REPAIR PARTS CATALOG

OPERATOR'S MANUAL

Brillion

60" ROTARY SHREDDER

MODELS: RSS-60-02
RSSP-60-02
RSS-60-03
RSSP-60-03

IMPORTANT!
Repairs cannot be purchased retail direct from factory. Order through your Brillion dealer or any established implement dealer.

A product of the

BRILLION IRON WORKS • BRILLION, WISCONSIN

1076

6D-898

Brillion 60" Swinging Blade Rotary Shredders

Model RSS-60 Drawbar Type

Model RSSP-60 3 Pt. Pickup Type

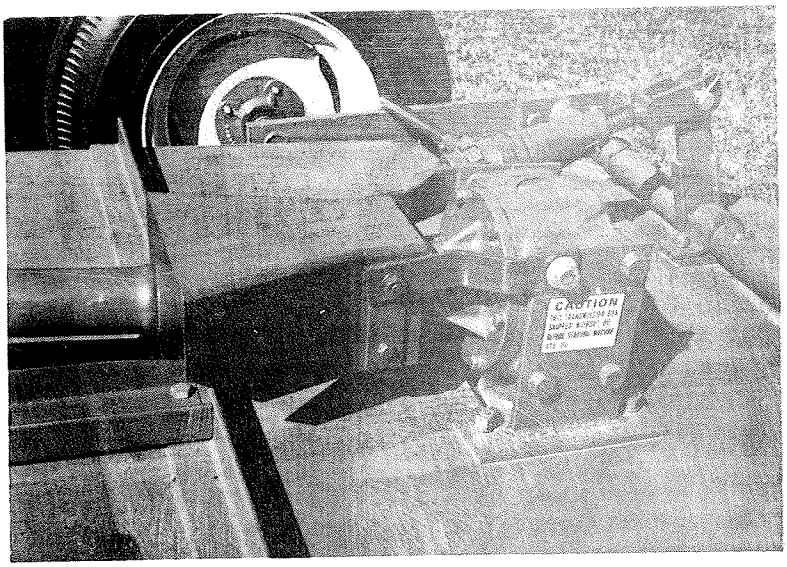
General Specifications

Width of Cut	60 inches
Height of Cut	1 to 14 inches
Blades	Heat treated alloy steel
Hood	Heavy gauge welded steel
Gears	Heat treated forged alloy steel 1.5 to 1 ratio
Bearings	Timken tapered roller, nut adjusted
Blade Mounting	Pivots on case hardened steel sleeve, held by heat treated alloy bolt and case hardened nut.
Wheels	Drawbar type - 6/70 x 15" rim (14" available) Pickup type - 3.50 x 6 semi-pneumatic puncture proof, 360 degrees caster
Weight	Depending upon accessories approximately 500#

SAFETY INSTRUCTIONS

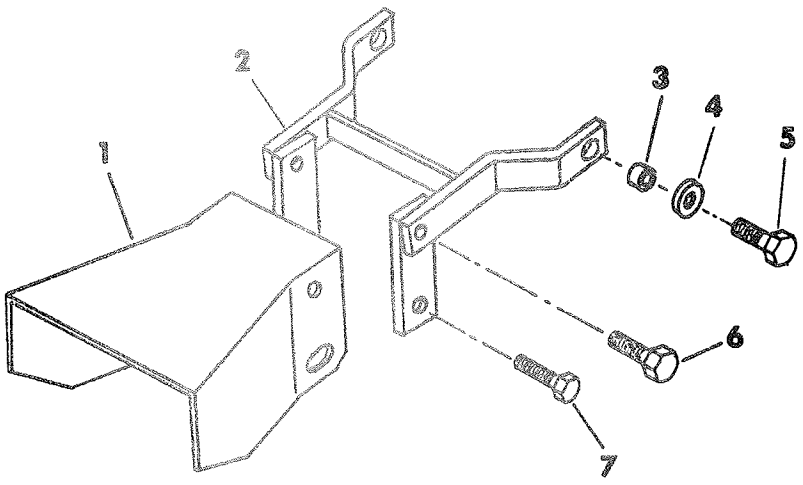
Federal regulations require that at the time of initial assignment and at least annually thereafter, each employee shall be instructed in the safe operation and servicing of all equipment which he will be operating. This instruction shall cover the following safe operating practices:

1. Keep all guards and shields in place when machine is in operation.
2. Stop engine, disengage PTO and wait for all movement to stop before servicing, adjusting, cleaning, or unclogging machine.
3. Keep hands and feet away from machine openings and moving parts when operating.
4. Do not allow anyone but operator to ride tractor or equipment.
5. Make sure everyone is clear of machine before starting engine, engaging PTO or operating machine.
6. Run PTO at proper PTO speed for this machine. Refer to tractor Operator's Manual for proper engine speed to obtain proper PTO speed.
7. If servicing or adjusting require the temporary removal of any shield, wait until all movement has stopped before attempting to lift or remove shield.
8. Block machine up when working under the machine. Do not rely on hydraulic cylinders to support machine or machine parts.
9. Do not transport machine at speeds where the operator loses control. Do not exceed 20 mph under any conditions.



Attach the P. T. O. shield assembly to the gearbox mounting brackets as shown in the photo at left. Be sure to use the #8C-904 bushings and the longer bolts provided. See illustration below for location in assembly.

Keep this shield in place while operating. Before lifting the shield for servicing, make sure all movement has stopped.



Index No.	Part No.	Description	Req'd.	Weight
1	3D-105	Center Shield	1	3.0
2	2J-101	Bracket Weldment	1	3.0
3	8C-904	Bushing	2	
4	5C-907	Flat Washer - 5/8" S. A. E.	2	
5	6C-421	Bolt, 5/8-11 x 1-3/4" Long	2	.1
6	1C-334	Bolt, 1/2-13 x 1-1/4" Long	2	.1
*	1C-109	Lock Washer - 1/2" Std.	2	
*	1C-390	Nut, 1/2-13 Hex	2	
7	1C-237	Bolt, 5/16 - 18 x 3/4" Long	2	
*	3C-127	Flat Washer - 5/16" Std.	2	
*	1C-362	Lock Washer - 5/16" Std.	2	
*	1C-385	Nut, 5/16 - 18 Hex	2	

* Not Shown

General

Your Brillion 60" Swinging Blade Rotary Shredder is built with the best workmanship and materials available. It has been carefully designed and thoroughly tested to assure you a machine which is simple and durable, safe and easy to operate, yet economical to own. Used within its ratings, and properly maintained, it will give years of satisfying, trouble-free service.

Location Reference

"Right" and "Left", "Front" and "Rear" are determined when the operator faces the direction the machine will travel, standing behind it.

Assembly Instructions — Drawbar Type

This unit is shipped as five subassemblies and wheels. The drawbar is mounted flat side down, using the bolts provided in the hood assembly. Be sure these bolts are securely tightened, as damage can result from a loose drawbar.

The axle can be arranged in three different manners. Notice that the axle arms are bolted to the plates welded on each end of the axle. The axle arms can be mounted with wheels outward to either front or rear (frontwards is preferred) or with the wheels inward and arms to the rear. This arrangement is sometimes preferred when the machine is to be used close to fences, trees, etc. The shredder will balance well with wheels forward, but will be somewhat heavy with them rearward. The screw jack is installed in the same manner in either case.

The P. T. O. shaft is installed over the gearbox input shaft using the key, which will be found taped to the gearbox shaft, and the shear pin included with the P. T. O. assembly.

Before operating the machine, remove the plastic plug in the filler hole on the back of the gearbox, and replace it with the filler-breather plug which is wired to the assembly. Gearboxes are shipped without oil - be sure to fill with S. A. E. 140 E. P. for summer operation and S. A. E. 90 E. P. when the temperature is below 32 degrees.

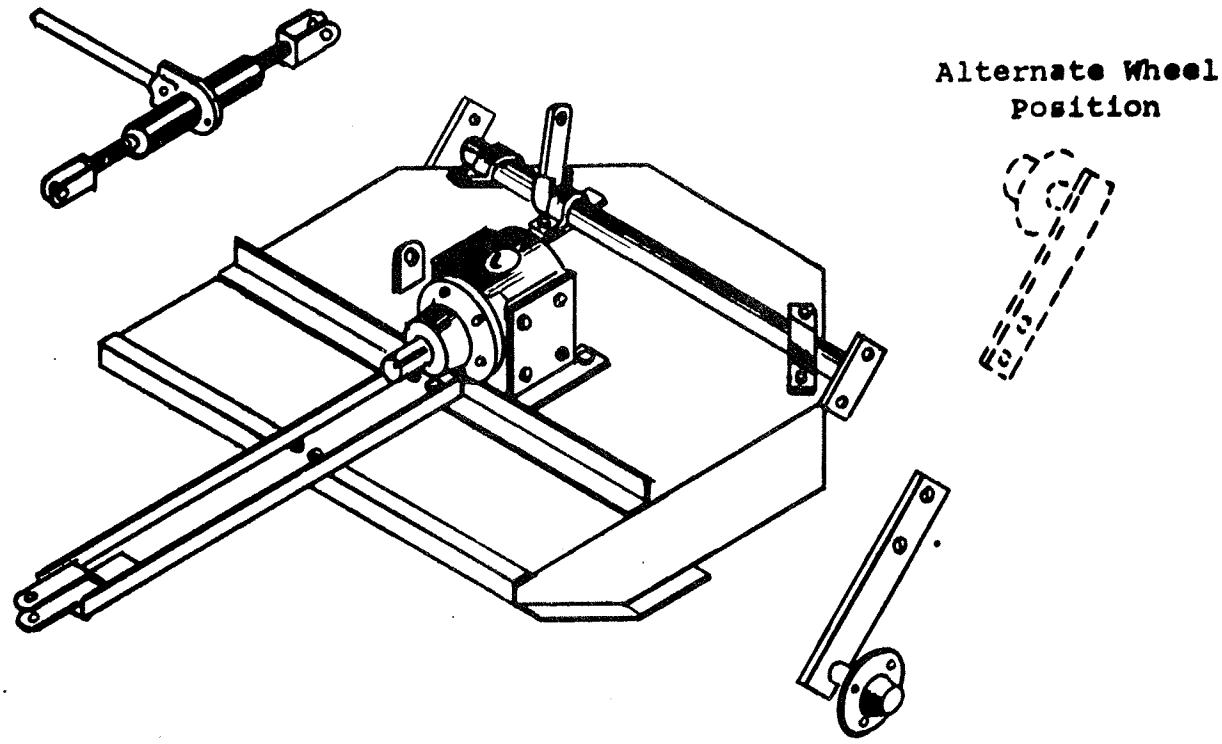


FIGURE 1 Assembly of Drawbar Type Machine

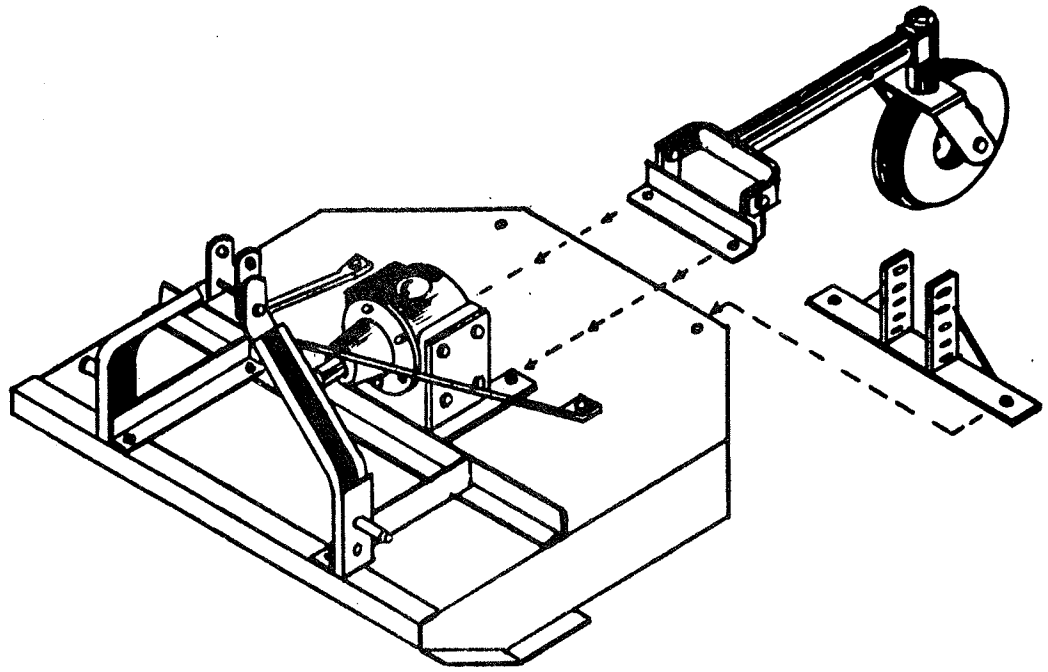


FIGURE 2 Assembly of 3 Pt. Pickup Type Machine

Assembly Instructions - 3 Pt. Pickup Type

This model is shipped as three subassemblies plus tailwheel assembly if ordered.

The 3 pt. hitch assembly is mounted using the 4 bolts supplied in the hood assembly. Be sure these bolts are securely tightened. The braces are attached as shown in the assembly drawings, figure 2.

The tailwheel assembly, if ordered, is supplied as a separate package, complete in itself. It is mounted on the two rear bolts which fasten the gearbox mounting plates to the hood. The adjustment bracket is assembled using the two holes provided at the extreme rear of the hood.

The P. T. O. assembly is installed using the key found taped to the input gear shaft and the shear pin included with the P. T. O. assembly.

It should be noted that it is not wise practice to drop the shredder load heavily onto the tailwheel. The tailwheel assembly is sturdily built and is intended for continuous service, but heavy shocks and abuse will shorten the life of any such assembly.

Operation

General - These shredders are intended for operation at a P. T. O. speed of 536 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.

If the machine is stopped suddenly, the blades usually swing forward and cross against each other. This is typical and is not harmful or unsafe in any way.

If the shear pin shears, replace it ONLY with the identical pin. A spare pin is provided with the kit and replacement pins should be ordered through your dealer. Use the identification number listed in the parts list.

These machines are rated for general service in mowing and grass cutting, shredding prunings, cornstalks, straw, etc. and brush up to appproximately 1" in diameter.

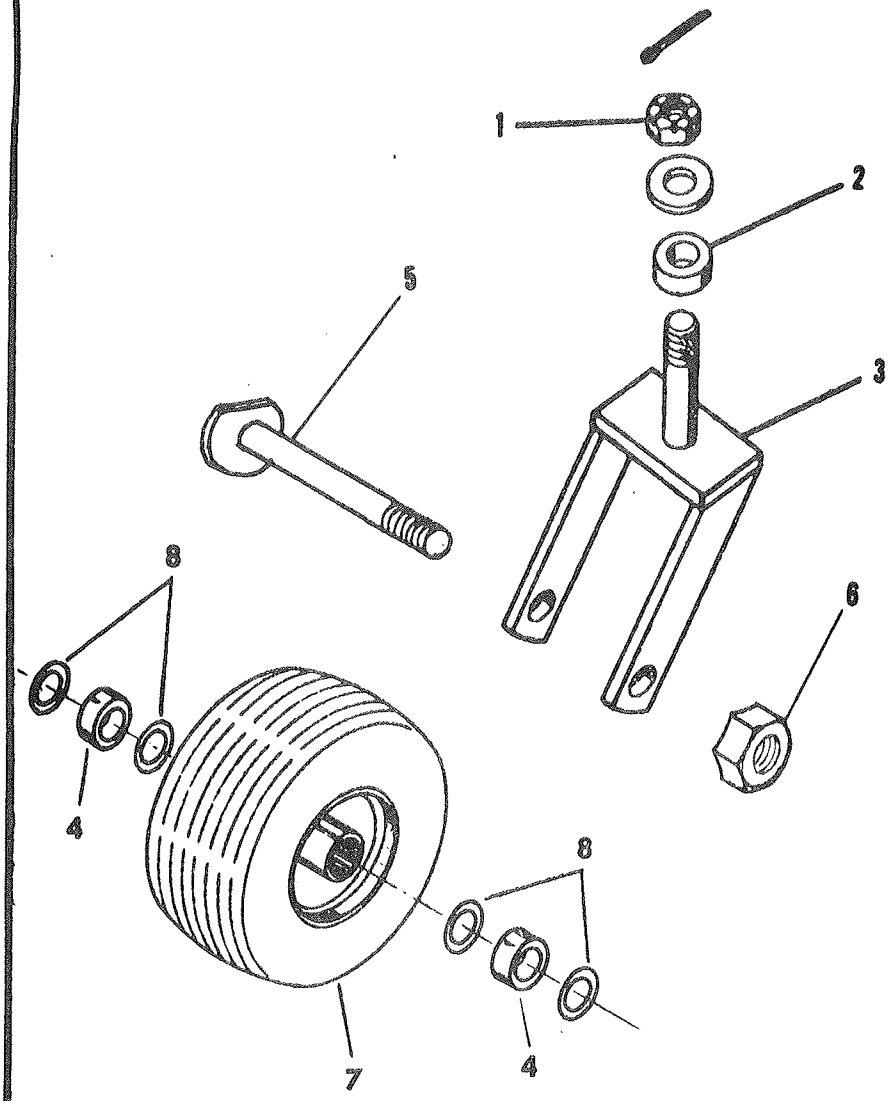
When using, set the cutting height so as to avoid rocks, wire, etc., and keep blades out of the ground. Short life of the blade edge almost always means abrasive or rocky conditions have been encountered.

Maintenance

These shredders are designed to require simple lubrication procedures. Lube fittings are located on universal joints of the P. T. O. assembly. The pickup shredder also has fittings on the tailwheel assembly; one fitting is on the wheel hub and the other on the tailwheel pivot arm. The only oil check is in the gearbox, where the level is indicated. Check oil monthly. If adding is necessary, use SAE 140 in summer, SAE 90 in winter.

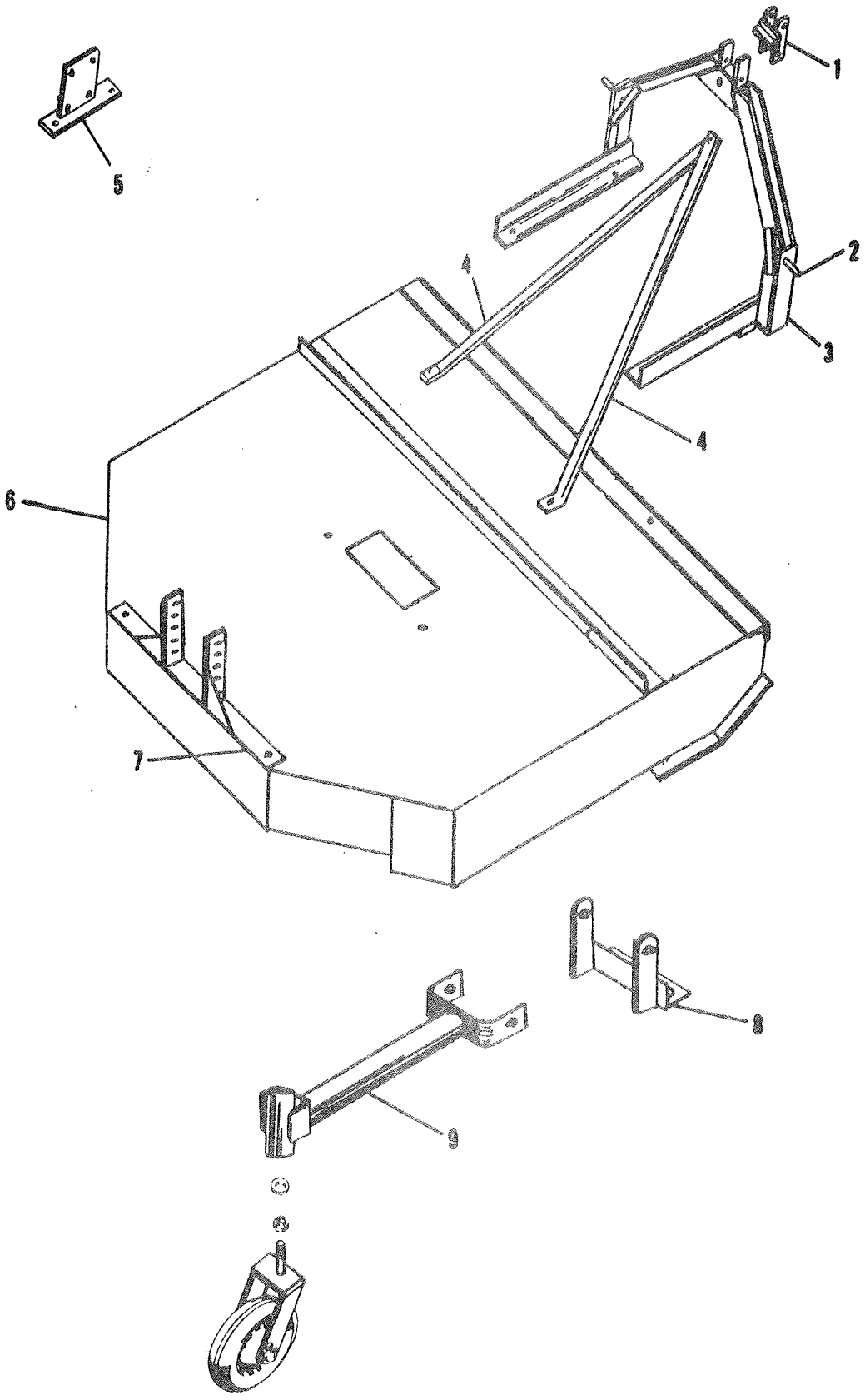
It is advisable each year, before using the shredder, to go over all bolts for tightness. In addition, it is especially important to check the blade bolts regularly. The blades should swing freely, but with very little slack in any direction. When necessary, replace these parts only with genuine Brillion parts. They are specially heat treated and sized, and it is very dangerous to use standard hardware for blade pivot service.

WHEEL & FORK ASSEMBLY



Index No.	Part No.	Part Name	Weight
1	6C-465	Nut (1"-8 N. C. Slotted)	.2
2	6C-494	Washer	8.2
3	2D-115	Wheel Fork	.1
4	7C-337	Spacer	1.0
5	2D-118	Axle	
6	9C-223	Stover Nut (1"-14 N.F.)	8.5
7	1J-122	Wheel (complete assembly)	
8	7C-120	Machinery Bushing	

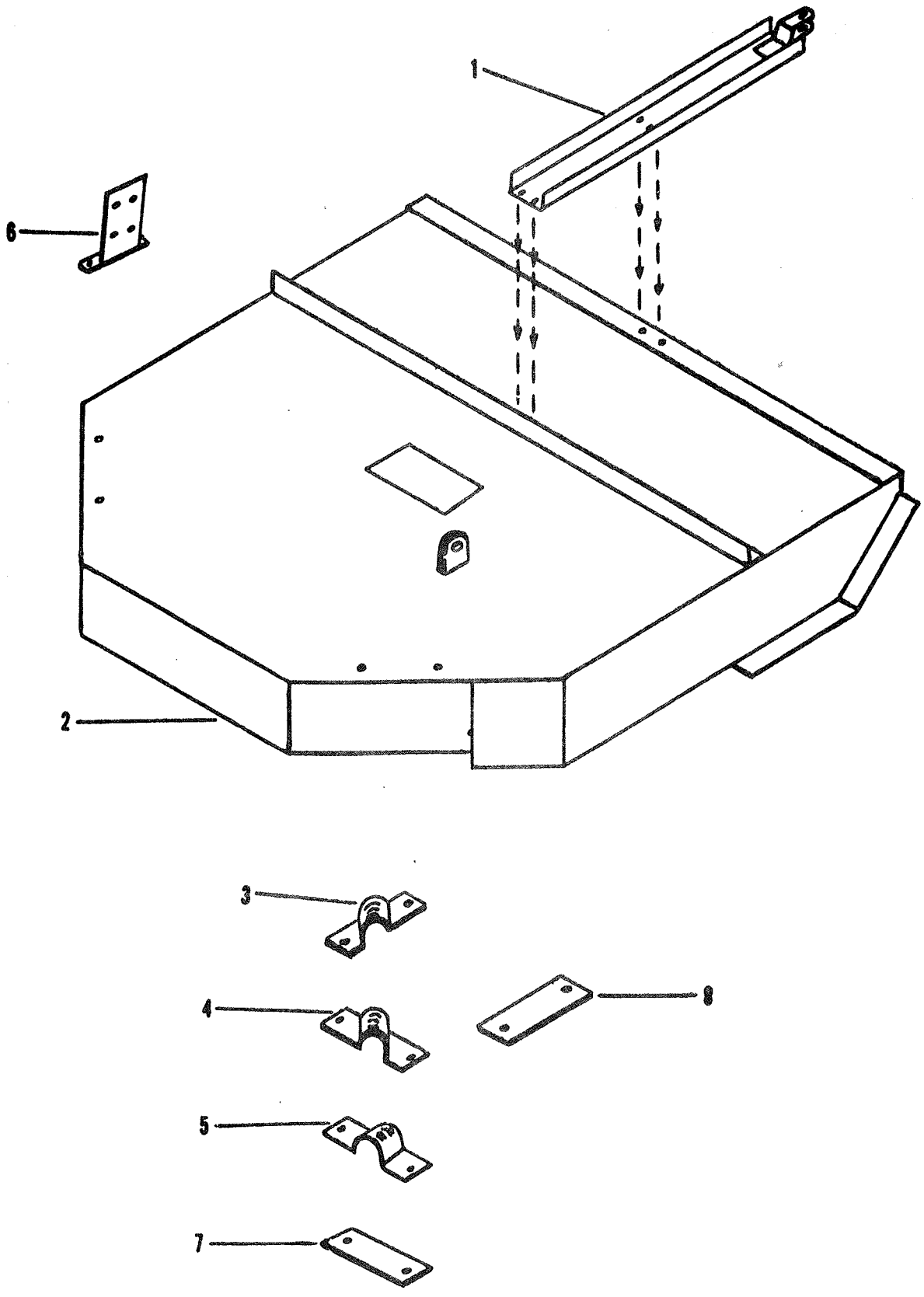
PICKUP HOOD & TAILWHEEL ASSEMBLY



PICKUP HOOD & TAILWHEEL ASSEMBLY

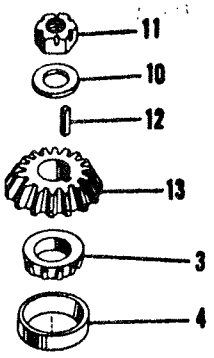
Sym.	Part No.	Part Name	Weight
1	5C-442	Float Link	4.6
2	5C-443	Hitch Pin	.7
3	8C-644	Pickup Hitch Frame	40.0
4	8C-811	Frame Brace	5.2
5	8C-653	Gearbox Mtg. Bracket	6.1
6	8C-637	Hood Assembly, Pickup Type	
7	8C-632	Height Adj. Bracket	7.4
8	8C-648	Gearbox Bracket	3.1
9	8C-647	Tailwheel Arm Assembly	16.2

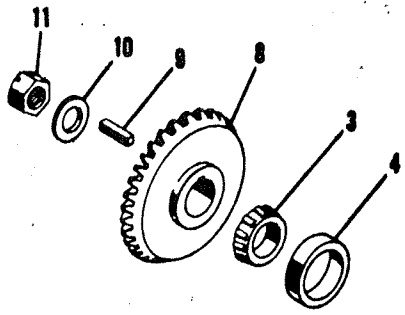
HOOD ASSEMBLY - DRAWBAR TYPE

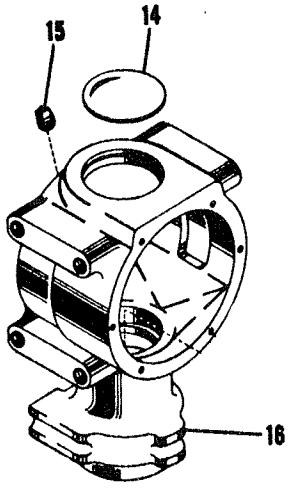


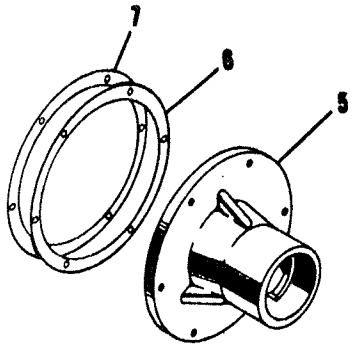
HOOD ASSEMBLY - DRAWBAR TYPE

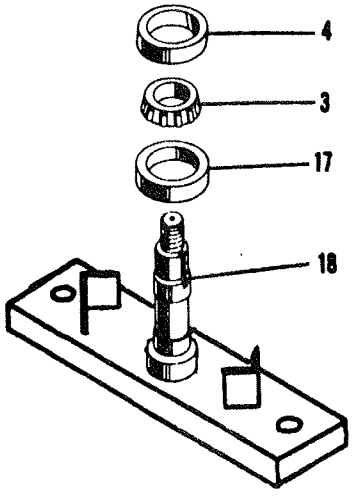
Index No.	Part No.	Part Description	Weight
1	8C-579	Drawbar Assembly	27.0
2	8C-588	Hood Assembly	
3	8C-622	L.H. 45 degree Clamp	2.0
4	8C-623	R.H. 45 degree Clamp	2.0
5	6C-285	Clamp	1.1
6	8C-653	Gearbox Mtg. Bracket	6.1
7	8C-624	Clamp Btm. Plate (long)	2.0
8	6C-593	Clamp Btm. Plate (short)	1.6

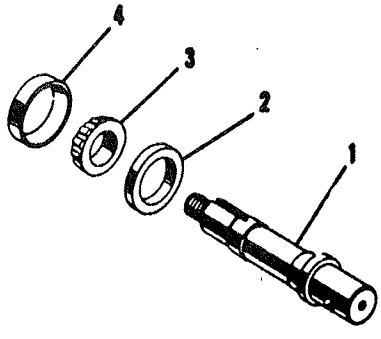












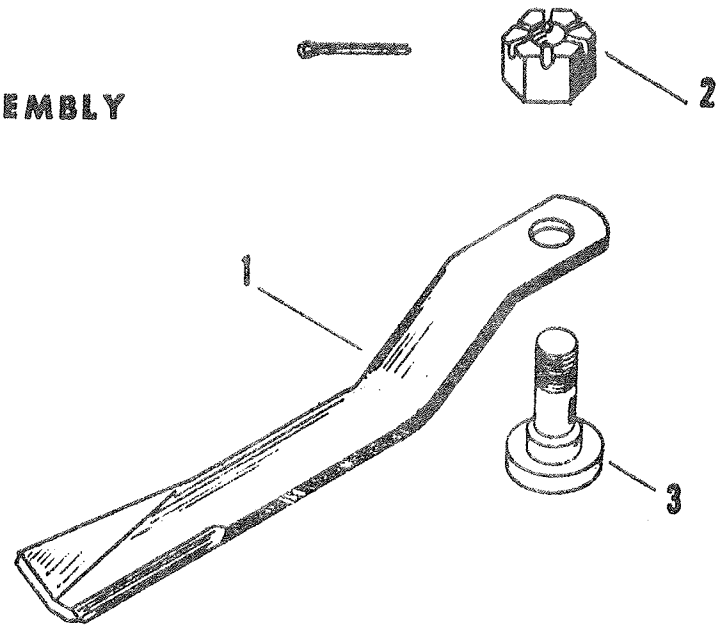
GEAR BOX ASSEMBLY

GEARBOX ASSEMBLY

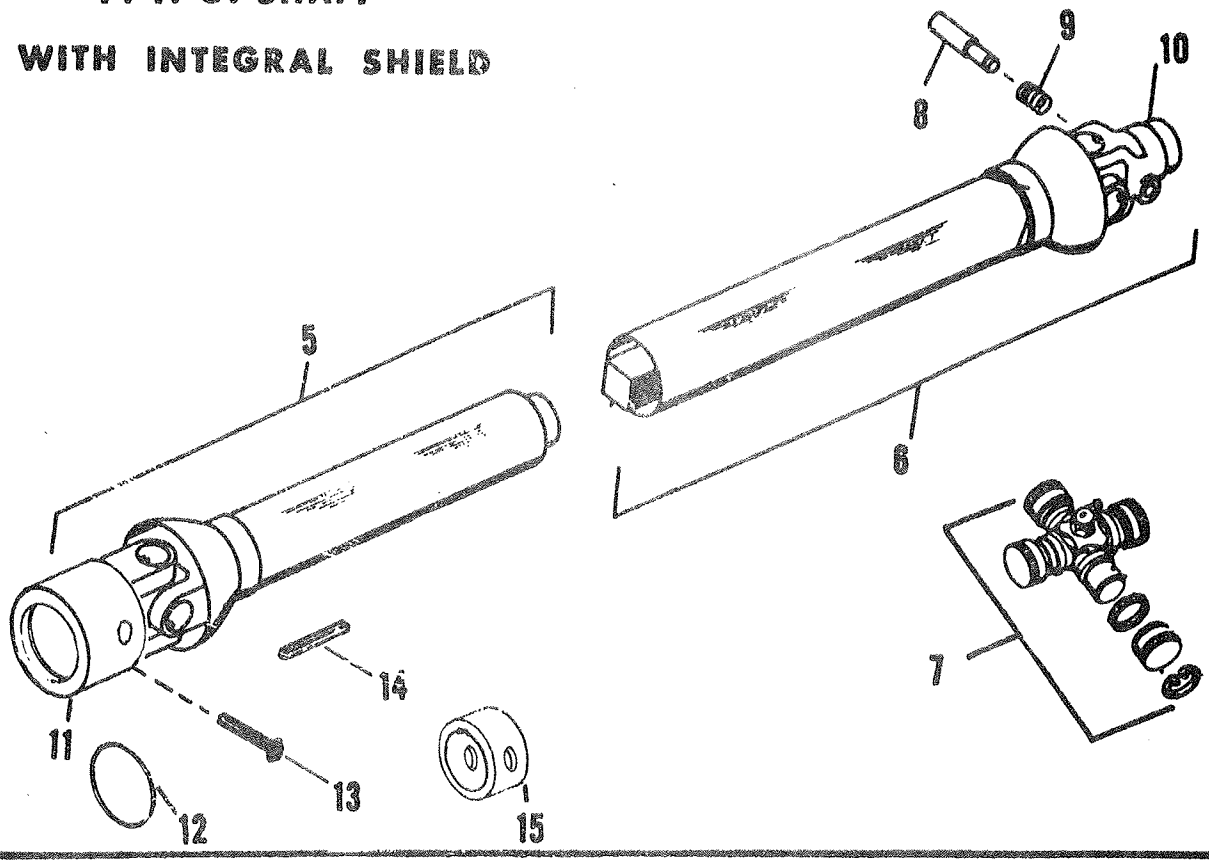
Sym.	Part No.	Part Name	Weight
	6D-926	Gear Box Assembly Complete (model 02) Obsolete*	75.5
	6D-882	Gear Box Assembly Complete (model 03)	75.7
1	6D-925	Input Shaft (model 02)	3.7
	6D-884	Input Shaft (model 03)	3.9
2	7C-727	Seal	.1
3	5C-480	Bearing Cone, Timken #LM48548	.2
4	5C-479	Bearing Cup, Timken #LM48510	.1
5	7C-724	Bearing Carrier	9.0
6	7C-725	Shim (.005")	
7	7C-726	Shim (.007")	
	7C-912	Shim (.015")	
8	8C-645	Input Bevel Gear	5.7
9	4C-800	Key	
10	2C-458	Bearing Retaining Washer	
11	5C-779	Nut	
12	6C-133	Key	
13	8C-646	Output Bevel Gear	1.9
14	7C-722	Expansion Plug	
15	7C-732	Breather Assembly	
16	7C-713	Drive Housing	35.0
17	7C-723	Seal	.1
18	8C-652	Output Shaft	16.0

*Order
1 - 6D-882 Gearbox Assembly - Complete
1 - 6D-886 Shear Yoke Sleeve
1 - 7D-176 Drive Key

BLADE ASSEMBLY



P. T. O. SHAFT
WITH INTEGRAL SHIELD



BLADE ASSEMBLY

Item	Part No.	Part Name	Weight
1	8C-599	Swinging Blade	12.0
2	8C-609	Nut	1.0
3	9C-421	Shoulder Pivot Bolt	1.8

P.T.O. SHAFT - RSS-60

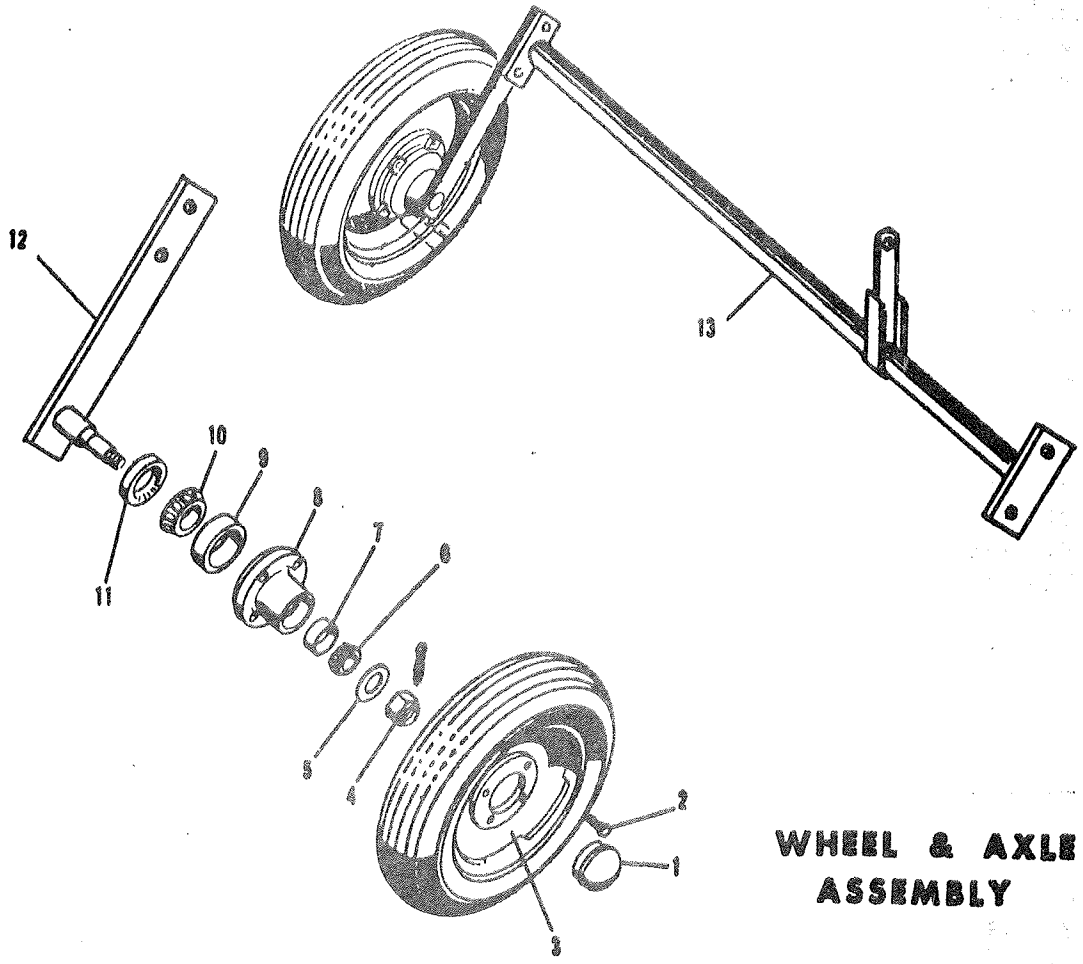
5	6D-888	Joint & Tube Assembly - Complete	20.7
*	9C-451	Yoke & Tube Assembly - (less guard)	10.7
*	9C-452	Rear Guard Assembly - Only	6.4
6	9C-329	Joint & Shaft Assembly - Complete	24.0
*	9C-449	Yoke & Shaft Assembly - (less guard)	15.7
*	9C-450	Front Guard Assembly - Only	5.1

P.T.O. SHAFT - RSSP-60

5	6D-887	Joint & Tube Assembly - Complete	15.0
*	9C-447	Yoke & Tube Assembly - (Less guard)	7.4
*	9C-448	Rear Guard Assembly - Only	3.8
6	9C-328	Joint & Shaft Assembly - Complete	18.8
*	9C-444	Yoke & Shaft Assembly - (less guard)	10.7
*	9C-445	Front Guard Assembly - Only	4.9

P.T.O. SHAFT PARTS - BOTH MODELS

7	7C-270	Joint Repair Kit	.8
8	3D-757	Lock Pin	.2
9	5C-257	Spring	
10	7C-265	Q.D. Yoke Only - 1-3/8 - 6 Spline	2.2
11	6D-889	Shear Yoke	3.3
12	6D-892	Retaining Ring	.1
13	6D-893	Shear Pin	.2
14	6C-44	Drive Key (Model 02)	.1
	7D-176	Drive Key (Model 03)	.1
15	6D-896	Shear Yoke Sleeve (Model 02)	1.3
	6D-886	Shear Yoke Sleeve (Model 03)	1.2
*	8C-302	Retaining Ring - Guard	.1
*	8C-301	Set of 8 Balls	.2



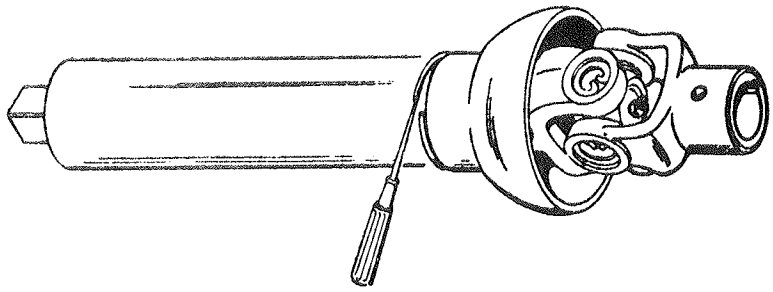
WHEEL & AXLE ASSEMBLY

INDEX NO.	PART NO.	PART NAME	WEIGHT
1	5C-908	Cap	0.1
2	5C-100	Bolt	
3	5C-916	Wheel Only - 15"	15.0
	8C-470	Wheel Only - 14"	15.0
4	5C-909	Nut	
5	5C-907	Washer	0.1
6	5C-911	Cone #LM11949	0.2
7	5C-912	Cup #LM11910	0.2
8	5C-904	Wheel Hub	6.3
9	5C-914	Cup #LM67010	0.2
10	5C-913	Cone #LM67048	0.2
11	5C-910	Seal	0.1
12	8C-621	Axle Arm Assembly	54.4
13	8C-578	Main Axle Assembly	65.0

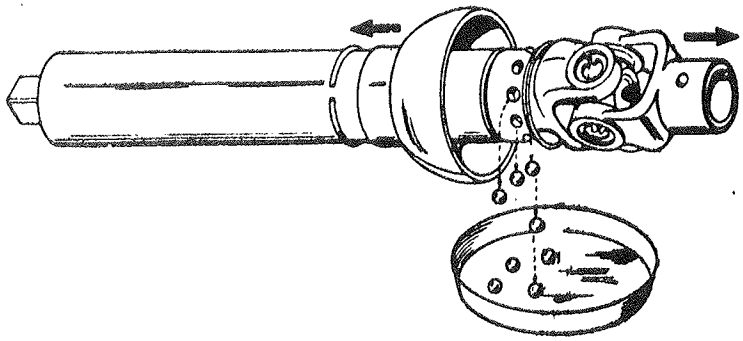
INSTRUCTIONS FOR REMOVING

QUICK DETACHABLE FREE WHEELING GUARD

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



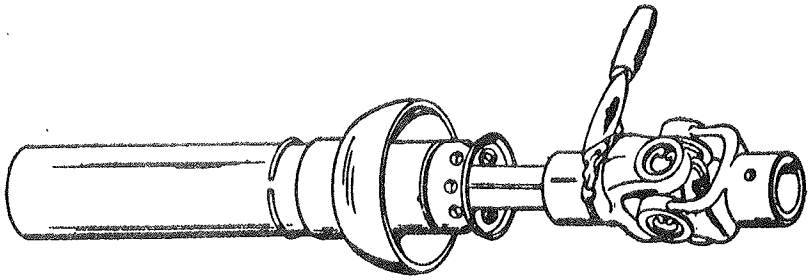
2. Hold assembly over container so that balls will not be lost and slide bell away from joint toward opposite end of tube. If balls do not drop out, slide tube away from joint, forcing balls from cage.



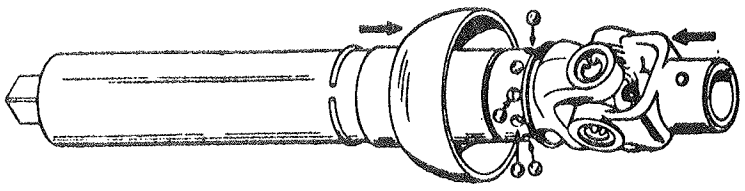
INSTRUCTIONS FOR ASSEMBLING

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