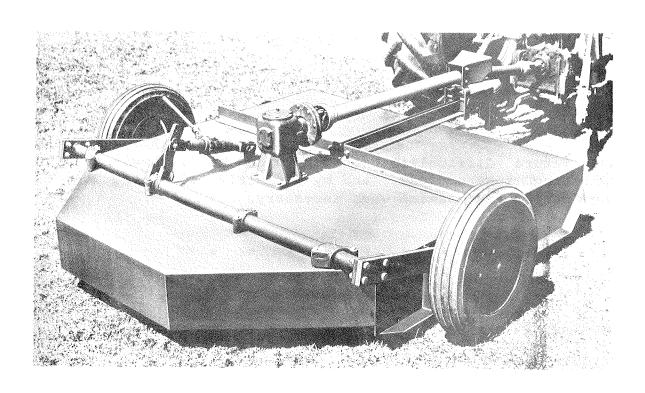
OPERATOR'S MANUAL REPAIR PARTS CATALOG

SV FARM IMPLEMENTS
WITH A FUTURE



MODEL R-84

Model R-84-02

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.

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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.

SPECIFICATIONS

Width of Cut 84"
Height of Cut
Blades Heat-treated alloy steel
Hood Heavy gauge welded steel assembly
Gears
Blade Drive Timken bearing equipped - high alloy gearbox casting
Blade Mounting Blades pivot on hardened alloy steel shoulder bolts.
P. T. O. Drive Shaft Heavy duty - 3 joint needle bearing assembly, 540 R.P.M.
Hitch
Lift Tractor hydraulic cylinder or "Brillion" ratchet screw jack (order 7C-841 jack assembly).
Wheel Sizes Three types available - (1) 14" Pneumatic (2) 15" Pneumatic (3) Laminated rubber
Weight 1585#
Shear Pin Coupler (optional) Two 3/8" dia. pins with replaceable bushings
Slip Clutch (Optional) Multiple disc-adjustable.

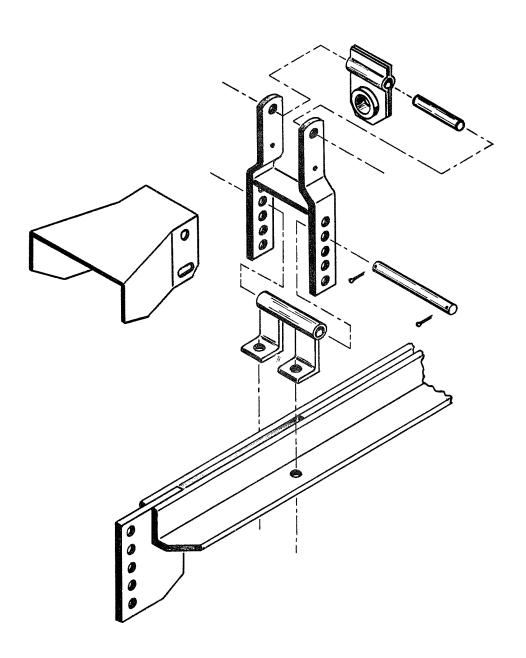
ASSEMBLY INSTRUCTIONS BRILLION R-84 ROTARY SHREDDER

Your machine is shipped as five basic assemblies. All fasteners are already in the holes in which they are to be used.

Place the drawbar on top of the hood and bolt down tight with the six (6) bolts, nuts, and lockwashers provided.

Separate the axle arm assemblies from each other. The additional bolts required for mounting will be found in the small bag attached to the assembly. Bolt the axle arms to the end plates on the lift shaft so the wheels are mounted toward the front of the unit.

Attach the P. T.O. support components to the drawbar as illustrated below.



3D628

LUBRICATION

The gear housing on this machine is shipped without oil and must be filled to proper level before operation. Use S. A. E. 140 oil during the summer and S. A. E. 90 for winter operation. Check oil level monthly.

Grease fittings are assembled into the P.T.O. shaft and the axle bearings. Grease all P.T.O. fittings after each 10 hours of operation and the axle bearings as often as needed.

OPERATION

These shredders are intended for operation at a P.T.O. speed of 540 R.P.M. Running your tractor at part throttle will result in less satisfactory shredding. Control your ground speed with your gearshift, and maintain shredder at rated speed.

When starting a swinging-blade shredder, the blades are usually not in balance at first, and the machine will shake violently if started too quickly. Engage the P. T. O. slowly at a low throttle setting. The blades will balance quickly and you may increase speed. Try to avoid starting the machine directly in heavy work. Give the blades a chance to balance first.

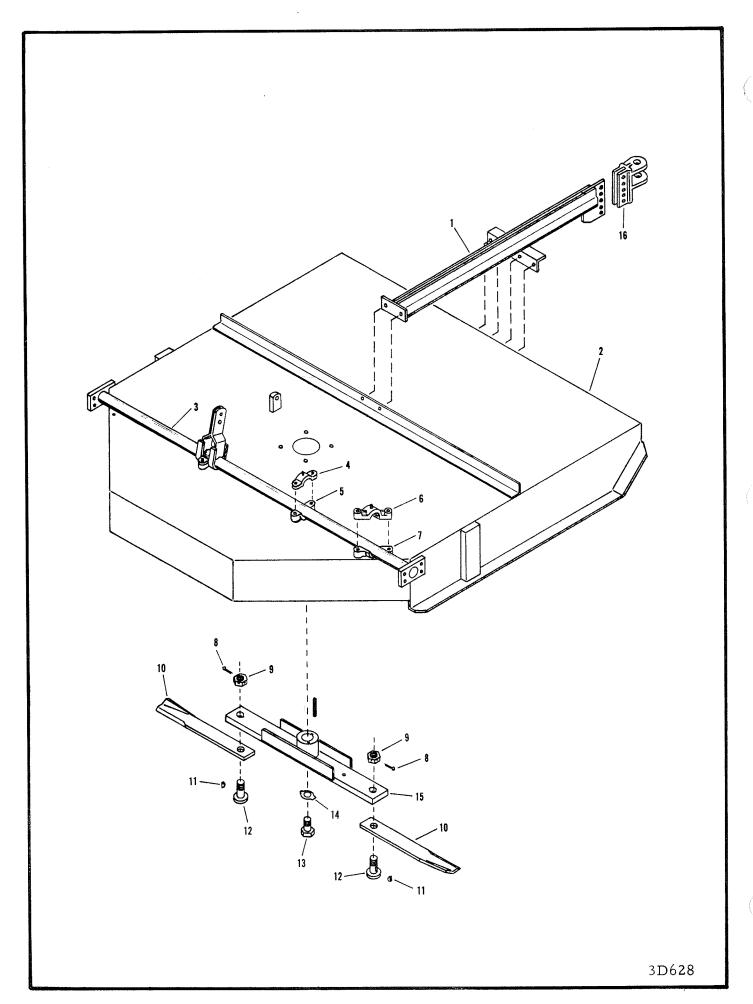
Operate your shredder level or slightly lower in front. The drawbar hitch plate is adjustable to accomplish this.

SHEAR COUPLER

The drive train is protected by two 3/8 shearpins in the P.T.O. shaft. These are common bolts which can be purchased anywhere, but DO NOT USE HEAT TREATED BOLTS OR PINS OF ANY KIND. To do so is inviting severe damage to shredder or tractor. When replacing shearpins, do NOT draw bolts tight - only snug, or finger tight. Use locknuts or double nuts to keep bolts from loosening.

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.

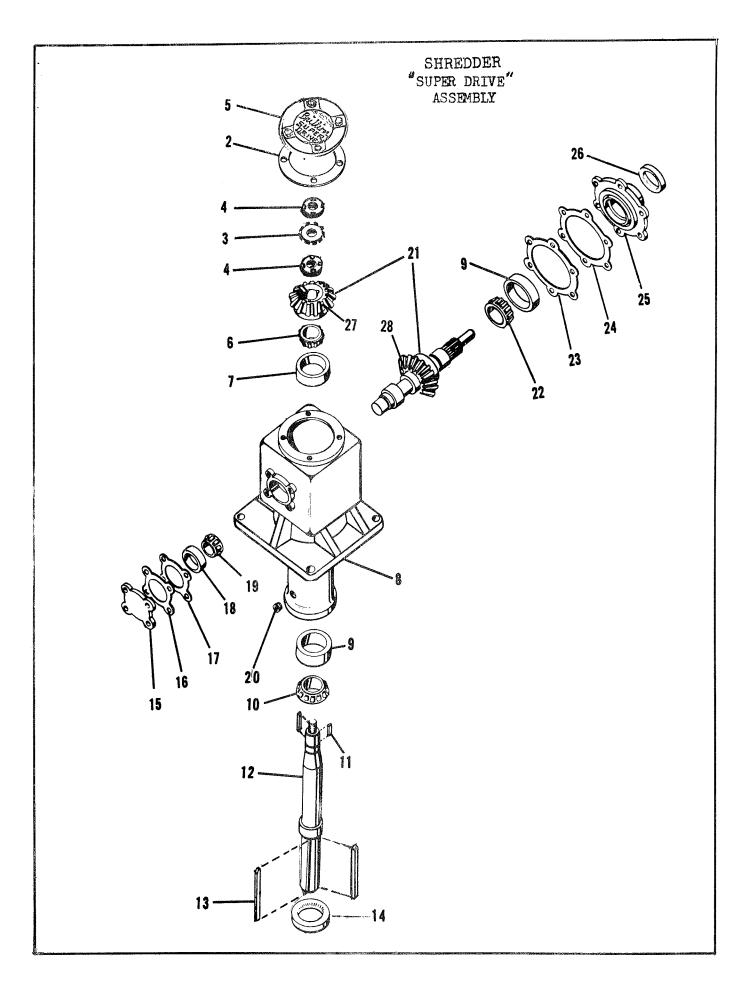


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HOOD AND BLADE ASSEMBLY

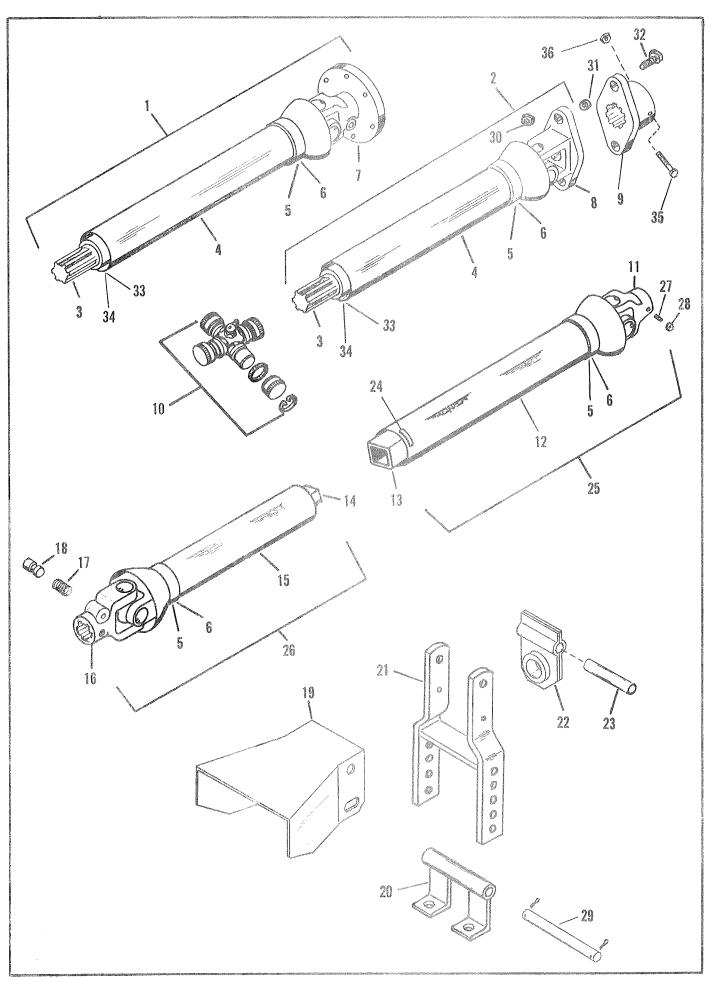
	HOOD AND BLADE ASSEMBLY			
Sym.	Part No.	Description		
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	3 D- 424 3 D- 395 3 D- 440 4 C- 758 4 C- 778 9 C- 367 9 C- 363 6 C- 468 8 C- 609 3 D- 449 9 C- 421 4 C- 996 4 C- 918 3 D- 442 1 D- 293	Drawbar Assembly Hood Assembly Lift Shaft Assembly Bearing Cap Assembly Beating Cap Assembly L. H. Bearing Cap Assembly (not illustrated) R. H. Bottom Bearing L. H. Bottom Bearing (not illustrated) Cotter Pin (3/16" x 2" Long) Slotted Nut Blade Woodruff Key Pivot Bolt Retaining Screw Clutch Lockwasher Blade Arm Assembly Heavy Duty Hitch		

965



GEARBOX ASSEMBLY

Sym. Part No.	Description
1 3D-436 2 4C-825 3 1D-764 4 1D-763 5 1D-768 6 1D-759 7 1D-758 8 1D-760 9 4C-832 10 4C-836 12 3D-434 13 3D-435 14 4C-821 15 4C-822 16 4C-827 17 4C-826 18 3C-164 19 4C-848 20 4C-841 21 3D-624 4C-847 22 4C-847 23 4C-828 25 4C-842 26 4C-830 27 3D-437 3D-437 3D-439	Complete Gearbox Assembly Cover Gasket Bearing Lockwasher Bearing Nut Drive Cover Bearing Cope (Timken #25580) Bearing Cope (Timken #362A) Bearing Cope (Timken #362A) Bearing Cope (Timken #368) Key Output Shaft Key Output Seal Bearing Cap Shim (.007") Shim (.005") Bearing Cone (Timken #14276) Bearing Cope (Timken #14138A) Drain Plug Matched Set - Gear & Gear Shaft Assembly Bearing Cone (Timken #367) Shim (.005") Shim (.005") Bearing Flange Input Seal Output Pinion Input Shaft with Gear

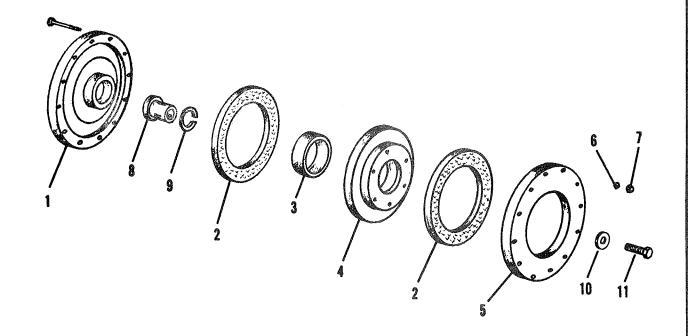


3 JOINT P. T.O. COMPONENTS R-84 ROTARY SHREDDER

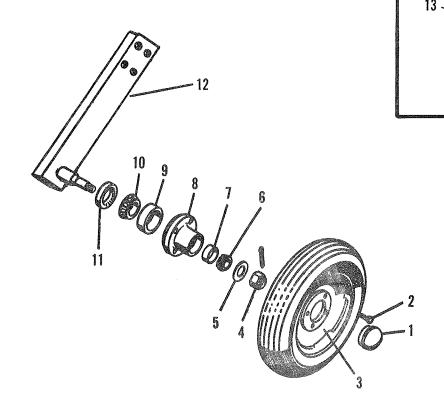
R-84 ROTARY SHREDDER			
Index No.	Part No.	Description	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 1 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36	3D-414 3D-625 3D-626 2D-140 2D-141 1D-904 1D-766 9C-390 5D-515 8C-315 3D-231 3D-232 3D-233 3D-234 6C-589 5C-257 5C-987 3D-105 3D-1105 3D-135 7C-323 7C-322 1D-854 3D-107 3D-108 5C-233 5C-234 3D-140 5C-954 9C-419 1C-508 3D-680 3D-681 1D-239 6C-748	Tube & Clutch Flange Yoke Assembly Tube & Shaft & Yoke Assembly Shiald Complete Nyton Bearing Retaining Ring Flange Yoke Shear Yoke (With 3/8" Bushings) Shear Flange Assembly (3/8" Bushings) Universal Joint Repair Kit Yoke Rear Shield Complete Tube & Yoke Assembly Front Shield Complete 1-3/8 - 6 Spline Tractor Yoke (540 RPM) Lock Fin Spring Lock Pin (Obsolete - Order 3D-757) Center Shield Bearing Anchor Assembly Bearing Bearing Sleeve Nylon Centralizer Tube & Joint Assembly Shaft & Joint Assembly Shaft & Joint Assembly Stover Nut Bushing - 3/8" Shear Bolt (3/8 - 16 NC x 2=1/2" Long) Nylon Bearing Retaining Ring Capscrew, 5/16-18 NC x 3 Long, Grade 5 Stover Nut, 5/16-18 NC	

1169

SLIP CLUTCH ASSEMBLY



WHEEL & AXLE ARM ASSEMBLY



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SLIP	CI	TITI	CII	VCCL	T STAN	V
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Clutch Assembly (Complete)

Description

1 2 3 4 5 6 7 8 9 10 11	1D-371 1D-395 1D-544 1D-374 1D-372 1D-398 1C-670 1D-888 1D-542 1D-889 5C-516	Hub Friction Disc Bushing Friction Plate Pressure Plate Belleville Washer Nut (Self Locking) Adapter Sleeve Snap Ring Retaining Washer Capscrew (L. H. Thread)	
	21	WHEEL & AXLE ARM ASSEMBLY	
1 2 3 4 5 6 7 8 9 10 11 12 13	5C-908 5C-916 8C-470 5C-909 5C-907 5C-911 5C-912 5C-914 5C-913 5C-910 9C-720 1D-900 1D-933	Cap Wheel Bolt Wheel Rim = 15" Wheel Rim = 14" Nut Washer Bearing Cone (Timken #LM11949) Bearing Cup (Timken #LM1910) Wheel Hub Bearing Cup (Timken #LM67010) Bearing Cone (Timken #LM67048) Grease Seal Arm & Shaft Assembly 6.00 x 9 Laminated Tire & Rim 6.00 x 9 Laminated Tire Kit (2 wheels with bol	ts)
866		Page 13	3D-628

Sym.

1

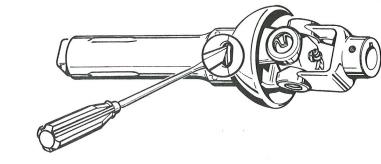
Part No.

1D-909 1D-371

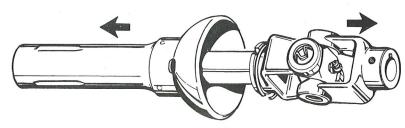
Hub

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.

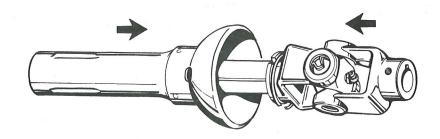


2. Slide guard off of joint.

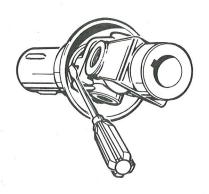


Instructions for Assembling Nylon Quick Detachable Free Wheeling Guard

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

1D-201

3D-628

9C-494

1D-626

9C-544