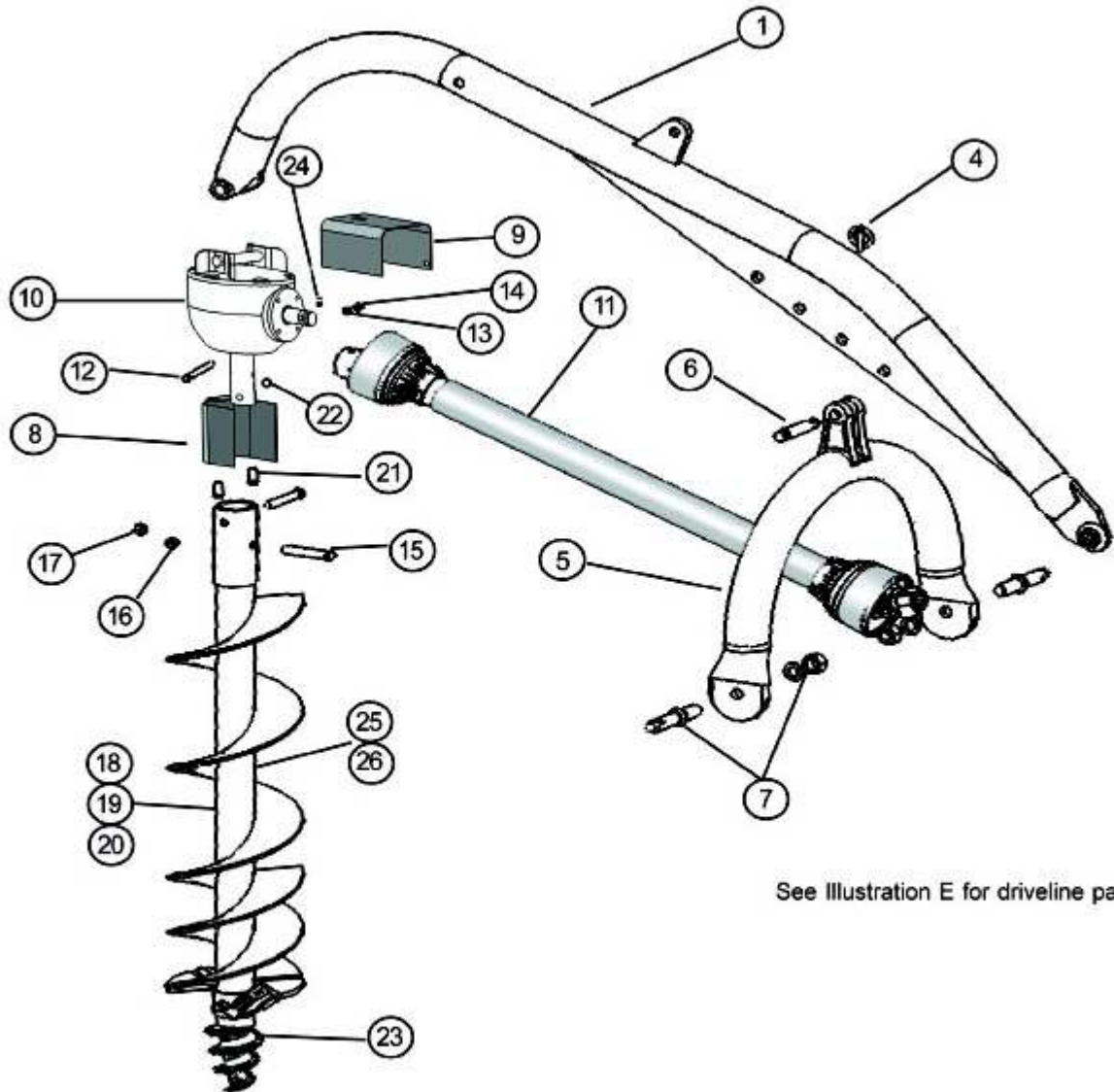
REFERENCE NUMBER	SKU NUMBER	PART NUMBER	DESCRIPTION	NUMBER REQUIRED
	24046000	PD24460	Heavy Duty Post Hole Digger less Auger	1
1	24086100	PD24861	Boom	1
4	*07090100	P791	7/16 in. Lynch Pin	1
5	24086000	PD24860	"A" Frame	1
6	*07070100	P771	"A" Frame Pin	1
7	*07020800	P728	7/8 in. Pull Pin with Nut and Lockwasher	2
8	24075300	PD24753	Output Shaft Shield	1
9	24075200	PD24752	Input Shaft Shield	1
10	24075400	PD24754	Gear Box w/Shields	1
11	24112000 or	PD24112	Driveline with Plastic Shield	1
	24115000	PD24115	Driveline with Plastic Shield	
12	* O/L	* O/L	3/8 in. x 3 in. Hex Cap Screw(Grade 5 Shear Bolt)	1
13	* O/L	*O/L	3/8 in. Lockwasher	1
14	* O/L	*O/L	3/8 in. NC Hex Nut	1
15	* O/L	*O/L	1/2 in. NC x 3 in. Hex Cap Screw	2
16	* O/L	*O/L	1/2 in. Lockwasher	2
17	* O/L	*O/L	1/2 in. NC Hex Nut	2
18	24121100	PD241211	6 in. Auger	1
19	24121400	PD241214	9 in. Auger	1
20	24121700	PD241217	12 in. Auger	1
23	24121900	PD241219	Screw Point	1
24	* O/L	*O/L	1/4 in. x 3/8 in. Set Screw	1
25	24054800	PD24548	18 in. Auger	1
26	24054900	PD24549	24 in. Auger	1
	24044300	PD24443	Hardware Package	1

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

NOTE: All augers are sold separately.

HEAVY DUTY DIGGER

ILLUSTRATION C



See Illustration E for driveline parts.

See Illustration D for cutting edges and point.

CUTTING EDGES AND POINT PARTS BREAKDOWN

REFERENCE NUMBER	SKU NUMBER	PART NUMBER	DESCRIPTION	NUMBER REQUIRED*
1	24122200	PD241222	Cutting Edge	varies by auger
2	O/L	O/L	1/2 in.-1 in. UNC Carriage Bolt	1 per cutting edge
3	O/L	O/L	1/2 in. UNC Lock Nut	1 per cutting edge
4	O/L	O/L	1/2 in. x 3 -1/2 in. Bolt	1
5	O/L	O/L	1/2 in. Lock Nut	1
6	24121900	PD241219	Auger Point	1

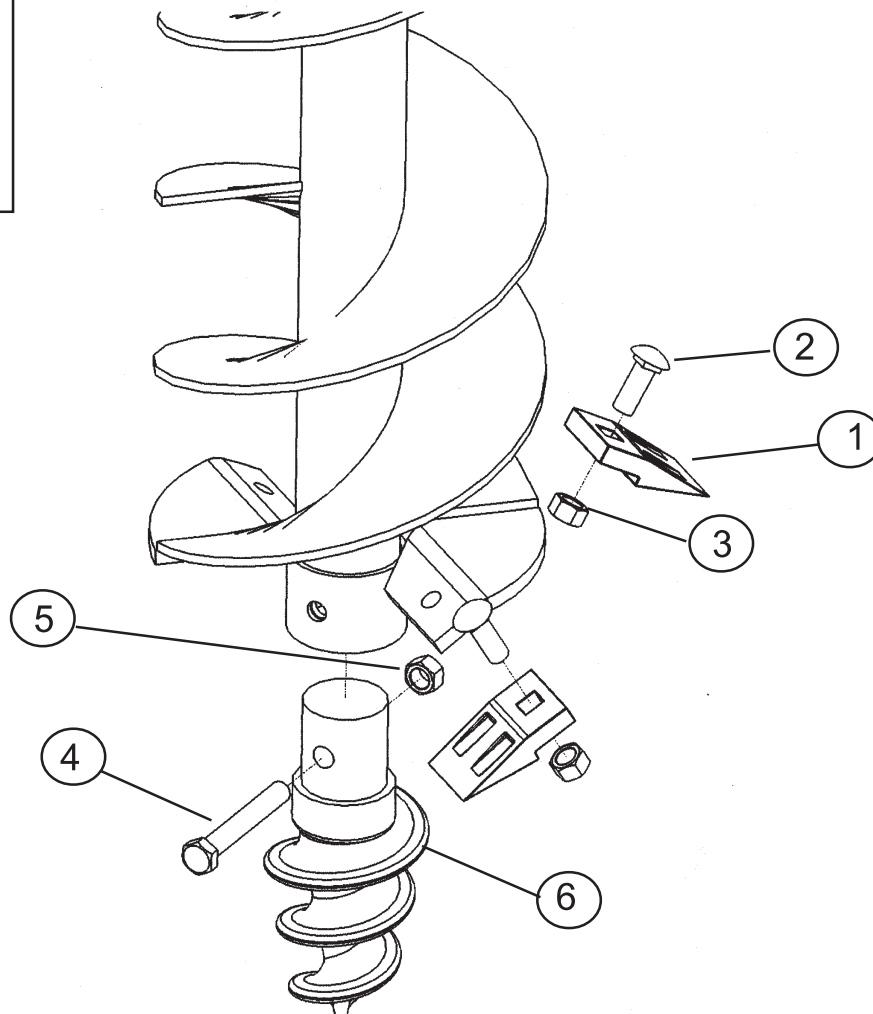
O/L- Obtain locally. Common fasteners available through hardware and farm stores.

*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. (24121100)- 2
 9 in. (24121400)- 2
 12 in. (24121700)- 4
 18 in. (24054800)- 4
 24 in. (24054900)- 6

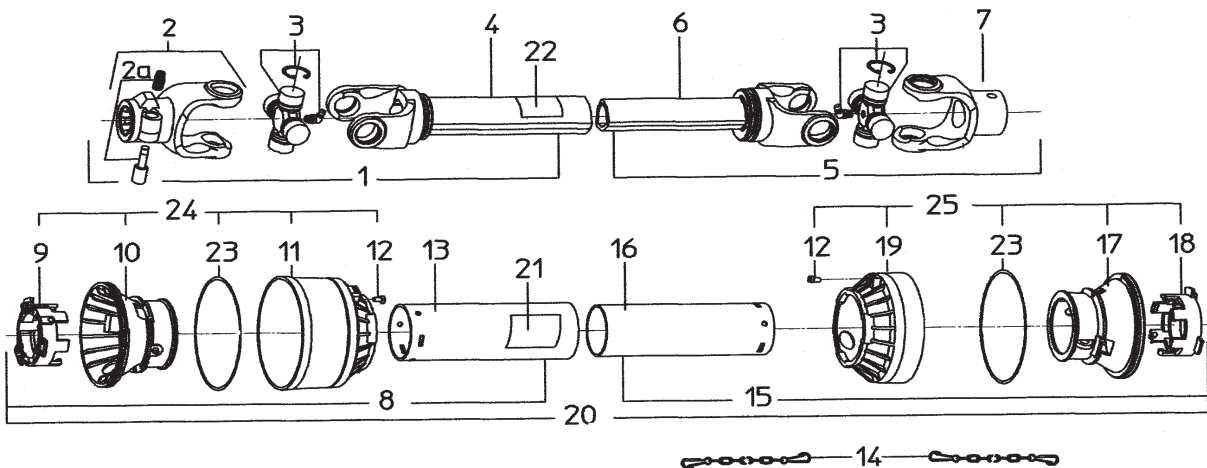


NOTE: It is important to replace the point and cutting edges when they show signs of excessive wear.

DRIVELINE PARTS BREAKDOWN

REFERENCE NUMBER	SKU NUMBER	PART NUMBER	DESCRIPTION	NUMBER REQUIRED
1	24112100	PD241121	Half Outer Yoke	1
2	24112200	PD241122	Yoke Assembly (tractor)	1
2A	24112300	PD241123	Push Pin Kit	1
3	24112400	PD241124	Cross Assembly	2
4	24112500	PD241125	Outside Tube with Yoke	1
5	24112600	PD241126	Half Inner Shaft	1
6	24112700	PD241127	Inside Tube with Yoke	1
7	24112800	PD241128	Yoke Assembly (implement)	1
8	24112900	PD241129	Half Outer Guard	1
9	24113000	PD241130	Tube Bearing	1
10	24113100	PD241131	Outer Tube Rigid Cone	1
11	24113200	PD241132	Standard Soft Cone	1
12	24113300	PD241133	Pin for Stop Rotation	2
13	24113400	PD241134	Outer Tube	1
14	24113500	PD241135	Antirotation Chain	2
15	24113600	PD241136	Half Inner Guard	1
16	24113700	PD241137	Inner Tube	1
17	24113800	PD241138	Inner Tube Rigid Cone	1
18	24113900	PD241139	Tube Bearing	1
19	24114000	PD241140	Short Soft Cone	1
20	24114100	PD241141	Complete Guard	1
21	24114200	PD241142	Outer Decal	1
22	24114300	PD241143	Inner Decal	1
23	24114400	PD241144	Stiffening Ring	2
24	24114500	PD241145	Standard Cone Assembly (tractor)	2
25	24114600	PD241146	Short Cone Assembly (implement)	2

ILLUSTRATION E



== NOTES ==

Model No. _____

Date of Purchase _____

Place of Purchase _____

SPECIFICATIONS

Tractor Category	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	6 in., 9 in., 12 in. , 18 in. and 24 in. (sold separately)
Cutting Edges	Replaceable, carbide (sold separately)
Point	Spiral tip (sold separately)
Boom	3-1/4 in. in. O.D. high strength tubing with tapered rib and multiple holes for height adjustment
A-frame	3-1/4 in. high strength tubing
Safety shields	On driveline, gear box "U" joint and gear box output shaft
Shear Bolt	Replaceable. On input shaft to protect driveline, auger and gears.
Options	Hydraulic down force kit and weight mounting kit

ORDERING INFORMATION

SKU NO	PART NO.	DESCRIPTION
24046000	PD24460	Heavy Duty post hole digger less auger
24121100	PD241211	6 in. auger with spiral point and replaceable carbide cutting edges
24121400	PD241214	9 in. auger with spiral point and replaceable carbide cutting edges
24121700	PD241217	12 in. auger with spiral point and replaceable carbide cutting edges
24054800	PD24548	18 in. auger with spiral point and replaceable carbide cutting edges
24054900	PD24549	24 in. auger with spiral point and replaceable carbide cutting edges
24121900	PD241219	Spiral point for 6 in., 9 in., 12 in., 18 in. and 24 in. augers
24122200	PD241222	2 in. carbide cutting edge for 6 in., 9 in., 12 in., 18 in. and 24 in. augers (Quantity required varies by auger size.)
24086500	PD24865	Weight Mount Kit
24045600	PD24456	Hydraulic down force kit



A brand of Special Products Co.

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