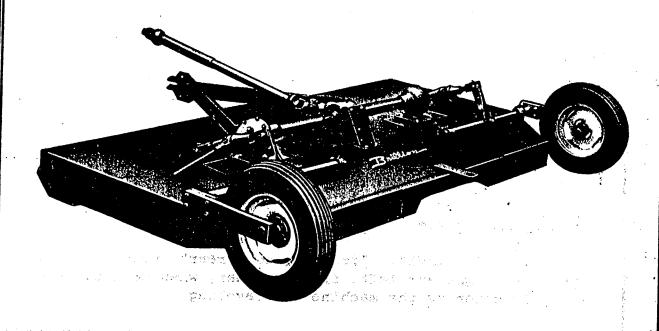
REPAIR PARTS CATALOG OPERATOR'S MANUAL

Brillian 144" ROTARY SHREDDER

MODEL RSS-144-01 THRU -09



BRILLION IRON WORKS, INC.
Brillion, Wisconsin, U. S. A.

Brillion

ROTARY SHREDDER

Your Brillion Shredder is built with the best materials and workmanship available. All machines are adjusted at the factory to assure their proper mechanical operation. Minor slip clutch adjustments may have to be made, to prevent premature failure of parts.

Many future difficulties can be avoided by following the operating instructions, and by correctly adjusting and lubricating the machine when necessary.

Location Reference

"Right" and "left", "front" and "rear" refer to the operators right and left, front or rear, when he faces the same direction as the machine is traveling.

Page-2

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SPECIFICATIONS

Model Z Shredder
Cutting Width 139" - 144" (Adjustable)
Cutting Height
Wheel Positions
Blades Two sets - heat treated alloy steel
Center Cross Drive
Blade Drive
Bearings
Drive Coupling Flexible - multiple disc involute spline hubs
Power Shaft Heavy duty - two joint - needle bearing - integral shield
Shear Pin Coupler (Optional) (2) 5/16" diameter pins with replaceable bushings
Slip Clutch (Optional) Multiple disc - adjustable
Wheel Sizes Three types available - (1) 14" Pneumatic (2) 15" Pneumatic (3) Laminated Rubber
Hitch Drawbar type only - ad- justs to tractor.

OPERATION

The Brillion Shredder is designed to operate with tractors having either 540 or 1000 rpm PTO speeds. If a change of tractors is contemplated, it will be necessary to order the proper tractor yoke, and also make the necessary gear changes in the spindle drives. It is important too that the Brillion Shredder be used only on tractors having a standard ASAE drawbar and of ample power to do the required job.

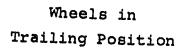
Before attempting to operate your shredder, BE SURE TO PUT OIL IN ALL OF THE GEAR BOXES. Use SAE #90 oil in winter and #140 in summer. Grease the PTO joints, and lift shaft bearings. The wheel bearings have been packed at the factory.

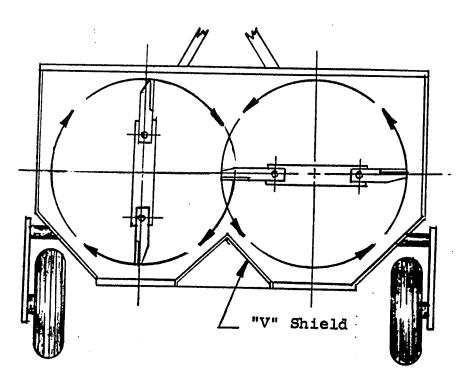
With the wheels in the forward position, the shredder will balance very well, but with the wheels in the rearward position, the shredder will be quite heavy on the drawbar. The drawbar jack should be used in hitching and storage of the shredder.

The two outer blade drive boxes can be moved in or out to adjust the blade circle overlap. The greater the amount of overlap, the less will be the chance of stripping. Some lap is desirable when cutting grass, grain, straw, etc. The amount of overlap required to eliminate stripping is best determined by the operator due to variations in field conditions. Working in row crops usually requires no overlap. This will allow a wider cut, and provide overlap in the outside row centers.

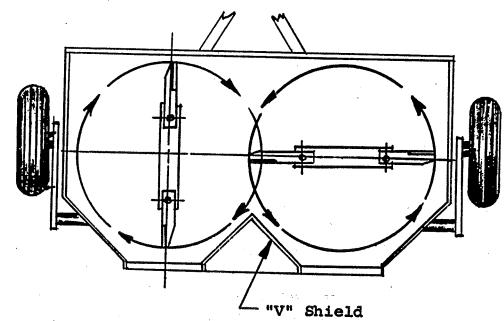
The machine when shipped has a "V" shield attached to the rear bottom side of the hood. When shredding stalks, etc., this shield should remain in position. This will result in shorter cut material and uniform spreading of material across the rows. When shredding corn stalks, best results can be obtained by traveling in the opposite direction to which the picker had traveled. This allows the corn to remain attached to the root structure until the entire stalk has been cut up. The hood should be dropped down in front, with the rear of hood 8" to 10" above the ground. The forward speed of travel should be 4 to 5 miles per hour. Hood position and forward speed can be varied to produce the desired result. Too slow a forward speed will result in a poor job of shredding.

WHEEL LOCATION





Wheels in Side Mounted Position



Wheel Positioning

The wheel location can be changed simply by removing the 4 bolts on the lift shaft plates, and mounting the wheels in the position desired. When working close to fences, it is advisable to mount the wheels in the trailing position, with the wheels facing in toward the center of the machine. This will allow cutting closer to fence rows, trees, etc.

Cutting Height

The desired cutting height can be controlled by the tractor remote control cylinder or the ratchet screw jack. The maximum cutting height will be slightly less when the shredder is mounted on laminated tires than when mounted on pneumatic tires, due to the slightly smaller diameter of the laminated tires.

Leveling the Shredder

When attaching the shredder to the tractor, level the shredder by adjusting the front hitch. It is advisable to operate the unit level or slightly low in front.

Shear Pin Coupler

The twin pin shear coupler will transmit ample power to operate the shredder satisfactorily and also provides the necessary safety to prevent shock or overload damage to the shredder and tractor. When replacing shear pins, never use hardened pins or bolts. Use regular 5/16 x 2-1/2" long bolts. Do not draw the shear pin nuts up too tight, rather allow about 1/64" end play. Use locknuts or double nuts to keep bolts from loosening. The shear flanges have hardened bushings. Broken or worn bushings should be replaced to provide satisfactory operation of the shear coupling.

Slip Clutch

The multiple disc clutch is intended to protect the shredder and tractor against shock and overload damage. It also eliminates the downtime created by replacing shear pins. If the clutch runs hot during normal operation of the tractor, draw up 1/6 turn on each of the (12) adjusting screws. Continue to operate and recheck for heating. Do this until excessive slippage and heating are eliminated.

Periodic adjustment will be necessary to compensate for wear on the clutch facings.

Change-Over Instructions for Spindle Drives from 540 to 1000 RPM Operation

This change-over is accomplished by reversing the position of the bevel gear and pinion in each of the outboard spindle drives. Place the input gear on the output shaft and the output pinion onto the input shaft.

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When changing the machine over for 1000 rpm PTO operation, the tractor joint will have to be changed to a 21 tooth spline yoke. (Order part no. 1D-791 Tractor Yoke.)

Flexible Coupler

The flexible coupling shafts connecting the two outboard blade drive boxes to the center drive box are designed to absorb shock as well as misalignment. When replacing worn coupler discs, draw up evenly on the (6) coupler bolts, until the discs are compressed to an over-all width of 1-3/4" (measuring from outside to outside of the rubber discs). This will provide the proper compression of the discs and washers to transmit the power to the blade drives. Be sure the cotter pins are inserted in each of the slotted nuts.

Lubrication

The center (T-Box) gear housing and the right and left blade drive gear housings will require lubrication, before the shredder can be operated. A caution tag similar to the one found on the shredder is pictured below.

CAUTION

THIS TRANSMISSION BOX SHIPPED WITHOUT OIL!

BEFORE STARTING MACHINE

ADD OIL

SUMMER S.A.E. 140 WINTER S.A.E. 90

Follow the lubrication instructions found on this tag and check the level of oil in the drives as shown in the chart below.

Center "T" Box

Fill to level with SAE 140 gear lubricant.

Check oil level daily.

Blade Drive Units

Fill to level with SAE 140 gear lubricant.

Check oil level daily.

Wheel Hubs

Lubricated at factory. Repack bearings

once a year.

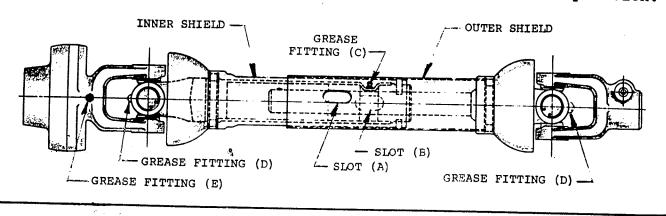
Lift Shaft Bearings

Grease after each 10 hours of operation.

Universal Joint Shaft

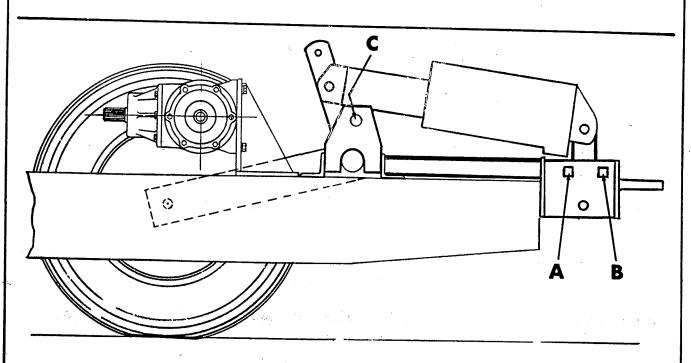
Grease after each 10 hours of operation (for lubrication of PTO shaft, see chart below).

To grease the square shaft in the PTO, it may be necessary to detach the universal joint from the tractor. Rotate and slide the outer shield until slot (A) lines up with slot (B) in the inner shield, then rotate both shields until the grease fitting (C) is in line with the openings. Also grease fittings at (D) and (E). Grease all PTO fittings after each 10 hours of operation.



Manual and Hydraulic Lift

The RSS-144 Rotary Shredder is made available for either the remote hydraulic cylinder lift or the manual ratchet jack lift. Two ratchet jacks are required for the latter type of lift, while one remote tractor cylinder is required for the hydraulic lift. The hydraulic cylinder should be the standard ASAE 8" stroke type. Instructions for attaching and detaching of the remote tractor cylinder and operation of the shredder lift follows - -



RSS-144 SHREDDER

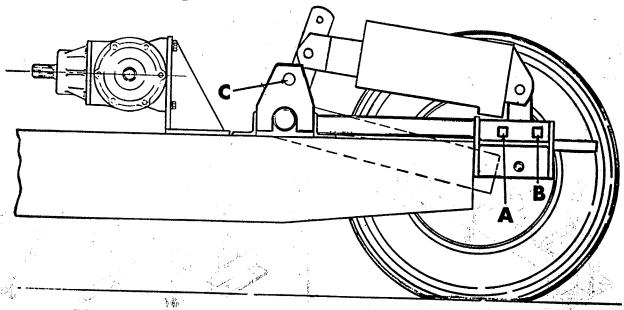
WITH

WHEELS MOUNTED FORWARD

Charle into the secret (See following page for instructions)

Instructions for Attaching Remote Hydraulic Cylinder

- With shfedder wheels forward (side mounted) (1)
 - Remove square pin from holes (A) or (B).
 - Attach rear yoke of cylinder to rocker arm -2and the cylinder rod yoke to the lift arm.
 - Retract cylinder enough to allow placing of square pin through hole (B).
 - Secure square pin with hair pin cotter. 4-
- (2) To lock wheels for transport and removal of tractor cylinder
 - Fully extend tractor cylinder.
 - Place round pin through hole (C) in the forward bracket and secure with hair pin cotter.
 - Retract cylinder until rocker arm is away from square pin at (B).
 - 4- Remove cylinder.
- (3) When shredder wheels are rear mounted (trailing position)
 - Remove square pin from holes (A) or (B).
 - Fully retract cylinder and attach the rear yoke of the cylinder to the rocker arm - and the cylinder rod yoke to the lift arm.
 - Extend the cylinder enough to allow placing the square pin through hole (A).
 - Secure square pin with hair pin cotter.
- (4) To lock wheels for transport and removal of tractor cylinder.
 - Fully retract hydraulic cylinder.
 - Place round pin through hole (C) in the forward bracket and secure with hair pin cotter.
 - Extend cylinder until rocker arm is away from square pin at (A)
 - Remove cylinder.

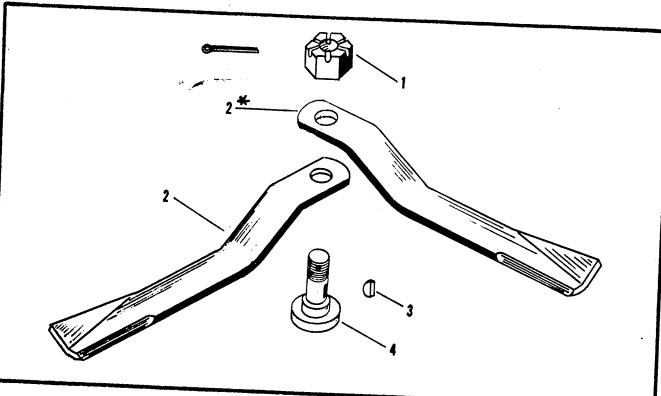


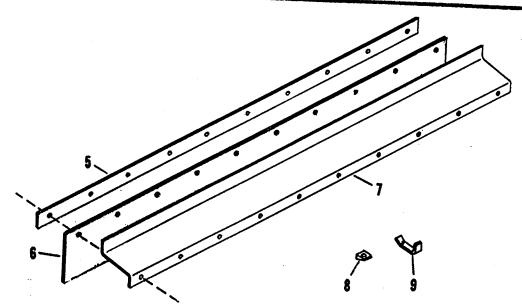
Page-10 Olionus and ae8)

		HOOD, DRAWBAR AND AXLE ASSEMBLY
Index No.	Part No.	
1 2 3 4 5 6 7 8 * 9 10 11 * 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	1D-293 1D-562 9C-373 9C-384 9C-385 1D-315 9C-3366 9C-366 4C-758 4C-778 9C-362 9C-363 9C-359 9C-720 5C-910 5C-913 5C-914 5C-907 5C-916 8C-470 5C-916 8C-470 5C-911 1D-966 1D-989 1D-989 1D-989 1D-989 1D-989 1D-981 1D-961 2D-603 2D-613 2D-613 2D-631 1D-933 2D-671	Heavy Duty Hitch Drawbar Jack Drawbar Assembly Cover Plate Cover Plate Gearbox Bracket Hood Assembly R. H. Axle Bearing Assembly L. H. Axle Bearing Assembly Bottom Axle Bearing Assembly Bottom Axle Bearing L. H. Bottom Axle Bearing L. H. Bottom Axle Bearing L. H. Axle Assembly R. H. Axle Assembly R. H. Axle Assembly R. H. Axle Assembly Seal Bearing Cone Bearing Cup Wheel Hub Bearing Cup Washer Wheel Rim - 15" Wheel Rim - 14" Cap Wheel Bolt Slotted Nut Bearing Cone Thru Axle Assembly Cylinder Mount Bracket - Used on 0262 - 0362 - 0363 Hose Support Hose Clamp Plunger Assembly Retaining Ring Cylinder Bracket & Hook Assy. Rocker Arm Rocker Lock Pin Rocker Lock Pin Rocker Lock Pin Rocker Pin Assy. "V" Shield 6.00 x 9 Laminated Tire & Rim 6.00 x 9 Laminated Tire & Rim 6.00 x 9 Laminated Tire Kit (2 Wheels with Bolts) Rear Hitch Assembly
	,	

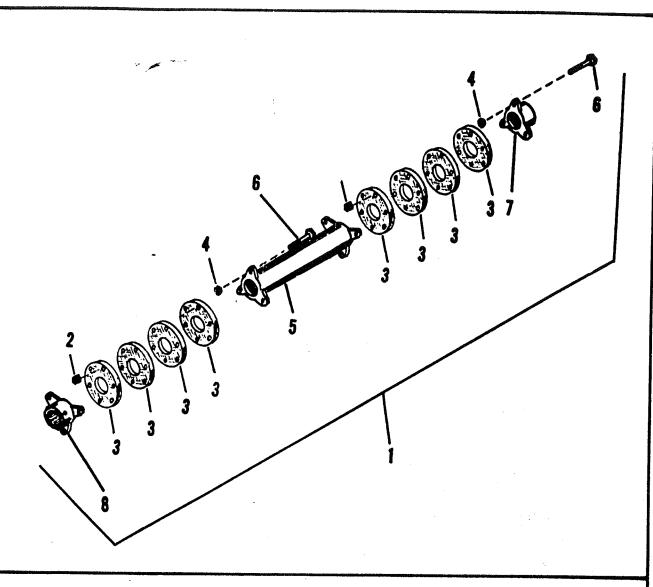
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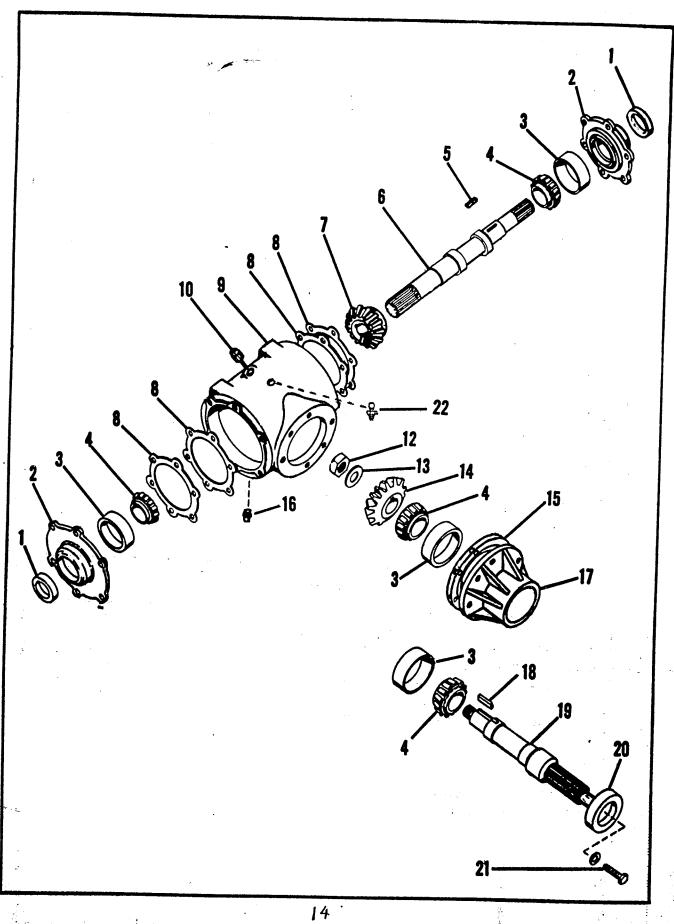


		BLADE & SHIELD ASSEMBLIES		
Sym.	Part No.	Description		
1. 2. 2.* 3. 4. 5. 6. 7. 8.	8C-609 8C-599 9C-331 9C-424 9C-421 2D-125 2D-123 2D-127 7C-22 2D-181	Slotted Nut Swinging Blade - R. H. Swinging Blade - L. H. Woodruff Key Pivot Bolt Clamp Strap Shield Strip 36" Shield Bracket Bevel Washer Clip		• 1746 1746 1746 1746 1746 1746 1746 1746



HEAVY DUTY COUPLER ASSEMBLY

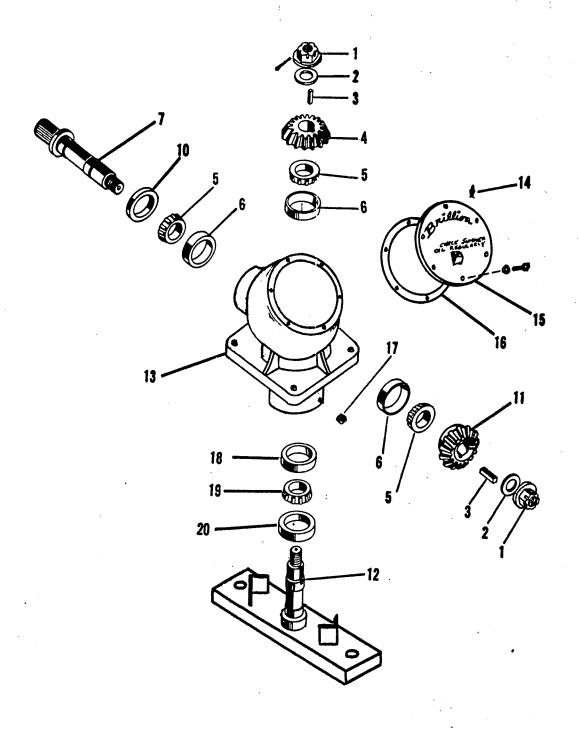
Index No.	Part No.	Part Name
1 2 3 4 5 6 7 8	1D-726 1D-724 1D-206 1D-205 1D-745 1D-725 1D-531 1D-529	Heavy Duty Coupler - Complete Castellated Nut 6" Coupling Disc Drive Washer Drive Tube Coupling Bolt Sliding Spider Spider With Pin Hole
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CENTER DRIVE ASSEMBLY

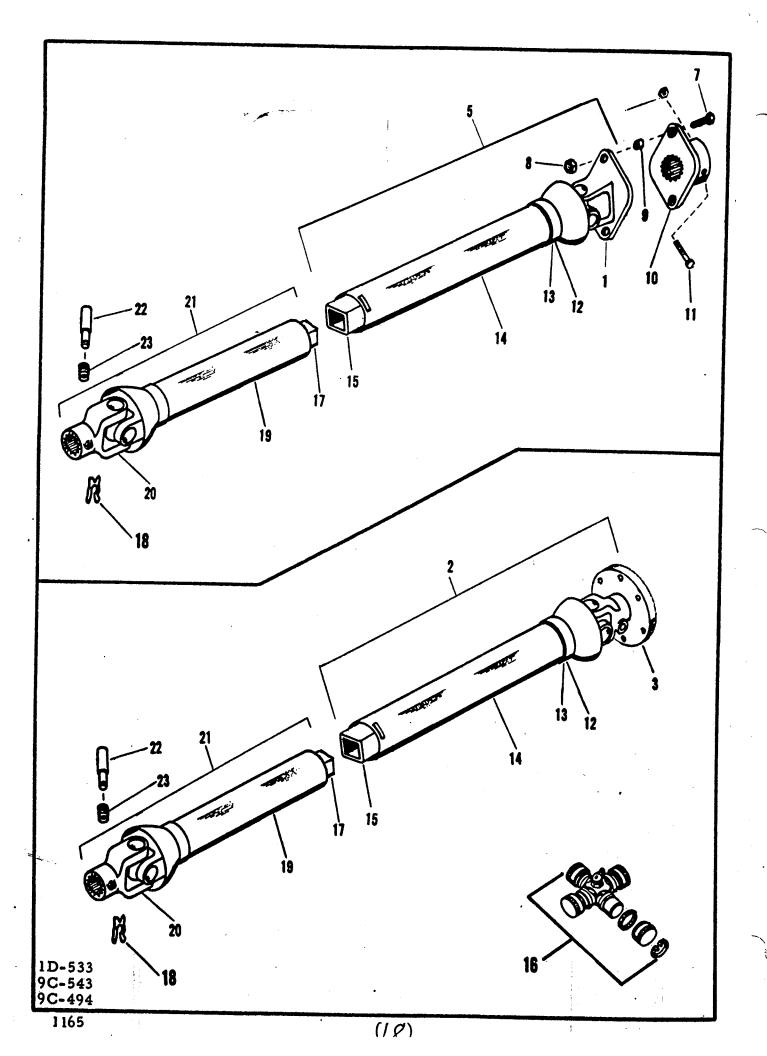
Index		Those will be a second of the	
No.	Part No.	Description	Used On Model No.
8 9 10 12 13 14 15 16 17 18 19 20 21	9C-423 3D-577 4C-837 9C-332 1D-94 1D-159 9C-430 5C-516	Gearbox Assembly (Complete) Gearbox Assembly (Complete) Seal Bearing Flange Bearing Cup #362-A Bearing Cone #367 Key Output Shaft Gear - Output Gear - Output Shim (.005") Shim (.007") Shim (.010") Gear Housing Dipstick Plug Assembly Bearing Locknut Bearing Lockwasher Gear - Input Gear - Input Shim (.005") Shim (.007") Shim (.001") Pipe Plug (3/8-18 N. P. T.) Bearing Carrier Key Input Shaft Seal Shear Joint Ret. Screw Breather Valve	01 thru 06 07 thru 08 All Models All Models All Models All Models All Models All Models Ol thru 06 All Models
	00011	ering gears as repairs, for all Center Drives, order of 3D-348 and 3D-349. (New gears should always be a sets. Never attempt to run new and worn gears	

Page 15



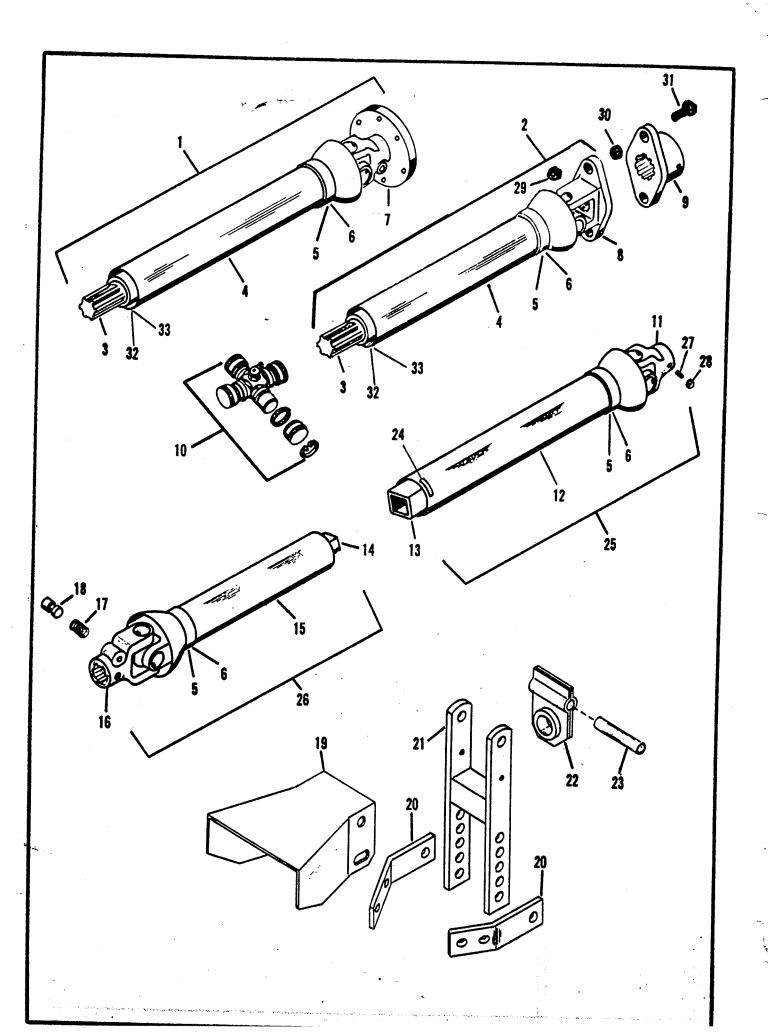
BLADE DRIVE ASSEMBLY

	BLADE DRIVE ASSEMBLY						
Index No.	Part No.	Description	Used On Model No.				
	9C-393	Gear Box Assembly 540 RPM	01				
	1D-101	Gear Box Assembly 540 RPM	02				
	1D-792	Gear Box Assembly 540 RPM	03 thru 06				
	1D-950	Gear Box Assembly 1,000 RPM	03 thru 06				
	3D-555	Gear Box Assembly 540 RPM	07				
i	3D-560	Gear Box Assembly 1,000 RPM	07				
	3D-528	Gear Box Assembly 540 RPM	08				
1	3D-981	Gear Box Assembly 1,000 RPM	08				
1	6C-215	Slotted Nut (Order 1D-373)	01 46 02				
2	1D-373	Flange Nut (Replaces 6C-215 Nut & 1C-133 Washer)	03 thru 08				
3	1C-133	Retaining Washer	01 thru 02				
,	4C-905 7C-728	Key	01				
4	8C-598	Key	02 thru 08				
7	1D-105	Gear, 17-T, Forged 1 Key	01				
	1D-103 1D-794	Gear, 17-T, Forged 2 Key	02				
	3D-351	Gear, 17-T, Cut 2 Key	03 thru 06				
5	7C-763	Gear, 18-T, Cut 2 Key	07 thru 08				
6	7C-762	Bearing Cone #LM501349	All Models				
7	9C-392	Bearing Cup #LM501310	All Models				
	1D-102	Input Shaft (1 Keyway)	01				
ļ	1D-795	Input Shaft (2 Keyways) Input Shaft (2 Keyways)	02				
10	7C-764	Seal	03 thru 08				
11	8C-597	Gear, 23-T, Forged 1 Key	All Models				
	1D-104	Gear, 23-T, Forged 2 Key	01				
	1D-793	Gear, 23-T, Cut 2 Key	02				
	3D-350	Gear, 24-T, Cut 2 Key	03 thru 06				
12	9C-315	Output Spindle Assembly (1 Keyway)	07 thru 08				
	1D-107	Output Spindle Assembly (2 Keyways)	01				
1	3D-529	Output Spindle Assembly (2 Keyways)	02 thru 07				
13	8C-572	Gear Box	08				
	3D-527	Gear Box	01 thru 07 08				
14	7C-732	Breather Plug (Order 3D-978 & 5C-573)	00				
	3D-978	Reducer Bushing	All Models				
	5C-573	Breather Valve	TI Modera				
15	8C-607	Cover	All Models				
16	8C-606	Gasket	All Models				
17	7C-403	Pipe Plug - Drain	01				
10	9C-855	Pipe Plug - Drain	02 thru 08				
18	7C-762	Bearing Cup #LM501310	01 thru 07				
19	4C-832	Bearing Cup #362A	.08				
*7	7C-763	Bearing Cone #LM501349	01 thru 07				
20	4C-850 7C-764	Bearing Cone #368	08				
	4C-831	Seal	01 thru 07				
	10-031	Seal	08				
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UNIVERSAL DRIVE SHAFT 144" ROTARY SHREDDER

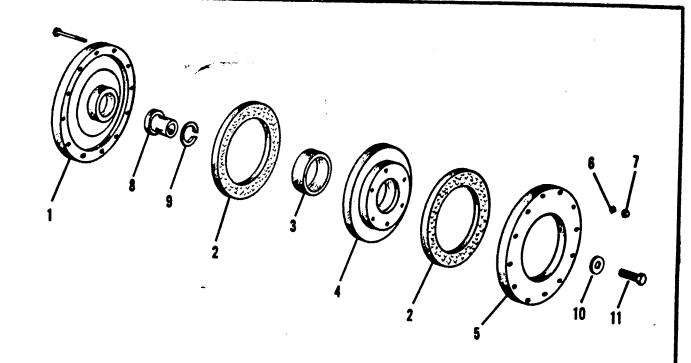
	·	144" ROTARY SHREDDER	
Index	* <u> </u>		
No.	Part No.	Description	
1	5C-572	Shear Yoke (W-5/16" Bushing)	
2	1D-905	Tube & Flange Yoke Assembly (540 rpm P.T.O.)	
3	1D-953	Tube & Flange Yoke Assembly (1,000 rpm P. T.O.)	
5	1D-904 3D-166	Yoke & Flange Assembly	:
J	3D-166 3D-167	Tube & Safety Shear Assembly (540 rpm P. T. O.)	
6	6C-748	Tube & Safety Shear Assembly (1,000 rpm P.T.O.) Stover Nut	
7	1C-508		
•	3D-160	Shear Bolt (3/8 - 16 NC x 2-1/2" Long) Shear Bolt (5/16 - 18 NC x 2-1/2" Long)	
8	5C-954	Stover Nut, 3/8-16 NC Thd.	.]
	6C-748	Stover Nut, 5/16-18 NC Thd.	
9	9C-419	Bushing - 3/8"	
	5C-500	Bushing - 5/16"	l
10	3D-162	Shear Flange Assembly (W-5/16 Bushing)	. 1
11	9C-391	Bolt	
12	8C-301	Set of 8 Balls	
	2D-140	Nylon Bearing	
13	8C-302	Retaining Ring (Used With 8 Balls)	1
	2D-141	Retaining Ring (Used With Nylon Bearing)	[
*	1D-854	Nylon Centralizer	
14	9C-338	Rear Shield Complete (540 rpm P. T. O.)	1
15	3D-677	Rear Shield Complete (1,000 rpm P. T.O.)	
15	9C-337 3D-676	Tube & Yoke Assembly (540 rpm P. T.O.)	1
16	5C-515	Tube & Yoke Assembly (1,000 rpm P. T. O.)	l
17	9C-335	Universal Joint Repair Kit	
-	3D-674	Shaft & Yoke Assembly (540 rpm P.T.O.) Shaft & Yoke Assembly (1,000 rpm P.T.O.)	1
18	5C-939	"X" Washer (Not Used With 3D-757)	1
19	9C-394	Front Shield Complete (540 rpm P. T.O.)	1
	3D-675	Front Shield Complete (1,000 rpm P. T. O.)	:
20	6C-589	1-3/0 - 0B Spline Tractor Yoke (540 rpm P.T.O.)	
	1D-791	1-3/6-21 Spline Tractor Yoke (1,000 rpm P.T.O.)	1
*	8C-528	Cap screw) Transferring to most at the	.
*	5D-747		*
21	9C-325	Shaft & Joint Assembly (540 rpm P. T. O.)	
22	1D-947	Shart & Joint Assembly (1,000 rpm P. T. O.)	: 1
23	5C-987 5C-257	Lock Pin (Obsolete - Order 3D-757)	
	30-231	Lock Pin Spring	. [
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3 JOINT P. T. O. ASSEMBLY RSS-144 ROTARY SHREDDER

	RSS-144 ROTARY SHREDDER					
Sym.	Part No.	Description				
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 * * 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	3D-145 3D-172 3D-229 3D-230 2D-140 2D-141 1D-904 5C-572 3D-162 5C-515 8C-315 3D-231 3D-232 3D-233 3D-234 6C-589 1D-791 8C-528 5D-747 5C-257 5C-987 3D-105 3D-132 3D-132 3D-132 3D-132 3D-130 7C-323 7C-322 1D-854 3D-107 3D-108 3D-147 5C-233 5C-234 6D-748 5C-500 3D-160 3D-680 3D-681	Drive Shaft Assembly (Slip Clutch) Drive Shaft & Yoke Assembly Shield Complete Nylon Bearing Retaining Ring Yoke & Flange Assembly Shear Yoke (W-5/16" Bushings) Shear Flange Assembly (5/16" Bushings) Universal Joint Repair Kit Yoke Rear Shield Complete Tube & Yoke Assembly Shaft & Yoke Assembly Front Shield Complete 1-3/8 - 6 Spline Tractor Yoke (540 RPM) 1-3/8 - 21 Spline Tractor Yoke (1,000 RPM) Cap Screw) Elastic Stop Nut) Lock Pin Spring Lock Pin (Obsolete - Order 3D-757) Center Shield P. T. O. Bearing Bracket Support Assembly Bearing Bearing Sleeve Nylon Centralizer Tube & Joint Assembly Tractor Joint & Shaft Assembly (540 RPM) Tractor Joint & Shaft Assembly (1,000 RPM) Set Screw Jam Nut Stover Nut 5/16 - 18 NC Thd. Bushing - 5/16" Shear Bolt (5/16 - 18 NC x 2-1/2" Long) Nylon Bearing Retaining Ring				

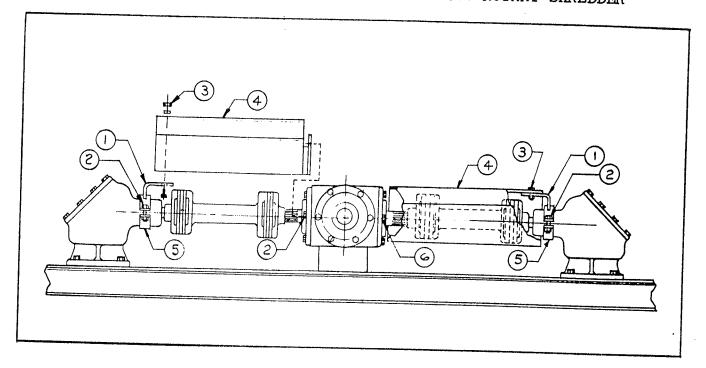
9C-494



SLIP CLUTCH ASSEMBLY
9" CLUTCH

Sym.	Part No.	Part Name
1 2 3 4 5 6 7 8 9 10 11	1D-909 1D-371 1D-395 1D-544 1D-374 1D-372 1D-398 1C-670 1D-888 1D-542 1D-889 5C-516	Clutch Assembly (Complete) Hub Friction Disc 9" Outside Dia. Bushing Friction Plate Pressure Plate Belleville Washer Nut (Self Locking) Adapter Sleeve Snap Ring Retaining Washer Capscrew, L. H. Thread

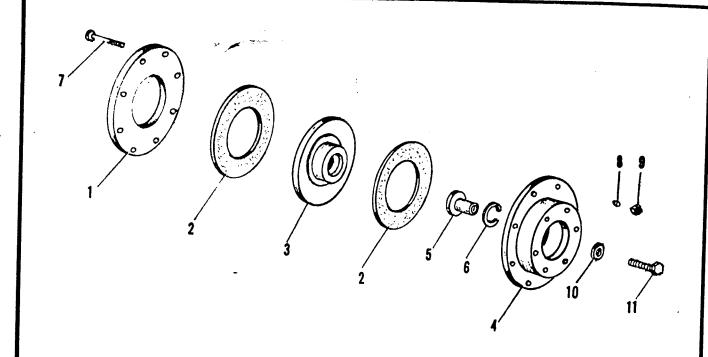
ASSEMBLY INSTRUCTIONS FOR ATTACHING FLEXIBLE COUPLER SHIELDS TO RSS-144 ROTARY SHREDDER



SYMBOL	PART NO.	NAME	
7		1111111	QTY.
	1D-995	Support Assembly	2
2	10-232	$3/8-16$ N.C. x $1\frac{1}{4}$ " Long Cap Screw	8
3	4 c-8 03	3/8-16 N.C. x 1" Long Cap Screw	2
4	2D - 103	Shield Assembly	2
5	1D - 994	Clamp	
6		Present (Flange) Cap Screws	2

To assembly the #4 Shields to the Shredder, begin by attaching the (2) #1 and #5 Clamp Support and Clamps to the outer gear housings as shown in the illustrations. Do not draw the #2 Clamp Bolts up until all the other parts have been attached. Then remove the (2) #6 Flange Cap Screws from each of the flanges as shown in the illustrations, and place the #4 Shields in position. Bolt them in place using two of the #2 (3/8-16 N.C. x $1\frac{1}{4}$ " long) Bolts to attach to each of the flanges. After this has been completed, slide the #1 and #5 Clamps under the #4 Shields until the single hole in the top of the Shield lines up with the hole in the #1 Bracket, and insert the #3 (3/8-16 N.C. x 1" long) Bolts, and fasten with lockwashers and nuts, and draw up tight.

Complete the assembly by drawing up the two #2 bolts, nuts, and lockwashers on each of the clamps.

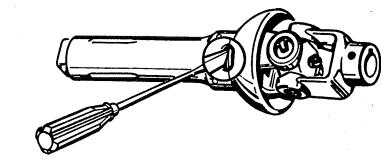


7-1/2" SLIP CLUTCH ASSEMBLY

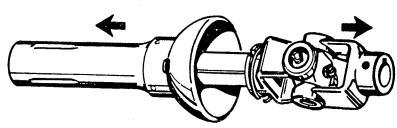
Sym.	Part No.	Part Name
1 2 3 4 5 6 7 8 9 10 11	3D-808 3D-811 3D-457 3D-810 3D-809 1D-888 1D-542 1C-508 1D-398 1C-670 1D-889 5C-516	Clutch Assembly (Complete) Pressure Plate Friction Disc-7-1/2" Outside Diameter Clutch Hub Friction Plate Assembly Adapter Sleeve Snap Ring Capscrew Belleville Washer Nut (Self locking) Retaining Washer Capscrew, L. H. Thread

Instructions for Removing Nylon Quick Detachable Free Wheeling Guard

1. Insert screw driver in slot in bell and push snap ring downward and forward out of groove toward large opening of bell.

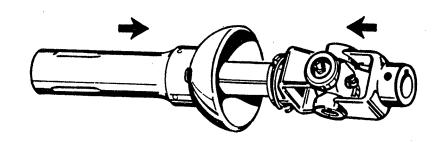


2. Slide guard off of joint.

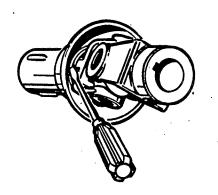


Instructions for Assembling Nylon Quick Detachable Free Wheeling Guard

1. Slide snap ring over joint hub.



- 2. Insert nylon bearing in groove of joint hub.
- 3. Slide joint assembly into guard. With screwdriver, push snap ring into groove.



WARNING - DO NOT POUND BELL TO REMOVE JOINT ASSEMBLY.

Form 4D-200-A

9C-636 3D-628 1D-626

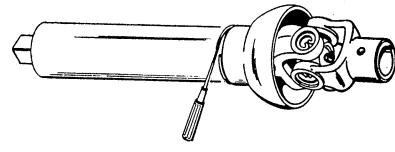
1D-201

9C-494

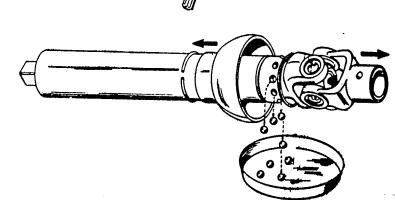
INSTRUCTIONS FOR REMOVING

QUICK DETACHABLE FREE WHEELING GUARD

1. Use screw driver or sharp pointed tool to remove snap ring from groove at back of bell.

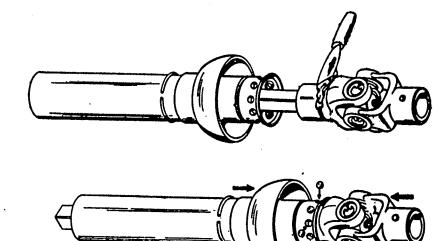


2. Hold assembly over container so that balls will not be lost and slide bell away from joint toward opposite end of tube. If balls do not drop out, slide tube away from joint, forcing balls from cage.



INSTRUCTIONS FOR ASSEMBLING QUICK DETACHABLE FREE WHEELING GUARD

- 3. Fill raceway in yoke with grease.
- 4. Slide tube with bell and snap ring over raceway. Insert balls through holes into raceway where grease will hold them in place. Slide bell over balls. Slide snap ring into groove.



Grease joints, telescoping shafts and guard regularly. This Quick Detachable Free Wheeling Guard is the finest guard built. It is provided for your protection.

Form 4D-200 9C-544

9C-636

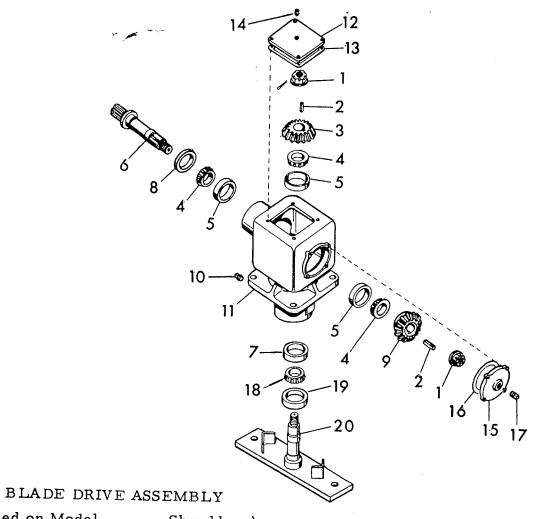
1D-626

8C-658

9C-494

5C-103

6C-727



(Used on Model

Shredders)

Sym.	Part No.	Description	No. Used
1 2 3 4 5 6 7 8 9 10 11 12 13	4D-890 1D-373 7C-728 3D-351 7C-763 7C-762 1D-795 4C-832 7C-764 3D-350 4C-841 4D-186 2D-914 2D-916	Description Blade Drive Assembly Flange Nut Key Gear - 18T Bearing Cone (#LM501349) Bearing Cup (#LM501310) Input Shaft Bearing Cup #362A Seal - 2.125 I. D. x 3.066 O. D. x 11/16 Gear - 24T Pipe Plug Allen Head Gearbox Housing Cover Gasket - Cover	No. Used 2 4 1 3 3 1 1 1 1 1
14 15 16 17 18 19 20	5C-573 2D-915 2D-917 4C-840 4C-850 4C-831 3D-529	Breather Valve Rear Cap Gasket - Rear Cap Pipe Plug Square Head Bearing Cone #368 Seal - 2.375 I.D. x 3.505 O.D. x 45/64 Output Spindle Assembly	1 1 1 1 1

1000 .