THE "SWINGER" BY: HURRICANE



HURRICANE DITCHER CO., INC.

HD

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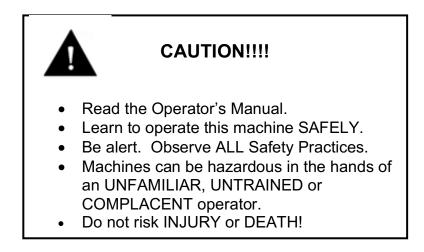
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March 2021

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INTRODUCTION

Thank you and congratulations on your purchase of The "Swinger". We certainly hope that it will be helpful and useful to you. As with all of our ditchers, it has been tested and built with knowledge, precision, and quality for years of dependable service. As a leader in the ditching industry since 1984, we continually build on our experience and use customer feedback to maintain and improve the quality and dependability of our machines.

In order to fulfill a need in agriculture, The "Swinger" was developed in 2001 as an efficient and affordable machine used to make surface drainage ditches using a standard farm tractor. With its unique offset design, it allows the versatility to ditch areas normally unreachable by straight behind ditchers. It is also being utilized by county highway departments for cleaning roadside ditches. Whatever your application, we hope it works well for you.

Please read and follow all safety precautions, operating procedures and maintenance requirements. Following these recommendations will prevent injury and operation down time. Proper maintenance and lubrication will prevent machine breakdown and increase its life expectancy, which will lead to better performance for you.

Please let us know of any comments, suggestions, or problems that may arise.

HURRICANE DITCHER CO., INC. 2425 Cathlinette Road Vincennes, IN 47591 812-886-9663 www.hurricane-ditcher.com info@hurricane-ditcher.com YOUR AUTHORIZED HURRICANE DITCHER DEALER:

SPECIFICATIONS OF THE "SWINGER"

- HP required: 80 to 140 HP on 540 or 1000 RPM PTO
- Width of cut: 20 inches with standard 6 paddle impeller wheel; 15 inches with optional 5 paddle impeller wheel
- Depth of cut: up to 10 inches in a single pass; up to 20 inches in multiple passes with standard 6 paddle impeller wheel; up to 16 inches in multiple passes with optional 5 paddle impeller wheel
- Weight of machine: approximately 1,300 pounds
- Drive train: 55 series PTO with shear bolts which overload at the tractor end; 1-3/4" diameter drive shaft from PTO to gearbox; double 80 roller chain with idler adjustment
- Certain brands of tractors could require different length PTO and/or hydraulic hoses. Contact your dealer for detailed specifications.

SAFETY PRECAUTIONS



<u>OBSERVE THIS SYMBOL THROUGHOUT THIS MANUAL</u>. It calls out potential hazards and dangers. This symbol will be associated with a key SIGNAL WORD that will designate a degree or level of hazard seriousness. These signal words are as follows:



DANGER! Indicates an imminently hazardous situation that, if not avoided, **WILL** result in death or serious injury; a danger that safety guards cannot protect against.

WARNING! Indicates a potentially hazardous situation that, if not avoided, **COULD** result in death or serious injury, and includes hazards that are exposed when guards are removed; also an alert to unsafe practices.

<u>CAUTION!</u> Indicates a potentially hazardous situation that, if not avoided, **MAY** result in minor or moderate injury; also an alert to unsafe practices.

INTENDED USE: 3-PT SWINGER is designed to be pulled by a ROPS- equipped tractor of proper size. It is not to be used in any other purpose other than its intended use.

BEFORE OPERATION:

- Carefully study and understand this manual. Be sure the operator has read and understands all operations before using this machine.
- Do not wear loose-fitting clothing which may catch in moving parts.
- Learn to operate this machine safely. Be alert and observe all safety practices. Machines can be hazardous in the hands of an unfamiliar, untrained or complacent operator. Never risk injury or death!
- After servicing, be sure all tools and servicing equipment have been removed from the machine.
- Be certain there is no one near the machine before starting.
- Do not use the ditcher until you are **certain** that the area in which you are preparing to work is clear. Be especially watchful for people, animals and moving vehicles that may enter the discharge path. Remember, soil may be thrown over 50 feet, rocks and other debris may go farther, so use extreme caution in any area with buildings or objects that could be damaged from flying debris.



WARNING! Do not operate this machine above 540 RPM if ditcher is rated for 540 RPM; above 1000 RPM if ditcher is rated for 1000 RPM. Excessive speed of PTO can be dangerous and could cause personal injury or damage to your tractor or ditcher.



<u>WARNING!</u> Do not exceed recommended horsepower (140 HP or less) for this machine. Excessive horsepower can be dangerous.



<u>**CAUTION!</u>** Make sure drawbar is moved to one side. Do not leave drawbar in middle of your tractor as PTO damage may occur!</u>

• Before each use, inspect the lower shaft behind the impeller wheel for material wrapped around shaft. Failure to keep shaft clear could result in bearing failure and is not covered under warranty.

DURING OPERATION:

- Keep all shields in place.
- Allow no one to stand on the left side (discharge side) of the machine while it is in operation, whether it is moving or standing still.
- NO PASSENGERS ALLOWED! Do not allow anyone to ride on ditcher at any time.

- Keep clear of all moving parts.
- Disengage the PTO and shut off tractor engine before servicing, cleaning or clearing a clogged machine.

WARNING LABELS & ILLUSTRATION

Your 3-PT 20 SWINGER comes equipped with all safety labels in place. These safety labels are designed to help you safely operate your equipment. They inform you about possible hazards associated with the normal operation or foreseeable misuse of the product and how to properly avoid those hazards to prevent physical injury or death. You are required to read and follow their directions.

- 1. Keep all safety labels clean and legible.
- 2. Replace all damaged or missing labels.
- 3. New equipment installed during repairs may require replacement safety labels to be affixed or replaced part, if missing, as specified by Hurricane Ditcher Co.
- 4. Contact your local dealer to order replacement labels.
- 5. Refer to this section for proper label placement. When installing new labels:

a. Clean placement surface with soapy water or surface cleaning solution and allow to dry.

b. Peel backing from label, carefully center and place label in proper location ensuring no creases or air pockets

c. Press label firmly onto the surface and use a straight edge to smooth the label on the machine for a secure adhesion

ITEM	<u> PART #</u>	DESCRIPTION
A1	009040	WARNING – KEEP ALL SHIELDS IN PLACE
B1	009030	WARNING – DO NOT EXCEED 1000 RPM ON PTO
C1	009010	DANGER – STAY CLEAR OF MACHINE WHEN IN OPERATION
D1	009020	DANGER – ROTATING DRIVE LINE

<u>Note:</u> Manufacturer will replace decals upon request when worn, damaged or missing.



TRANSPORTATION

If you will be transporting your ditcher on a trailer or in the back of your pickup truck, make sure the machine is safely secured. It may cause injury to yourself or others, or damage the machine if it is not securely tied down. You may wish to place boards under each parking stand and the drag plate to prevent damage to the floor of your pickup or trailer.

UNHITCHING FROM TRACTOR

- 1) Park on level ground.
- 2) Lower parking stands; insert parking stand lock pins to secure.
- 3) Lower ditcher until it is sitting firmly on parking stands and drag plate.
- 4) Release hydraulic pressure. This may require shutting off the tractor engine.
- 5) Disconnect the quick couplers from the tractor. NOTE: Always clean the quick couplers before reconnecting them to any hydraulic system.



WARNING! Always shut tractor engine off before unhooking PTO.

- 6) Pull the PTO safety slide lock (See page 13 item L5) back on the PTO and remove from tractor spline.
- 7) Place PTO in its holder.
- 8) If using a quick hitch, release the quick hitch latches, lower the quick hitch, and slowly pull forward.
- 9) If not using a quick hitch, remove the lynch pins, hitch pins, and spacers, and slowly pull forward.
- 10) Return lynch pins, hitch pins, and spacers to ditcher hitch.

USING THE "SWINGER"

Each customer will use their machine for different purposes and in slightly different ways. We cannot tell you the proper way to use your machine for your particular purpose, but we can make recommendations for various uses.

The "Swinger" is designed to make surface drainage ditches and can be used to clean small roadside ditches, as well. (Remember, the soil is thrown out the left side of the machine and may be distributed over a 50 foot area; rocks and other debris may go farther.) When straddling a roadside ditch it may be necessary to lengthen the tractor's top link to give the ditcher's impeller more pitch (angle). This will allow the ditcher to operate deeper. The maximum depth of cut is approximately 20 inches depending on how your tractor is set up (primarily tire size).

BUILDING OR REWORKING A DRAINAGE DITCH – The ditcher throws soil and debris to the left side. When possible, it is more efficient if the soil is thrown to both sides of the ditch or waterway. To do this, make your first pass in the center of your ditch or waterway. After turning around, make your second pass in the opposite direction with the right wheel of your tractor in the cut you just made. Operate the machine's impeller wheel 5-8 inches deep and travel about 2½ miles per hour. If the ditch or waterway needs to be deeper, start in the center again and work outward. If the ditch needs to be deeper but the soil is unable to be thrown out due to the steepness of the ditch bank, take an additional pass cutting soil off the left bank. This will allow you to make an additional pass traveling in the same direction cutting soil in the bottom of the ditch and make it easier to discharge the soil. Even if you have excess horsepower, it is best not to cut over 8 inches deep. Running 5-8 inches deep per pass allows a natural slope to the center of the area you are working. This same process is used when cleaning a terrace channel.

CHECKLIST BEFORE OPERATION

- Read and understand the operator's manual.
- Read all information on the safety decals on the machine.
- Check all bolts to make sure they are tight.
- Before connecting to tractor PTO and as general daily maintenance, check for free movement of driveline and/or slack in chain (See Free Movement of Driveline section on page 9-10).



WARNING! Do not operate this machine above 540 RPM if ditcher is rated for 540 RPM; above 1000 RPM if ditcher is rated for 1000 RPM. Excessive speed of PTO can be dangerous and could cause personal injury or damage to your tractor or ditcher.

- Check that all hydraulic hoses are secured and will not interfere with the tractor wheels, PTO shaft or any other part.
- Be sure the PTO is hooked up correctly and will not interfere with the drawbar on the tractor.
- Be sure the hitch is secure.
- Check your tractor's hydraulic oil reservoir level (See Lubrication section on page 8-9).
- Lubricate machine (See Lubrication section on page 8-9).
- Check PTO forward travel. PTO must slide freely and must not bottom out or damage to bearings and shaft may occur.
- Before running machine each season or once per year, remove the shear bolts and lock nuts from the PTO shear yoke assembly to verify that the shear yoke is not corroded and will move freely. Reinstall shear bolts and lock nuts after inspection is complete.

OPERATING INSTRUCTIONS

- 1) Keep all shields in place.
- 2) Keep hands, feet and clothing away from all moving parts.
- 3) Do not allow anyone to ride on this equipment at any time.
- 4) Learn to operate this machine safely. Be alert and observe all safety practices. Machines can be hazardous in the hands of an unfamiliar, untrained or complacent operator. Do not risk injury or death!
- 5) Do not allow anyone to stand on the left side (discharge side) of the machine while it is in operation, whether it is moving or standing still.
- 6) Disengage PTO and shut off tractor engine before servicing, cleaning or clearing a clogged machine.
- 7) When the machine is in operation, keep in mind that soil, roots, rocks and other debris may be thrown 50 feet or more out the discharge side causing damage to an object or harm to a person within its range.
- 8) Use rubber straps to secure hoses on the tractor to keep them from getting into the PTO.
- 9) Be sure to keep the slip shaft portion (See page 13 item L9) of the PTO shaft well lubricated (See Lubrication section on page 8-9).

- 10) Do not engage PTO when tractor is running at high RPM. Slow RPM to idle before engaging PTO.
- 11) There are two (2) shear bolts in the PTO shaft (See page 13 item L4). If these bolts shear, stop the tractor, disengage the PTO, shut off the tractor engine, and replace the sheared bolts.



WARNING! Shear bolts are designed to break under a specified load. Do not use a stronger bolt than is specified by manufacturer!

12) In normal conditions, when mud or trash becomes a problem, stop forward travel and allow the machine to clear itself before moving ahead. Note: The 6 paddle impeller wheel should be used for extremely trashy conditions (See page 13 item M1A).



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WARNING! Do not exceed recommended horsepower (140 HP or less) for this machine. Excessive horsepower can be dangerous and could cause personal injury or damage to your tractor or ditcher.



WARNING! Do not use this machine with a PTO adaptor. The Agricultural Driveline Manufacturers Association and The Association of Equipment Manufacturers discourage the use of PTO adaptors due to serious safety and operational concerns.

MAINTENANCE

If you are not going to use your machine for a period of time, paint the areas where the soil has worn off the paint (for example: paddles). You should also apply a thin coat of grease to the exposed hydraulic cylinder rod to prevent rusting and corrosion. Storing inside or covering with a tarp will extend the life of your ditcher.

Every six (6) months, if not using your machine, turn the impeller wheel a couple of revolutions in order to distribute the gear box oil over the chain and other gear box components.

After approximately every ten (10) hours of use, disconnect from tractor and check for the free movement of driveline and proper chain tension (See Free Movement of Driveline section on page 9-10).

When the impeller paddles are slightly worn, weld with a hard surfacing rod on each paddle to build them back up. Use a welding rod that is equal to a 60RC Rockwell hardness. NOTE: Be sure to add the same amount of material to each paddle to keep the impeller assembly in balance. Replace paddles when worn flush with the impeller wheel.

If any component of your ditcher appears to be worn and needs replacement, please contact your dealer for replacement parts.

Each season, before operating your ditcher, remove the shear pins in the PTO and e make sure the shear yoke is not seized up.

LUBRICATION

The "Swinger" has twenty-five (25) grease fittings. Refer to the Parts Illustration on page 13 for the location of these fittings. Read carefully the information below on lubricating those areas. NOTE: Damage may occur due to improper lubrication.

A – **DAILY** (every 8 hours) – Grease the following with gun grease:

1 – The slip joint between PTO halves (remove from tractor, separate halves, apply gun grease to shaft, and reassemble).

2 – The two (2) universal joints at the ends of each PTO half. Slowly apply grease as to not overgrease and blow out seals.

3 – The two (2) universal joints (three grease fittings) on constant velocity joint at rear of drive shaft. Slowly apply grease as to not overgrease and blow out seals.

4 – The eight (8) hinge joints on frame arms.

5 - The two (2) grease fittings on the main frame pivot.

6 – Check your tractor's hydraulic oil reservoir level. If system is empty (as when new), the ditcher's cylinder will require approximately 3/4 gallon of oil. Use a quality hydraulic oil of your choice.

B – 24 HOURS OF OPERATION

1 – Check the enclosed gearbox oil level. Fill to the oil level check plug (about 4 inches above bottom) on back side of gearbox. The factory installed gearbox oil is an ISO 680 industrial gear oil. Use of this oil is recommended as it is specifically formulated for peak performance of your Hurricane Ditcher.

C – 40–60 HOURS OR 1–2 WEEKS OF OPERATION – Grease the following with gun grease: 1 – Four (4) flange ball bearings on gearbox – 1 pump each. Slowly apply grease as to not overgrease and blow out seals.

2 – Three (3) pillow block bearings on drive shaft – 1 pump each. Slowly apply grease as to not overgrease and blow out seals.

3 – Two (2) grease fittings on ratchet jack.

D – 100 HOURS OF OPERATION

1 – Remove the inspection plate on the top of the gearbox; check for wear on bearings, sprockets, chain, and idler; and adjust the idler assembly as required (*See Idler Adjustment section on page 10*). Reinstall inspection plate using quality grade silicone sealant under the inspection plate.

FREE MOVEMENT OF DRIVELINE

When adjusted properly and operating correctly, the driveline should move freely by hand with no slack in the chain.



WARNING! Operation of improperly adjusted machine will cause damage to your ditcher and possibly to your tractor!



WARNING! Do not use your ditcher with a PTO adaptor. The Agricultural Driveline Manufacturers Association and The Association of Equipment Manufacturers discourage the use of PTO adaptors due to serious safety and operational concerns.

To check for free movement of driveline and proper tension on chain:

Step 1 – Grasp the front PTO yoke and quickly rock it back and forth. If the PTO moves before the impeller turns, the chain requires tightening (*See Idler Adjustment section on page 10*).

Step 2 – If the impeller is difficult to move, check for debris lodged in the machine. Remove any interfering debris and return to Step 1. If no interferences are found, continue to Step 3.

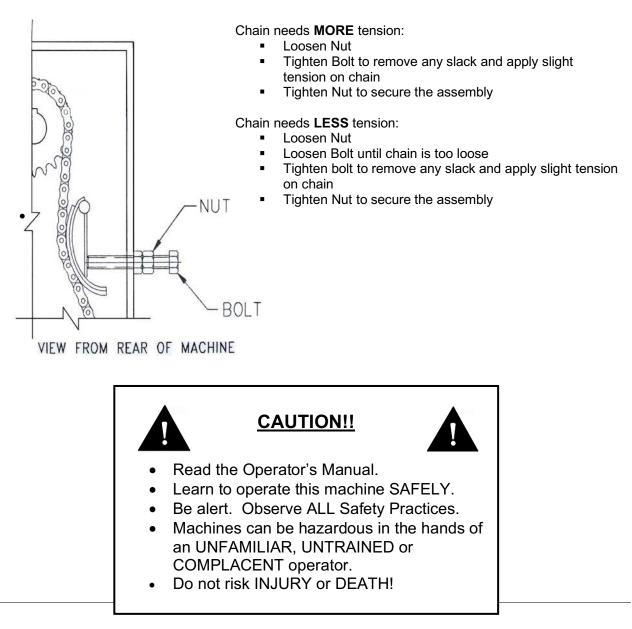
Step 3 – Check the pillow block bearings on the drive shaft. If damaged, repair as needed and return to Step 1. If no damage is found, continue to Step 4.

Step 4 – Remove the inspection plate on top of the gearbox and carefully inspect bearings, sprockets, chain, and idler for damage. If damage is found, repair as needed, reinstall inspection plate using quality grade silicone sealant under the inspection plate and return to Step 1. If no damage is found, continue to Step 5.

Step 5 – Release chain tension until impeller wheel and PTO turn freely (See Idler Adjustment section below).

IDLER ADJUSTMENT

Remove the inspection plate on top of the gearbox. Visually inspect the UHMW plastic wear pad for wear or damage (See page 13 item D5). Replace if needed. The idler adjustment assembly has one (1) bolt and one (1) nut (See illustration below). The bolt holds the idler assembly against the chain and the nut acts as a jam nut to lock the assembly in position. Reinstall inspection plate using quality grade silicone sealant under the inspection plate.



Hurricane Ditcher Company, Inc. shall be considered the "Company" throughout this warranty statement.

The Company warrants each new Company product to be free from defects in material and workmanship. This warranty is applicable only for the normal service life expectancy of the product or components, not to exceed twelve (12) consecutive months from the date of delivery of the new Company product to the end user for personal use. This warranty shall not exceed ninety (90) days from the date of delivery to the end user for commercial use.

Under no circumstances will it cover any merchandise or components thereof, which, in the opinion of the Company, has been subjected to misuse, unauthorized modifications, alterations, an accident, or if repairs have been made with parts other than those obtainable through the Company. The Company in no way warrants tires or other trade accessories since their respective manufacturers warrant these items separately. The Company's obligation under this warranty shall be limited to repairing or replacing free of charge to the original purchaser, any part that, in the Company's judgment, shall show evidence of such defect, provided further that such part shall be returned within thirty (30) days from the date of failure to the Company routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid.

This warranty shall not be interpreted to render the Company liable for injury or damages of any kind or nature to person or property. This warranty does not extend to the loss of crops, loss because of delay in harvesting, or any expense or loss incurred for labor, substitute machinery, rental or for any other reason.

Except as set forth above, the Company shall have no obligation or liability of any kind on the account of any of its equipment and shall not be liable for special or consequential damages. The Company makes no other warranty, expressed or implied, and specifically, the Company disclaims any implied warranty or merchantability or fitness for a particular purpose. Some states or provinces do not permit limitations or exclusions of implied warranties or incidental or consequential damages, so the limitations or exclusions in this warranty may not apply in those areas.

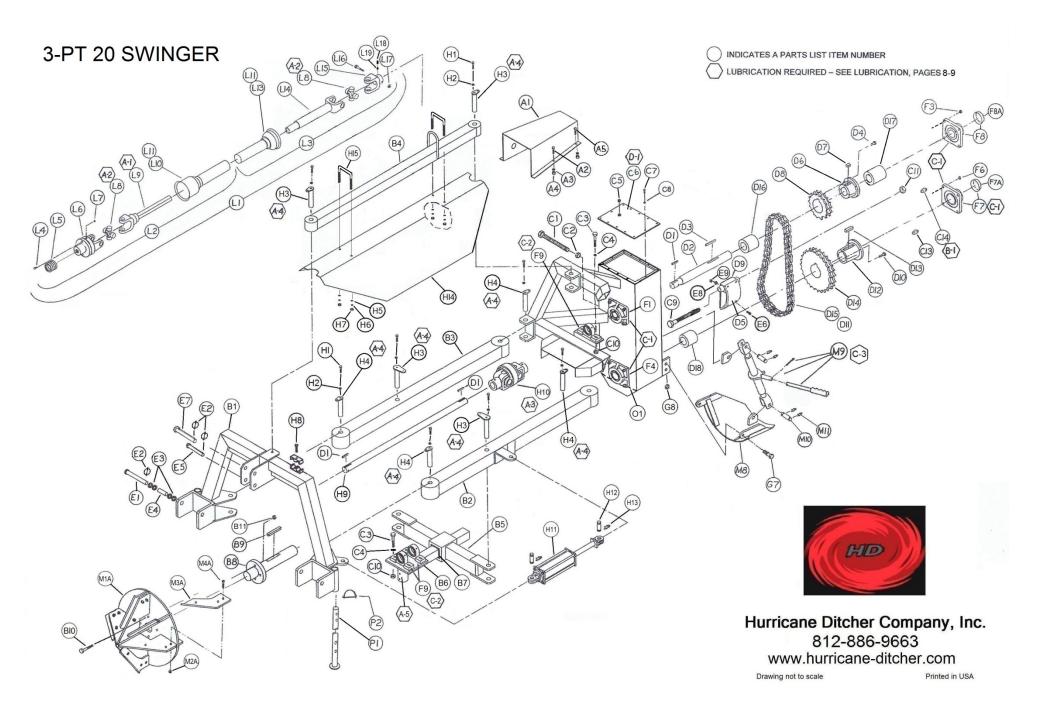
This warranty is subject to any existing conditions of supply, which may directly affect our ability to obtain materials or manufacture replacement parts. The Company reserves the right to make improvements in design or changes in specifications at any time, without incurring any obligation to owners of units previously sold. No one is authorized to alter, modify, or enlarge this warranty. To enhance warranty, replace decals when worn, damaged or missing.

No warranty will be issued for bearing failure resulting from material wrapping around impeller shaft.

This warranty is not valid unless registered with Company within 30 days from the date of delivery to the end user.

HURRICANE DITCHER COMPANY, INC. 2425 Cathlinette Road Vincennes, IN 47591 812-886-9663 www.hurricane-ditcher.com info@hurricane-ditcher.com

ITEM	PART #	DESCRIPTION	QTY	ITEM	PART #	DESCRIPTION	QTY
A1	001571	PTO SHIELD	1	F1	000105	FLANGE BALL BEARING 1-15/16	1
A2	000980	HEX HEAD CAP SCREW 1/4-20UNC X 1	2	F3	001280	HEX LOCK NUT 1/2-20UNF	8
A3	001165	SPLIT LOCKWASHER 1/4	4	F4	000120	FLANGE BALL BEARING 2-3/16	1
A4	001110	HEX NUT 1/4-20UNC	4	F6	001285	HEX LOCK NUT 5/8-18UNF	8
A5	000975	HEX HEAD CAP SCREW 1/4-20UNC X 3/4	2	F7A	000220	BEARING CAP 2-3/16	1
B1	004375	3-POINT HITCH FRAME	1	F8	000115	FLANGE BALL BEARING 1-15/17	1
B2	004380	MAIN ARM FRAME (LEFT)	1	F8A	000215	BEARIMG CAP 1-15/16	1
B3	004385	MAIN ARM FRAME (RIGHT)	1	F9	000209	PILLOW BLOCK BEARING 1-3/4	3
B4	004390	MAIN ARM FRAME (CENTER)	1	G7	001440	HEX HEAD CAP SCREW ³ / ₄ -16UNF X 2-1/4 GR. 8	2
B5	004395	MAIN FRAME CROSS ARM	1	G8	001290	HEX LOCK NUT ¾-16UNF	2
B6	004400	BEARING MOUNT SLIDE ASSEMBLY	1	H1	001005	HEX HEAD CAP SCREW 3/8-16UNC X 1 GR. 5	8
B7	001720	POLY SLIDE WEAR SLEEVE	1	H2	001170	SPLIT LOCKWASHER 3/8	8
B8	003135	SHAFT WELDMENT 2-3/16 X 17-1/8 WITH ¾ COLLAR	1	H3	003719	PIN 1-3/16 X 6-5/8" STRESS PROOF	8
B9	002790	SQUARE KEY 1/2 X 2 – 7/8	1	H5	001470	FLAT WASHER 1/2	4
B10	001410	HEX HEAD CAP SCREW 5/8 – 18UNF X 2-1/4 GR. 8	4	H6	001175	SPLIT LOCKWASHER 1/2	4
B10 B11	001285	HEX LOCK NUT 5/8-18UNF	4	H7	001265	HEX LOCK NUT ½-13UNC	4
C1	003580	IDLER ADJUSTING SCREW ¾-10UNC X 5-1/2	1	H8	001203	HOSE CLAMP ASSEMBLY	4
C2	001485	HEX NUT ¾-10UNC	1	H9	003225	DRIVE SHAFT 1-3/4 X 47	1
C3	001370	HEX HEAD CAP SCREW ½-20UNF X 2 GR. 8	6	H10	000760	50* CONSTANT VELOCITY JOINT	1
C4	001470	FLAT WASHER 1/2	6	H11	002105	HYDRAULIC CYLINDER 3-1/2 X 8	1
C5	000876	BREATHER PLUG 1" (OIL FILL PLUG)	1	H12	002132	CYLINDER PIN (INCLUDED WITH H11)	2
C6	003491	INSPECTION PLATE (TOP)	1	H13	002133	CLIP PIN (INCLUDED WITH H11)	4
C7	001010	HHCS 3/8-16UNC X 1-1/4 GR. 8	14	H14	001575	DRIVE SHAFT SHIELD	1
C8	001170	SPLIT LOCKWASHER 3/8	14	H15	002814R	U-BOLT 1/2 X 3 X 4	2
C9	001458	HEX HEAD CAP SCREW ¾-10UNC X 11 GR. 8	1	H16	002050	HYDRAULIC HOSE ½ X 5' 2 WIRE W/ ½ NPT MALE END	2
C10	001280	HEX LOCK NUT 1/2-20UNF	6	H17	001906	1/2 NPT ISO TIP	2
C11	001234	NYLON HEX LOCK NUT ¾-10UNC	1	L1	000659	PTO SHAFT COMPLETE (INCLUDES ITEM L4-L19)	1
C13	000885	PIPE PLUG ¾ NPT (OIL DRAIN PLUF)	1	L2	000658	PTO SHAFT FRONT HALF (INCLUDES ITEMS L4-L11)	1
C14	000870	PIPE PLUG 1/4 NPT (OIL LEVEL CHECK PLUG)	1	L3	000700	PTO SHAFT REAR HALF (INCLUDES ITEMS L8, L11-L19)	1
C15	003502.1	SIDE ACCESS DOOR (NOT SHOWN)	1	L4	001005	SHEAR BOLT-HHCS 3/8-16UNC X 1 GR. 5 OR GR. 8	2
C16	001010	HHCS 3/8-16UNC X 1-1/4 GR. 5 (NOT SHOWN)	12	L5	000725/735	PTO SAFETLY SLIDE LOCK ASSEMBLY****	1
C17	001170	SPLIT LOCKWASHER 3/8 (NOT SHOWN)	12	L6	000770/750	SHEAR YOKE ASSEMBLY****	1
D1	003111	SQUARE KEY 3/8 X 1-7/8	3	L7	001255	HEX LOCK NUT 3/8-16UNC	2
D2	003107	UPPER SHAFT 1-15/16 X 25	1	L8	001890	UNIVERSAL JOINT 1-3/4 55 SERIES	2
D3	003112	SQUARE KEY 1/2 X 2-1/2	1	L9	000820	YOKE AND SHAFT	1
D4		HHCA 3/8-16UNC X 1-1/4 (INCLUDED W/ D6)	3	L10	000770	PTO OUTER GUARD (FRONT HALF)	1
D5	003659	IDLER UHM PLASTIC 5 X 8	1	L11	000715	RETAINER & NYLON KIT (NOT SHOWN)	2
D6	000380	SPLIT TAPER BUSHING 1-15/16	1	L13	000775	PTO INNER GUARD (REAR HALF)	1
D7		RECTANGULAR KEY 1/2 X 3/4 (INCLUDED W/ D6)	1	L14	000785	YOKE, TUBE AND SLIP SLEEVE	1
D8	000300	18 TOOTH D80 SPROCKET	1	L15	000815	YOKE 1-3/4 KEYED	1
D9	003690	IDLER ASSEMBLY	1	L16	001320	HEX HEAD CAP SCREW 3/8-16UNC X 3-1/2 GR. 8	1
D10		HHCS 3/8-16YNC X 1-3/4 (INCLUDED W/ D12)	3	L10	001320	HEX LOCK NUT 3/8-16UNC	1
D10	000485	CONNECTING LINK D80	1	L17 L18	001233	SET SCREW 3/8-16 X 3/8	1
D11 D12	000485	SPLIT TAPER BUSHING 2-3/16	1	L10 L19	002811	SET SCREW 3/8-16 X 3/6	1
D12 D13		RECTANGULAR KEY ½ X ¾ (INCLUDED W/ D12)	1	M1A	002812	6 PADDLE IMPELLER WHEEL	1
D13 D14	000325	30 TOOTH D80 SPROCKET	1	M2A	003395	HEX LOCK NUT ½-13UNC	18
D15	000555	DOUBLE STRAND ROLLER CHAIN D80 (72 PITCH)	1	M3A	003305	HARD SURFACED BOLT-ON PADDLE	6
D16	003535	SPACER 1-15/16 ID	1	M4A	000925	FLATHEAD PLOWBOLT ½-133UNC X 1-1/2 GR. 8	18
D17	003540	SPACER 1-15/16 ID	1	M8	003510		1
D18	003542	SPACER 2-3/16 ID	1	M9	001840	RATCHET JACK (INCLUDES HANDLE AND COTTER PIN)	1
E1	003715	HITCH PIN 1-1/8 X 10	2	M10	001839	CLEVIS PIN (INCLUDED WITH M9)	2
E2	001926	LYNCH PIN	4	M11	001838	PIN C;IP (INCLUDED WITH M9)	4
E3	003712	HITCH SPACER 1-1/4 ID X 1	8	01	002272.3	ISO 680 INDUSTRIAL GEAR OIL (1-1/2 GALLON)	1
E4	001865	SPACER 1-1/8 ID X 2-3/4 LONG	2	P1	003651	PARKING STAND (2-PIECE SET)	2
E5	001960	TOP LINK PIN CAT. 2	1	P2	001975	PARKING STAND LOCK PIN	4
E6	001220	ELEVATOR BUCKET BOLT 1/4-20UNC X 1	4				
E7	001965	TOP LINK PIN CAT. 3	1			****SPECIFY 1-3/8-21 SPL OR 1-3/4-20 SPL****	
E8	001165	SPLIT LOCKWASHER 1/4	4			UPDATED AUGU	ST, 2019
		HEX NUT 1/4-20UNC	4	1			
E9	001110						



ITEM	PART #	DESCRIPTION	QTY
		540 RPM OPTION	
D6	000390	SPLIT TAPER BUSHING 1-15/16	1
D7		RECTANGULAR KEY 1/2 X 3/4 (INCLUDED WITH 6)	1
D8	000325	30 TOOTH D80 SPROCKET	1
D9	003691	IDLER ASSEMBLY	1
D15	000557	DOUBLE STRAND ROLLER CHAIN D80 (78 PITCH)	1
E6	001220	ELEVATOR BUCKET BOLT 1/4-20UNC X 1	4
E8	001165	SPLIT LOCKWASHER 1/4	4
E9	001110	HEX NUT 1/4-20UNC	4
L4	001005	SHEAR BOLT – HHCS 3/8-16UNC X 1 GR. 5 OR GR. 8	1
L5	000735	PTO SAFETY SLIDE LOCK ASSEMBLY	1
L6	000745	SHEAR YOKE ASSEMBLY	1
L7	001255	HEX LOCK NUT 3/8-16UNC	1

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DATE	SERVICE PERFORMED	SERVICE TECHNICIAN

THE "SWINGER" BY: HURRICANE





HURRICANE DITCHER CO., INC.

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