

REPAIR PARTS CATALOG
OPERATOR'S MANUAL

Brillion
60" ROTARY SHREDDER

MODELS RSS-60 & RSSP-60

A product of the

BRILLION IRON WORKS • BRILLION, WISCONSIN

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#

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

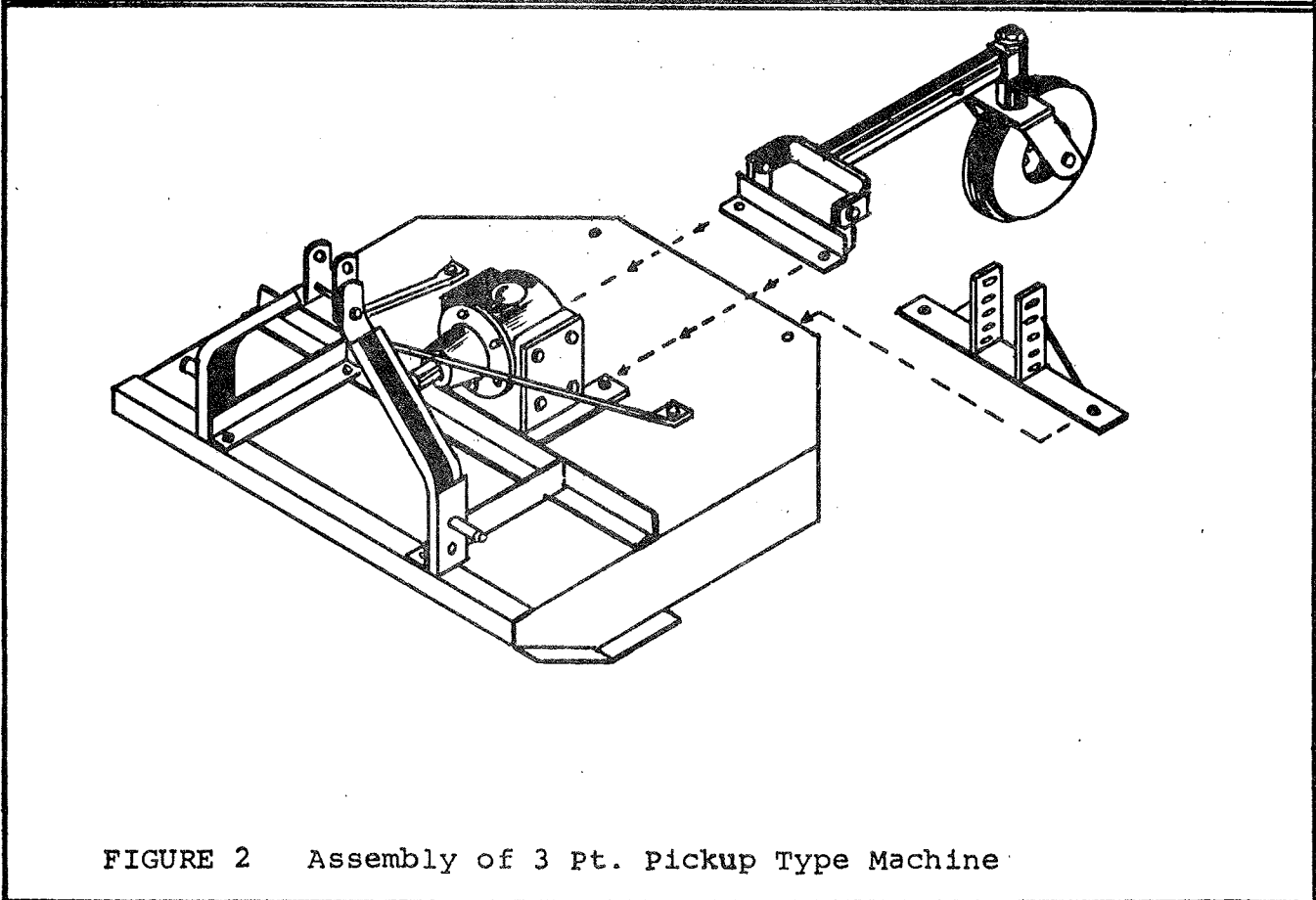
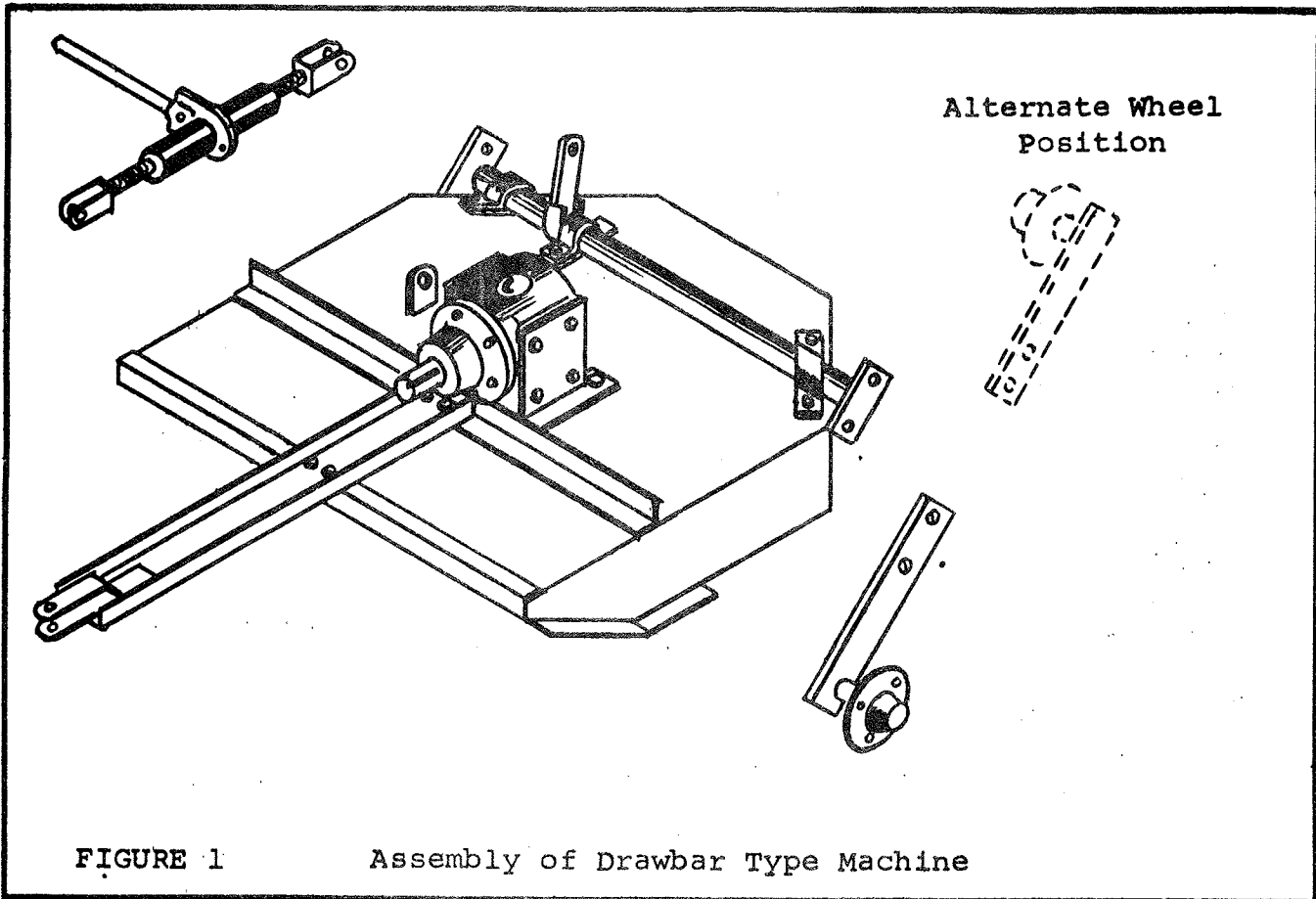
Drawbar Type

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 and rollpin which will be found taped to the gearbox shaft. BE SURE to tighten the setscrew over the key.

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.



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 rollpin and key found taped to the input gear shaft. BE SURE to tighten securely the small setscrew over the key.

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.

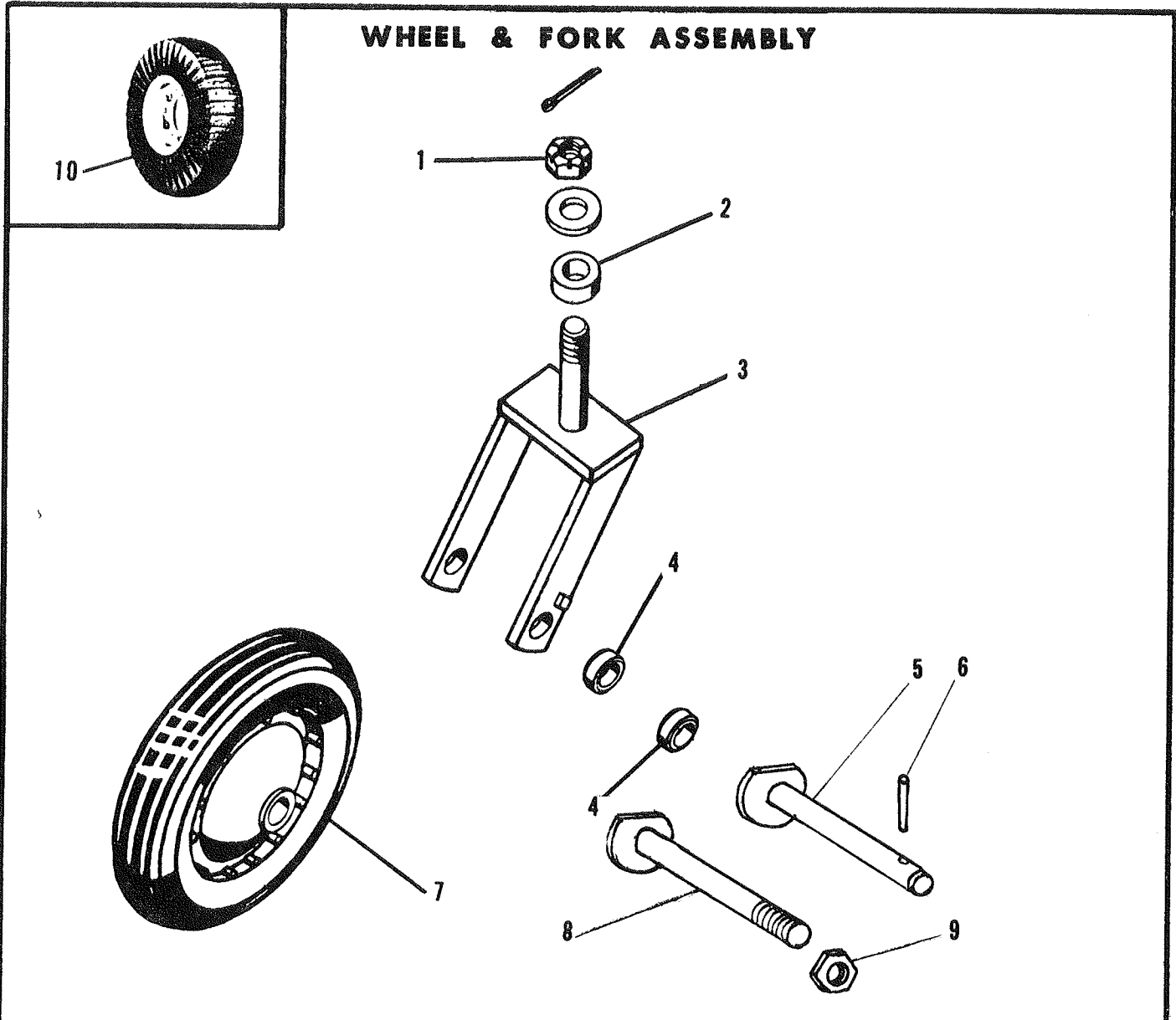
These machines are rated for general service in mowing and grass cutting, shredding prunings, cornstalks, straw, etc. and brush up to approximately 1" in diameter.

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

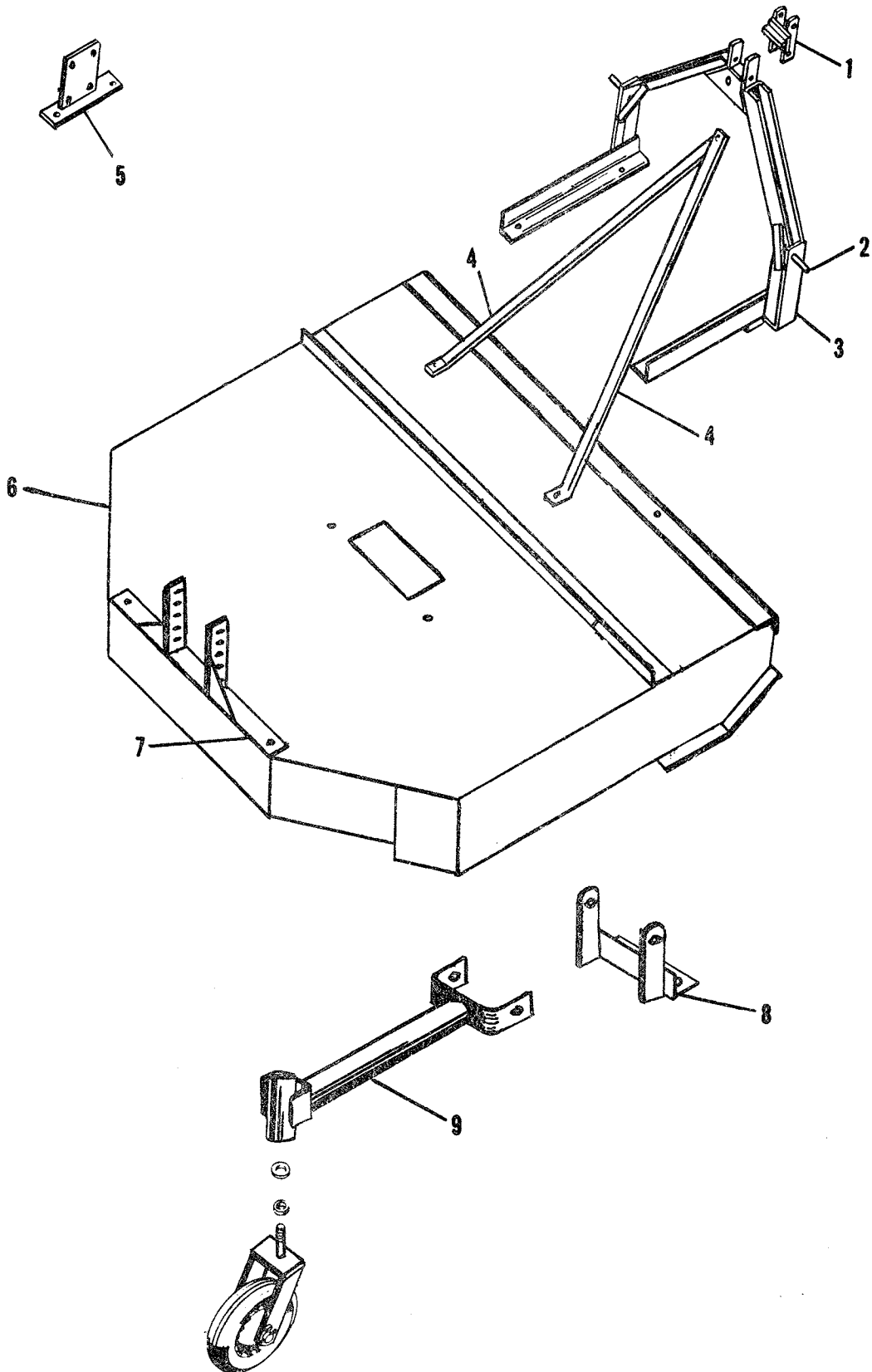
These shredders are designed to require simple lubrication procedures. Lube fittings are located on universal joints of the P. T. O. assembly. The pickup shredder also has fittings on the tailwheel assembly; one fitting is on the wheel hub and the other on the tailwheel pivot arm. The only oil check 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.



Index No.	Part No.	Part Name	Weight
1	6C-465	Nut	
2	6C-494	Washer	0.2
3	2D-115	Wheel Fork	8.2
<u>Wheel Components (Pneumatic)</u>			
4	6C-466	Spacer	0.1
5	3D-963	Axle	1.0
6	1C-174	Roll Pin	
7	3D-959	Tire, Rim & Hub Complete	9.1
<u>Wheel Components (Laminated)</u>			
4	3D-961	Spacer	0.1
8	2D-118	Axle	1.0
9	9C-223	Stover Nut	
10	2D-111	Tire, Rim & Hub Complete	18.0

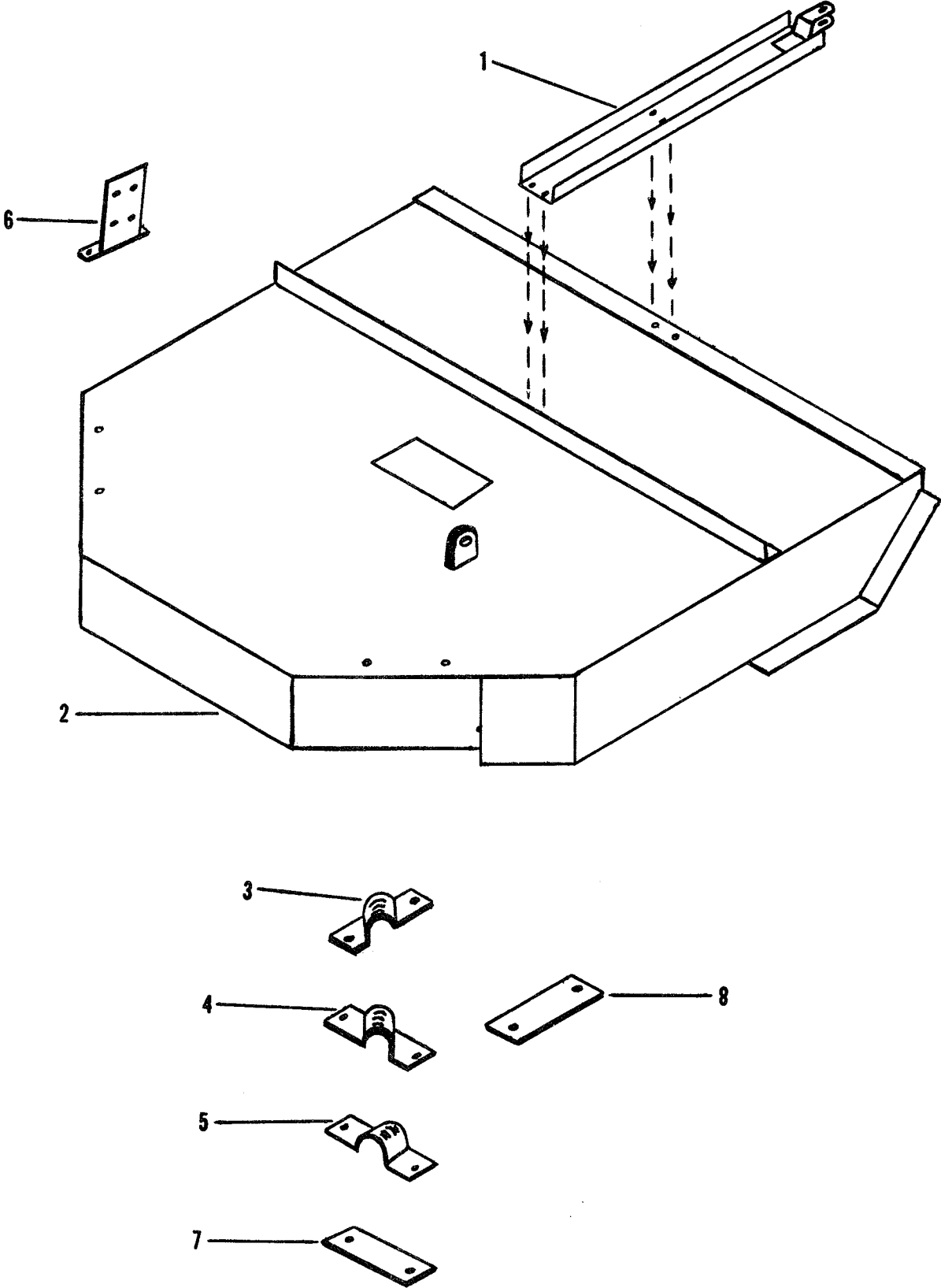
PICKUP HOOD & TAILWHEEL ASSEMBLY



PICKUP HOOD & TAILWHEEL ASSEMBLY

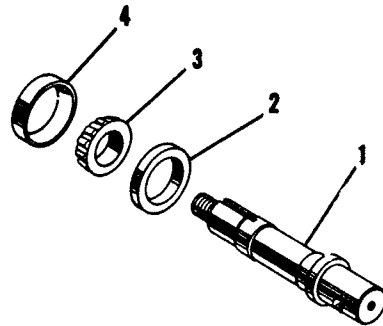
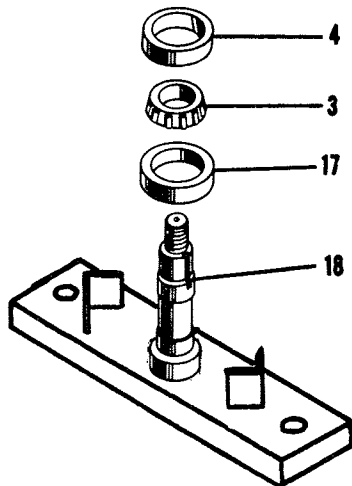
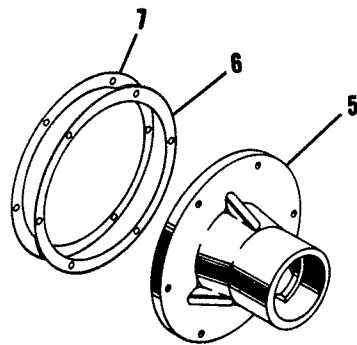
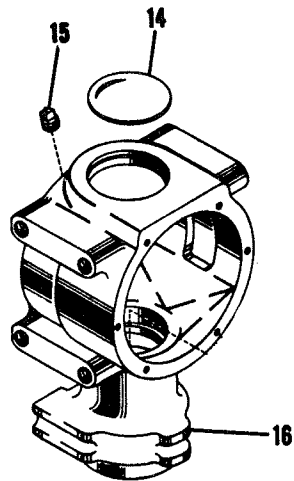
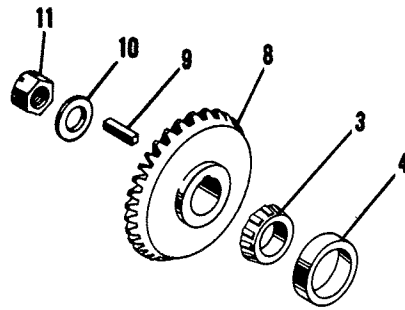
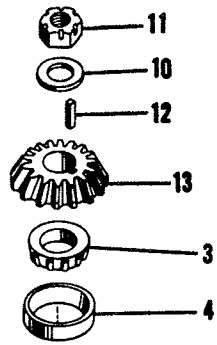
Sym.	Part No.	Part Name	Weight
1	5C-442	Float Link	4.6
2	5C-443	Hitch Pin	.7
3	8C-644	Pickup Hitch Frame	40.0
4	8C-811	Frame Brace	5.2
5	8C-653	Gearbox Mtg. Bracket	6.1
6	8C-637	Hood Assembly, Pickup Type	
7	8C-632	Height Adj. Bracket	7.4
8	8C-648	Gearbox Bracket	3.1
9	8C-647	Tailwheel Arm Assembly	16.2

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

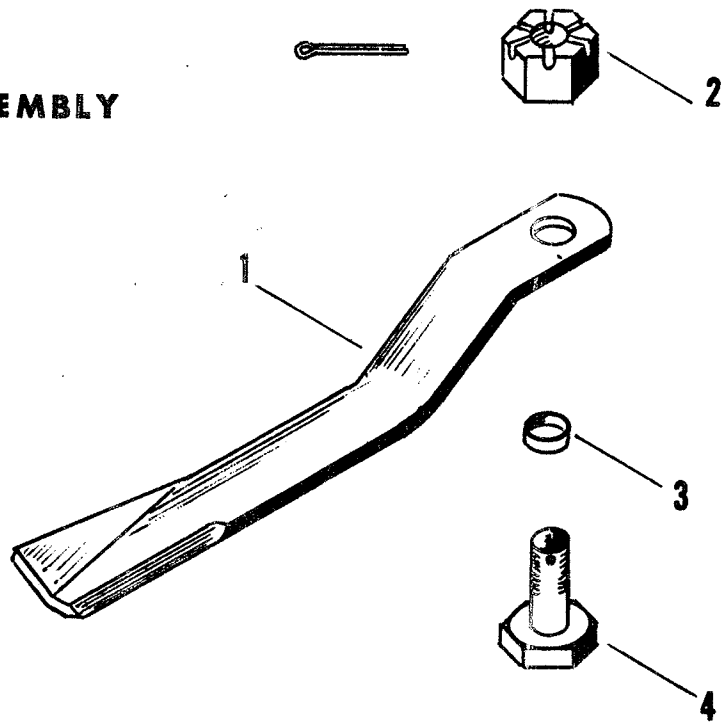


GEAR BOX ASSEMBLY

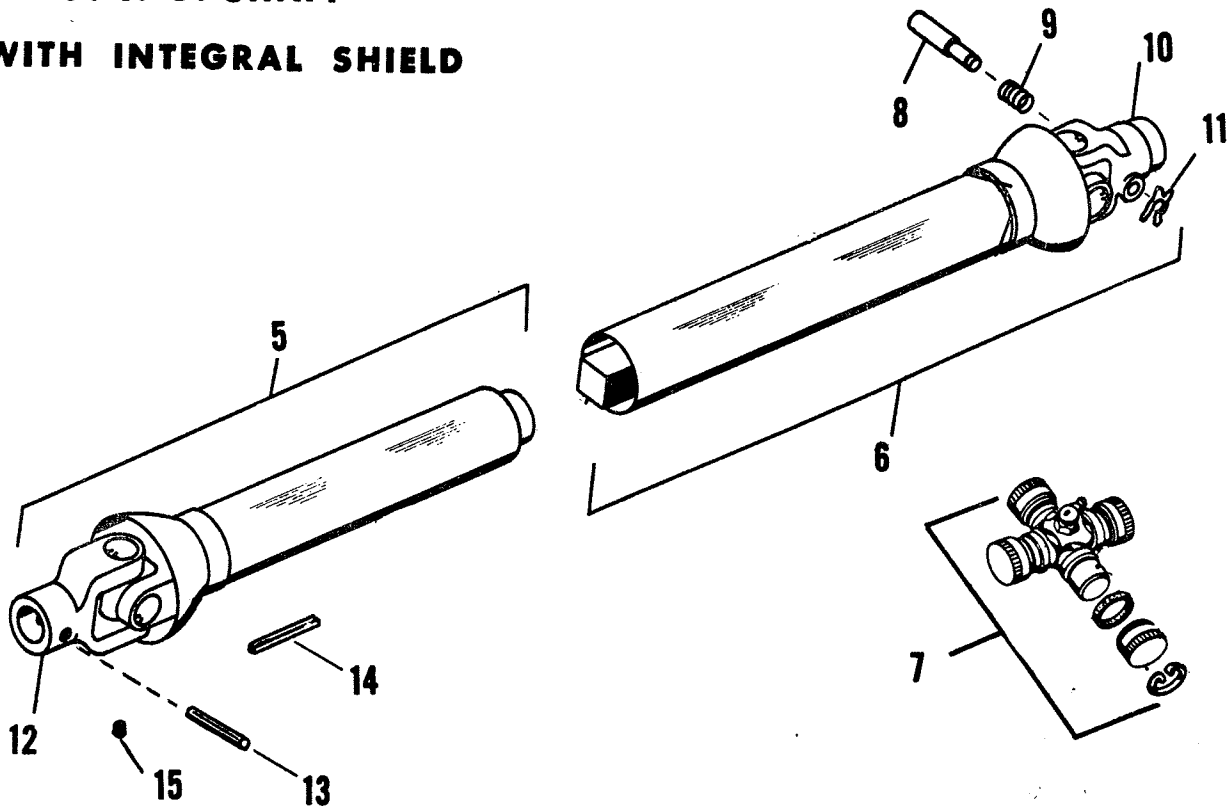
GEAR BOX ASSEMBLY

Sym.	Part No.	Part Name	Weight
	8C-649	Gear Box Assembly Complete	75.5
1	8C-651	Input Shaft	3.7
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")	
8	8C-645	Input Bevel Gear	5.7
9	4C-800	Key	
10	5C-95	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

BLADE ASSEMBLY

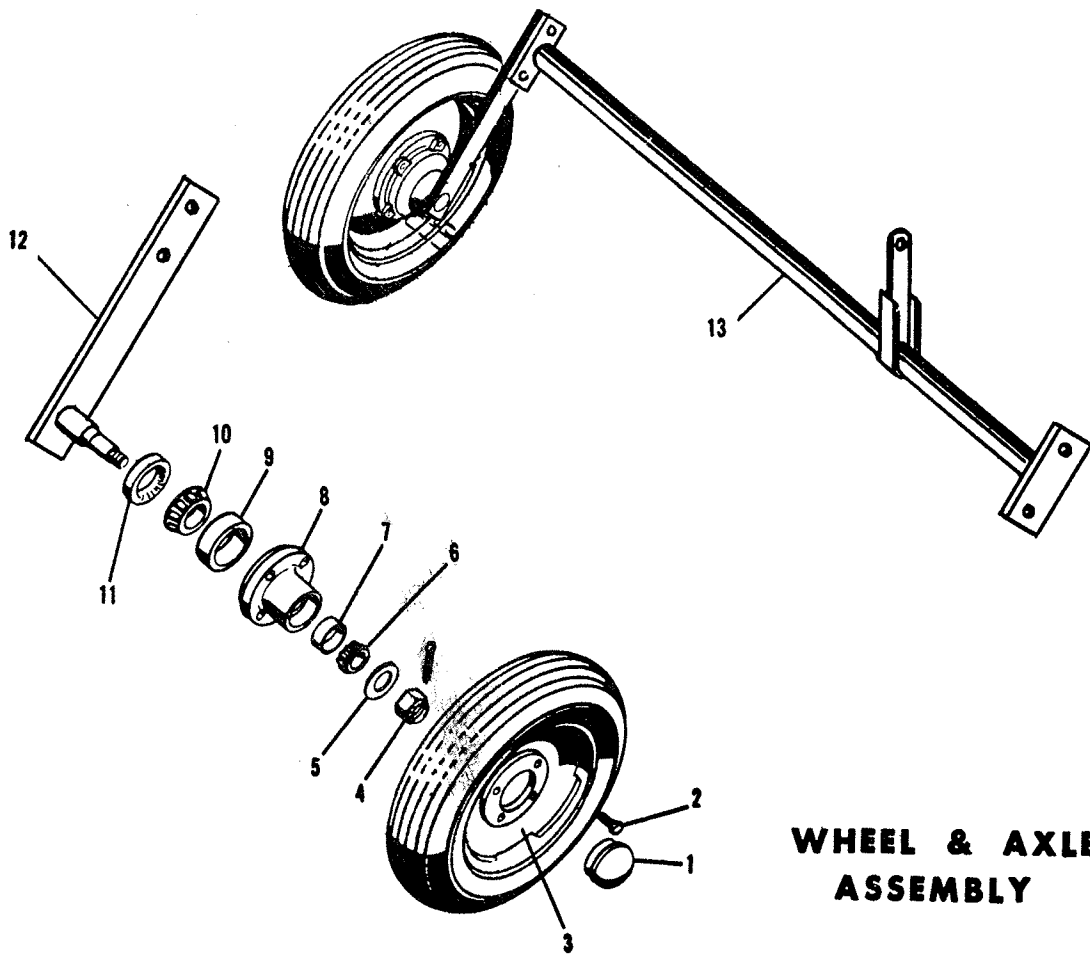


P. T. O. SHAFT WITH INTEGRAL SHIELD



8C658

BLADE ASSEMBLY			
Item	Part No.	Part Name	Weight
1	8C-599	Swinging Blade	12.0
2	8C-609	Nut	1.0
3	8C-604	Sleeve	
4	8C-603	Pivot Bolt - Hex Head	2.0
*	9C-421	Shoulder Pivot Bolt - Replaces 8C-603 & 8C-604	1.7
*	9C-424	Woodruff Key	
P. T. O. SHAFT - RSS-60			
5	7C-888	1" x 1-1/8" Drive Shaft Tube & Joint Assembly - Complete	16.0
*	8C-460	Tube & Yoke Assembly (less guard)	9.8
*	8C-462	Rear Guard Assembly - Only	5.6
6	8C-615	Shaft & Joint Assembly - Complete	21.1
*	9C-193	Shaft & Yoke Assembly (less guard)	12.8
*	9C-192	Front Guard Assembly - Only	5.1
		1-3/16" Square Drive Shaft	
5	9C-330	Joint & Tube Assembly - Complete	19.7
*	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 - RSP-60			
5	8C-617	1" x 1-1/8" Drive Shaft Tube & Joint Assembly - Complete	14.1
*	9C-191	Tube & Yoke Assembly - (less guard)	7.4
*	9C-190	Rear Guard Assembly - Only	3.8
6	7C-889	Shaft & Joint Assembly - Complete	17.0
*	8C-459	Shaft & Yoke Assembly - (less guard)	9.4
*	8C-461	Front Guard Assembly - Only	4.4
		1-3/16" Square Drive Shaft	
5	9C-327	Joint & Tube Assembly - Complete	14.0
*	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	5C-987	Lock Pin (Obsolete - Order 3D-757)	.2
9	5C-257	Spring	
10	7C-265	Q. D. Yoke Only - 1-3/8 - 6 Spline	2.2
*	7C-271	Tractor Yoke Only - 1-1/8 - 6 Spline	2.1
11	5C-939	X Washer (Not required with 3D-757)	
12	7C-266	Gearbox Yoke	2.1
13	4C-858	Rollpin	
14	6C-44	Drive Key	
15	3D-668	Setscrew	
*	8C-302	Retaining Ring - Guard	.1
*	8C-301	Set of 8 Balls	.2
*	1C-121	Light Jam Nut	

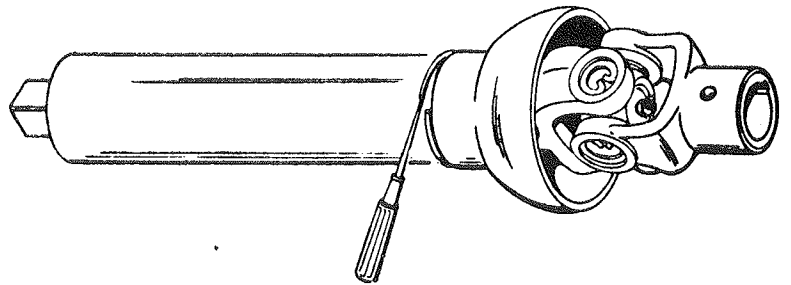


**WHEEL & AXLE
ASSEMBLY**

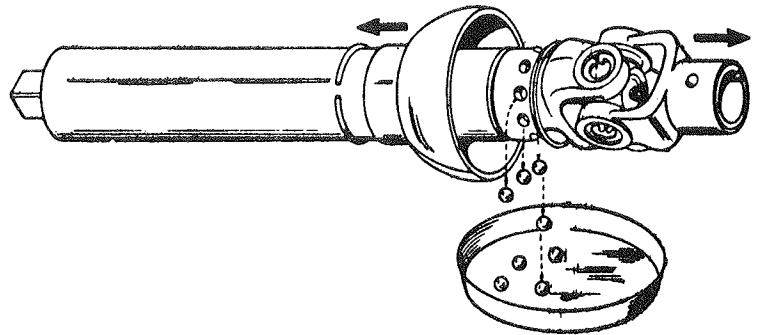
INDEX NO.	PART NO.	PART NAME	WEIGHT
1	5C-908	Cap	0.1
2	5C-100	Bolt	
3	5C-916	Wheel Only - 15"	15.0
	8C-470	Wheel Only - 14"	15.0
4	5C-909	Nut	
5	5C-907	Washer	0.1
6	5C-911	Cone #LM11949	0.2
7	5C-912	Cup #LM11910	0.2
8	5C-904	Wheel Hub	6.3
9	5C-914	Cup #LM67010	0.2
10	5C-913	Cone #LM67048	0.2
11	5C-910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

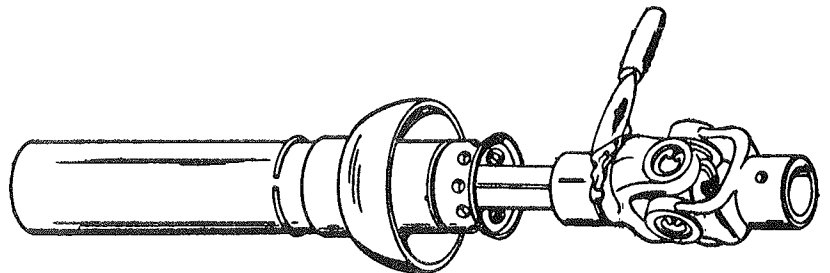


2. Hold assembly over container so that balls will not be lost and slide bell away from joint toward opposite end of tube. If balls do not drop out, slide tube away from joint, forcing balls from cage.

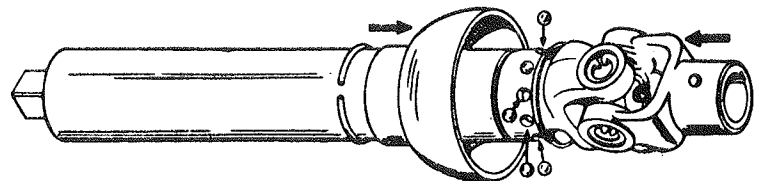


INSTRUCTIONS FOR ASSEMBLING
QUICK DETACHABLE FREE WHEELING GUARD

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

