

COMMERCIAL REAR WHEEL DRIVE REBUILD GUIDE

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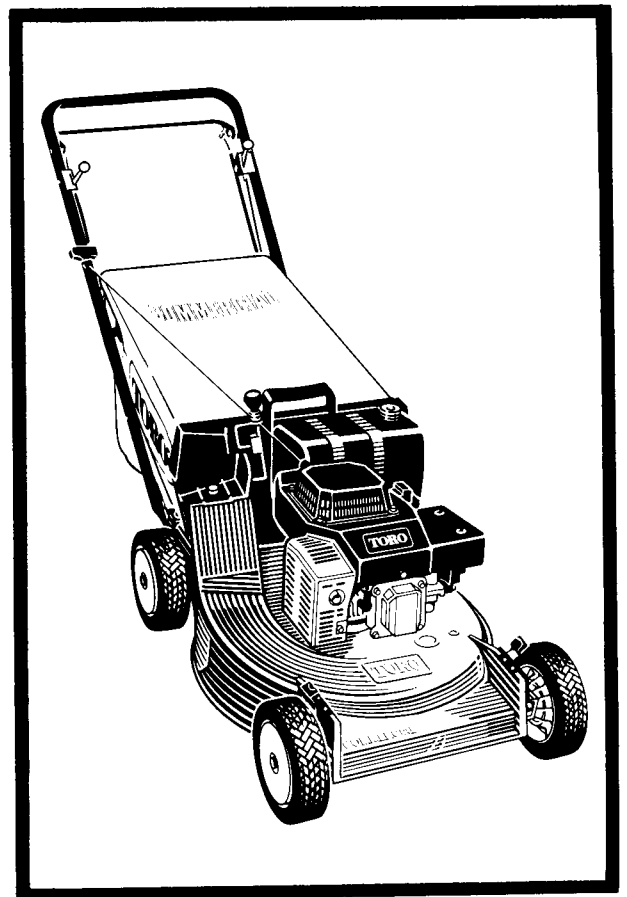
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TORO®

**1983-1989
COMMERCIAL**

REAR BAGGER DRIVE SYSTEM REBUILD GUIDE



PREFACE

The rear drive system on Toro Commercial Rear Drive Walk Power Mowers has been improved almost yearly since its introduction in 1983. While the result is a very durable, high quality mower, servicing can be difficult because of the many improvements and parts cross-references.

The purpose of this guide is to aid in servicing the rear drive system on 1983 through 1989 Toro Commercial Rear Drive Mowers. We're hopeful that it will:

1. Inform you of the most effective way to rebuild the Toro Commercial Rear Drive System.
2. Reduce time spent paging from cross reference to cross reference in the parts catalog.
3. Help reduce your parts stock by indicating obsolete parts.

This document supercedes Commercial Rotaries Service Bulletins 13 and 16 regarding rebuilding the rear drive system. However, use of the rebuild kits referenced in Service Bulletin number 17 is still highly recommended whenever output shaft replacement becomes necessary.

If you have comments or questions regarding this guide, please feel free to contact us at:

**The Toro Company
Consumer Service Department
8111 Lyndale Avenue South
Minneapolis, MN, USA 55420
phone: 612-888-8801**

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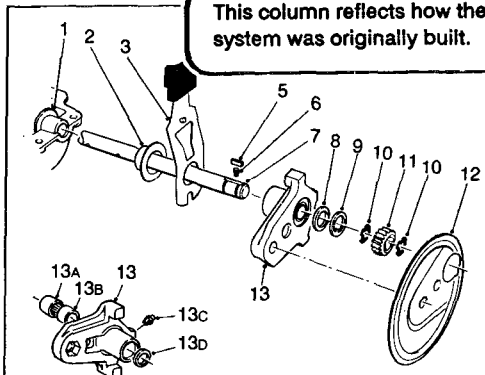
This year range refers to the year of manufacture. Check the first digit of the unit's serial number to determine which rebuild information applies.

The rear drive system has been broke down into five sub-systems. This title, indicates the sub-system covered on a particular page.

Commercial Suspension System (cont'd)

Major Rebuild** 1983

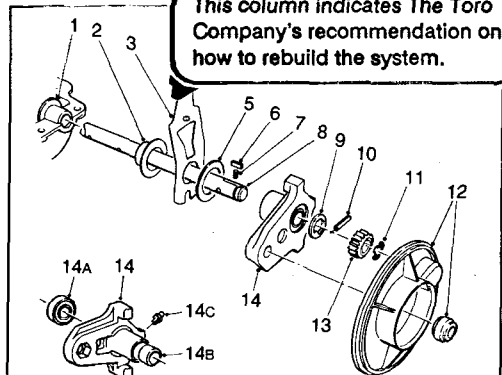
Original



Ref #	Part Number	Description	Qty
1	48-2450	Output Bushing	2
†	24-7922	Shaft Cover	1
2	48-2170	End Cap	2
3			2
4			2
5			2
6	39-9650	Spring	2
7	44-0850	Output Shaft	1
8	48-2890	Thrust Washer	2
9	48-2580	Keyed Thrust Washer	2
10	32151-68	Grip Ring	4
11	39-9160	Pinion	2
12	44-0600	Wheel Cover	2
13	48-2540	Pivot Arm Assy	2
		Includes:	
13a	47-7270	Needle Bearing	2
13b	47-2890	Bushing	2
13c	302-56	Grease Fitting	2
13d	47-7260	Ser	

Parts directly across from another perform the same function.

Rebuild With



Ref #	Part Number	Description	Qty
1	48-2450*	Output Bushing	2
--	--	--	--
2	48-2170	End Cap	2
3	48-2390	Spring Arm Assy	2
4	25-7740	Knob	2
5	36-4770*	Washer	2
6	39-9680*	Key	2
7	39-9650*	Spring	2
8	61-8040*	Output Shaft	1
9	49-7700*		
10	32121-98*		
11	32151-68*		
13	39-9160*		
12	74-1680	Wheel Cover Kit	2
14	53-7940*	Pivot Arm Assy	2
		Includes:	
14a	52-2450	Ball Bearing	2
14b	47-2890	Bushing	2
14c	302-56	Grease Fitting	2
--	--	--	--

These numbers refer to notes at the bottom of the page.

These notes give important information regarding parts that have changed.

Service Tips listed here provide important information regarding parts installation and maintenance to insure maximum durability.

- ** Major rebuild is one
 • Parts included in re
 † Not illustrated.

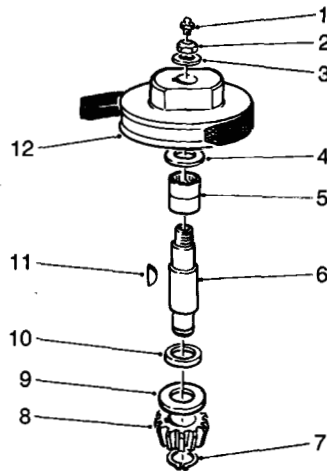
1. Bracketed parts are interchangeable as a group only.
2. Interchangeable as an assembly only.
3. Interchangeable as an assembly only.

Service Tips:

- a. Do not flare end of roll pin (32121-98) when installing to prevent damage to seal of bearing.
- b. When output shaft is removed, do not reuse spiral pin, P/N 32121-108. Install new pin, P/N 3285-19.
- c. Grease liberally after every every 25 hours of use to increase service life.

1983-1989

Original



Ref #	Part Number	Description	Qty
1	302-5	Grease Fitting	1
2	3296-5	Lock Nut	1
3	3256-45	Plain Washer	1
4	36-4790	Thrust Washer	1
5	47-7270	Needle Bearing	2
6	48-2460	Input Shaft	1
7	32151-57	Retaining Ring	1
8	39-6660	Bevel Pinion	1
9	47-2910	Thrust Washer	1
10	47-7260	Seal	1
11	3257-1	Woodruff Key	1
12	39-6740	Pulley	1

Rebuild With

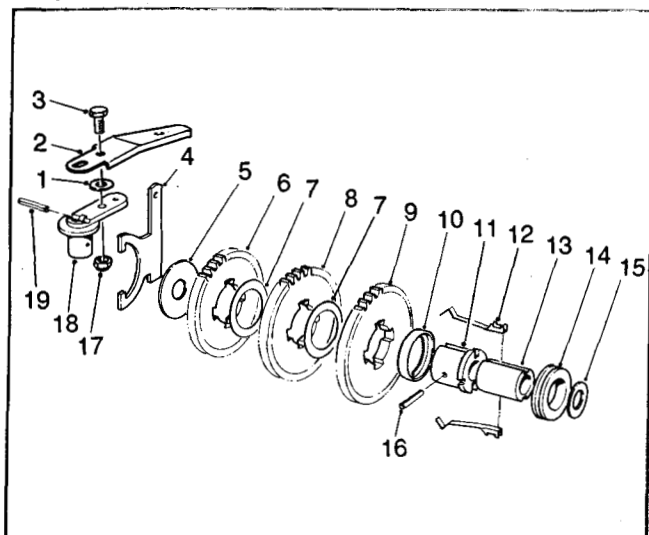
Rebuild as original.

Ref #	Part Number	Description	Qty

Commercial Shifter Mechanism

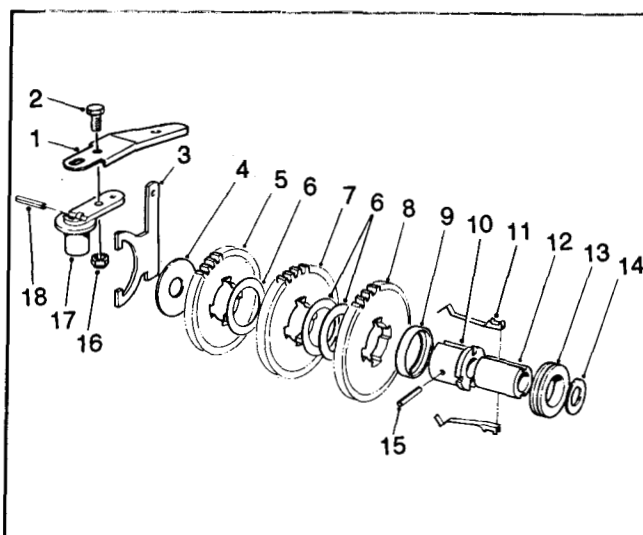
1983-1985

Original



Ref #	Part Number	Description	Qty
1	3256-14	]¹ Plain Washer	1
2	48-2560		1
3	3290-134		1
4	29-9520	Shift Yoke	1
5	29-9690	Plain Washer	1
6	42-4740	38 Tooth Gear	1
7	36-4770	Gear Spacer	2
8	29-9271	42 Tooth Gear	1
9	46-3560	52 Tooth Gear	1
10	39-7830	]² Key Retainer	1
11	39-6730		1
12	29-9330	Shift Key	2
13	39-6720	Sleeve	1
14	29-9340	Shift Collar	1
15	36-4780	Plain Washer	1
16	32121-108	]³ Spiral Pin	1
17	3296-2		1
18	29-9560		1
19	32121-99	Roll Pin	1

Rebuild With



Ref #	Part Number	Description	Qty
--	--	--	--
1	55-8040	]¹ Shift Lever Cover	1
2	3290-134		1
3	29-9520		1
4	29-9690	Plain Washer	1
5	42-4740	38 Tooth Gear	1
6	36-4770	Gear Spacer	3
7	29-9271	42 Tooth Gear	1
8	46-3560	52 Tooth Gear	1
9	55-8020	]² Key Retainer	1
10	55-8010		1
11	29-9330	Shift Key	2
12	39-6720	Sleeve	1
13	29-9340	Shift Collar	1
14	36-4780	Plain Washer	1
15	3285-19	]³ Groove Pin	1
16	3296-2		1
17	29-9560		1
18	32121-99	Roll Pin	1

1. Bracketed parts are interchangeable as a group only.
2. Bracketed parts are interchangeable as a group only.
3. Directly interchangeable.

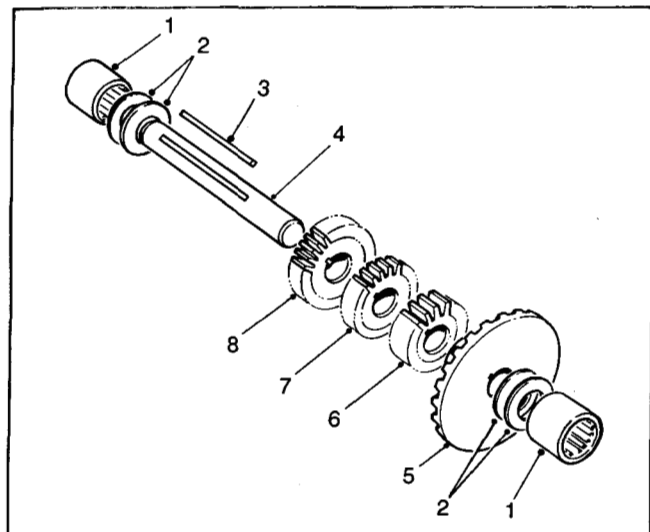
Service Tip:

- a. Use one or two spacers, part number 36-4770, as required to reduce side play.

Commercial Intermediate Shaft

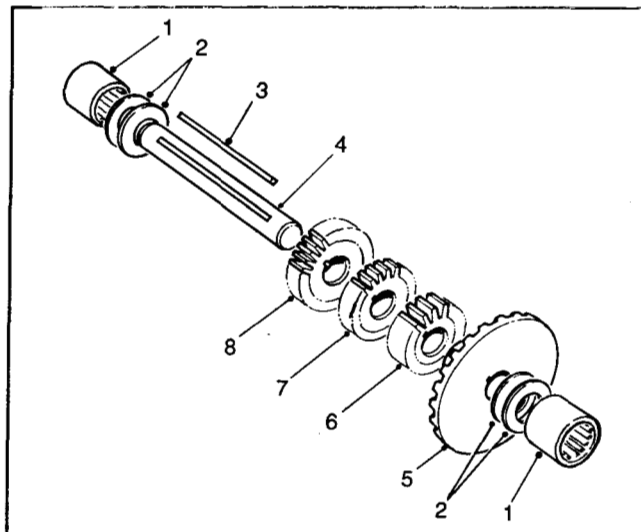
1983-1985

Original



Ref #	Part Number	Description	Qty
1	252-103	Closed Bearing	2
2	36-4790	Thrust Washer	4
3	39-7841	} 1 Square Key	1
4	48-2520		
5	39-6670	Bevel Gear	1
6	46-3540	12 Tooth Gear	1
7	46-3550	14 Tooth Gear	1
8	39-6650	18 Tooth Gear	1

Rebuild With

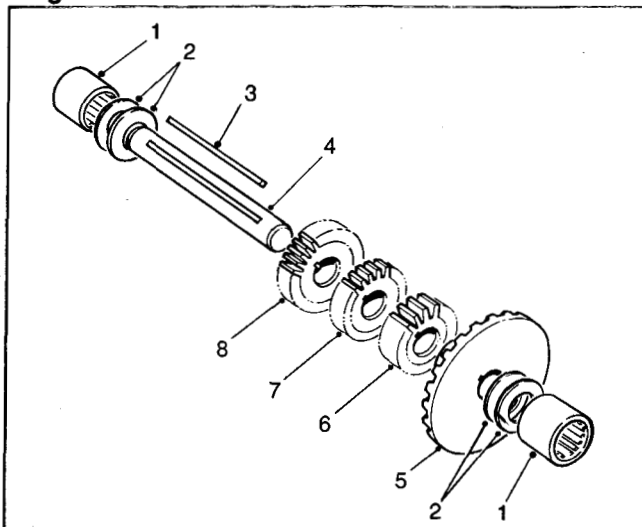


Ref #	Part Number	Description	Qty
1	252-103	Closed Bearing	2
2	36-4790	Thrust Washer	4
3	39-7843	} 1 Square Key	1
4	53-7950		
5	39-6670	Bevel Gear	1
6	46-3540	12 Tooth Gear	1
7	46-3550	14 Tooth Gear	1
8	39-6650	18 Tooth Gear	1

1. Bracketed parts are interchangeable as a group only.

1986-1989

Original



Ref #	Part Number	Description	Qty
1	252-103	Closed Bearing	2
2	36-4790	Thrust Washer	4
3	39-7843	Square Key	1
4	53-7950	Intermediate Shaft	1
5	39-6670	Bevel Gear	1
6	46-3540	12 Tooth Gear	1
7	46-3550	14 Tooth Gear	1
8	39-6650	18 Tooth Gear	1

Rebuild With

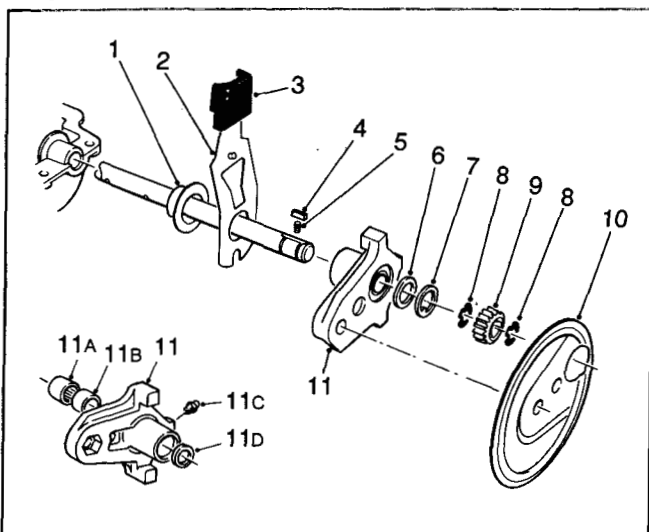
Rebuild as original

Ref #	Part Number	Description	Qty
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Commercial Suspension System

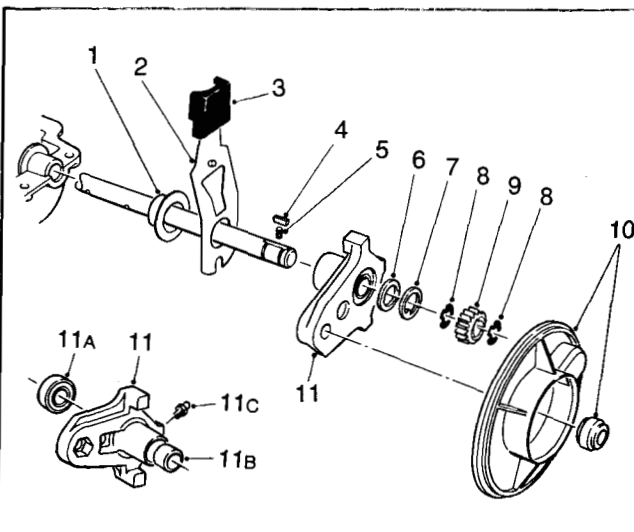
Minor Rebuild** 1983

Original



Ref #	Part Number	Description	Qty
1	48-2170	End Cap	2
2	48-2390	Spring Arm Assy	2
3	25-7740	Knob Arm	2
4	39-9680	Key	2
5	39-9650	Spring	2
6	48-2890	Thrust Washer	2
7	48-2580	Keyed Thrust Washer	2
8	32151-68	Grip Ring	4
9	39-9160	Pinion	2
10	44-0600	1 Wheel Cover	2
11	48-2540	2 Pivot Arm Assy	2
		Includes:	
11a	47-7270	Needle Bearing	2
11b	47-2890	Bushing	2
11c	302-56	Grease Fitting	2
11d	47-7260	Seal	2

Rebuild With



Ref #	Part Number	Description	Qty
1	48-2170	End Cap	2
2	48-2390	Spring Arm Assy	2
3	25-7740	Knob	2
4	39-9680	Key	2
5	39-9650	Spring	2
6	48-2890	Thrust Washer	2
7	48-2580	Keyed Thrust Washer	2
8	32151-68	Grip Ring	4
9	39-9160	Pinion	2
10	74-1680	1 Wheel Cover Kit	2
11	53-7940	2 Pivot Arm Assy	2
		Includes:	
11a	52-2450	Ball Bearing	2
11b	47-2890	Bushing	2
11c	302-56	Grease Fitting	2
--	--	--	--

** Minor rebuild is one where output shaft does *not* require replacement.

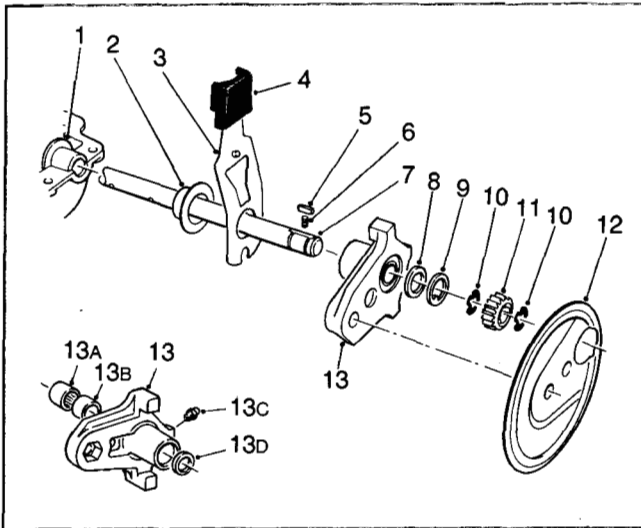
1. Interchangeable as an assembly only.
2. Interchangeable as an assembly only.

Service Tip:

- a. Grease liberally after every 25 hours of use to increase service life.

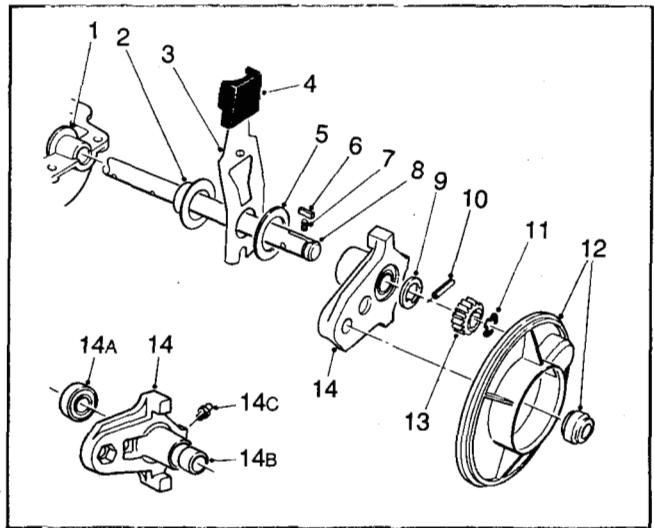
Major Rebuild** 1983

Original



Ref #	Part Number	Description	Qty
1	48-2450	Output Bushing	2
†	24-7922	Shaft Cover	1
2	48-2170	End Cap	2
3	48-2390	Spring Arm Assy	2
4	25-7740	Knob Arm	2
--	--	--	--
5	39-9680	Key	2
6	39-9650	Spring	2
7	44-0850	1 Output Shaft	1
8	48-2890		2
9	48-2580		2
--	--	--	--
10	32151-68	Grip Ring	4
11	39-9160		2
12	44-0600	2 Wheel Cover	2
13	48-2540		2
		3 Pivot Arm Assy	
		Includes:	
13a	47-7270	Needle Bearing	2
13b	47-2890	Bushing	2
13c	302-56	Grease Fitting	2
13d	47-7260	Seal	2

Rebuild With



Ref #	Part Number	Description	Qty
1	48-2450*	Output Bushing	2
--	--	--	--
2	48-2170	End Cap	2
3	48-2390	Spring Arm Assy	2
4	25-7740	Knob	2
5	36-4770*	Washer	2
6	39-9680*	Key	2
7	39-9650*	Spring	2
8	61-8040*	1 Output Shaft	1
--	--		--
9	49-7700*	Keyed Thrust Washer	2
10	32121-98*	Roll Pin	2
11	32151-68*	Grip Ring	2
13	39-9160*	Pinion	2
12	74-1680	2 Wheel Cover Kit	2
14	53-7940*		2
		3 Pivot Arm Assy	
		Includes:	
14a	52-2450	Ball Bearing	2
14b	47-2890	Bushing	2
14c	302-56	Grease Fitting	2
--	--	--	--

** Major rebuild is one where output shaft requires replacement.

* Parts included in rebuild kit part number 13-3449

† Not illustrated.

1. Bracketed parts are interchangeable as a group only.
2. Interchangeable as an assembly only.
3. Interchangeable as an assembly only.

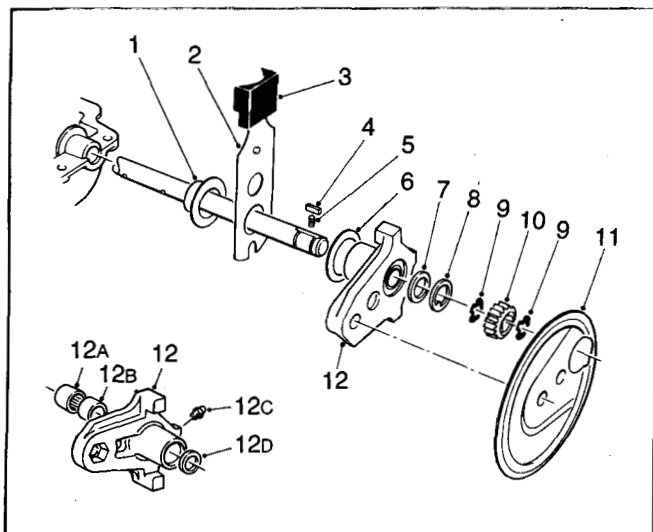
Service Tips:

- a. Do not flare end of roll pin (32121-98) when installing to prevent damage to seal of bearing.
- b. When output shaft is removed, do not reuse spiral pin, P/N 32121-108. Install new pin, P/N 3285-19.
- c. Grease liberally after every 25 hours of use to increase service life.

Commercial Suspension System (cont'd)

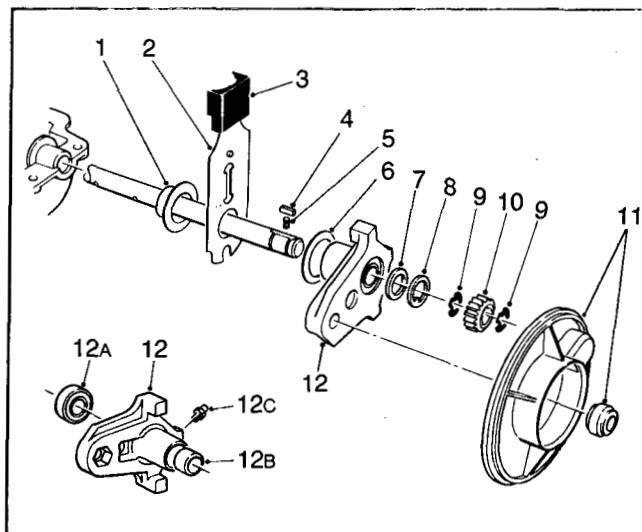
Minor Rebuild** 1984-1985

Original



Ref #	Part Number	Description	Qty
1	48-2170	End Cap	2
2	49-8810	Spring Arm Assy	2
3	25-7740	Knob Arm	2
4	39-9680	Key	2
5	39-9650	Spring (1984)	2
	53-7850	Spring (1985)	2
6	36-4770	Washer	2
7	48-2890	Thrust Washer	2
8	48-2580	Keyed Thrust Washer	2
9	32151-68	Grip Ring	4
10	39-9160	Pinion	2
11	44-0600	Wheel Cover	2
12	48-2540	Pivot Arm Assy	2
		Includes:	
12a	47-7270	Needle Bearing	2
12b	47-2890	Bushing	2
12c	302-56	Grease Fitting	2
12d	47-7260	Seal	2

Rebuild With



Ref #	Part Number	Description	Qty
1	48-2170	End Cap	2
2	66-7561	Spring Arm Assy	2
3	25-7740	Knob	2
4	39-9680	Key	2
5	39-9650	Spring	2
--	--	--	--
6	36-4770	Washer	2
7	48-2890	Thrust Washer	2
8	48-2580	Keyed Thrust Washer	2
9	32151-68	Grip Ring	4
10	39-9160	Pinion	2
11	74-1680	Wheel Cover Kit	2
12	53-7940	Pivot Arm Assy	2
		Includes:	
12a	52-2450	Ball Bearing	2
12b	47-2890	Bushing	2
12c	302-56	Grease Fitting	2

** A minor rebuild is one in which the output shaft *does not* require replacement.

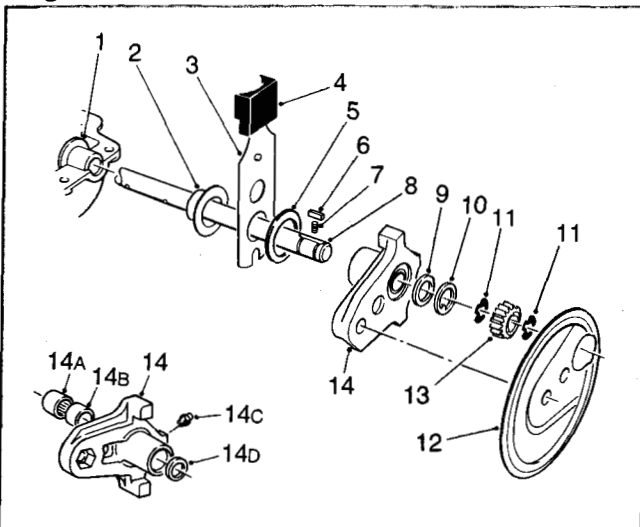
1. Directly interchangeable.
2. Interchangeable as an assembly only
3. Interchangeable as an assembly only.

Service Tips:

- a. Spring arm 66-7561 will change height of cut slightly when compared with 49-8810. When retrofitting, update all four at once.
- b. Grease liberally after every 25 hours of use to increase service life.

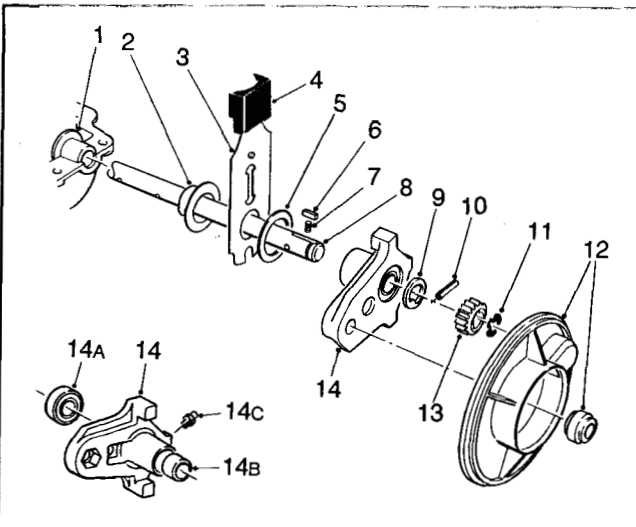
Major Rebuild** 1984-1985

Original



Ref #	Part Number	Description	Qty
1	48-2450	Output Bushing	2
†	24-7922	Shaft Cover	2
2	48-2170	End Cap	2
3	49-8810	1 Spring Arm Assy	2
4	25-7740	Knob Arm	2
5	36-4770	Washer	2
6	39-9680	Key	2
7	39-9650	Spring (1984)	2
	53-7850	Spring (1985)	2
8	44-0850	2 Output Shaft	2
9	48-2890	Thrust Washer	2
10	48-2580	Keyed Thrust Washer	2
--	--	--	--
11	32151-68	Grip Ring	4
12	44-0600	3 Wheel Cover	2
13	39-9160	Pinion	2
14	48-2540	4 Pivot Arm Assy	2
		Includes:	
14a	47-7270	Needle Bearing	2
14b	47-2890	Bushing	2
14c	302-56	Grease Fitting	2
14d	47-7260	Seal	2

Rebuild With



Ref #	Part Number	Description	Qty
1	48-2450*	Output Bushing	2
--	--	--	--
2	48-2170	End Cap	2
3	66-7561	1 Spring Arm Assy	2
4	25-7740	Knob	2
5	36-4770*	Washer	2
6	39-9680*	Key	2
7	39-9650*	Spring	2
--	--	--	--
8	61-8040*	2 Output Shaft	1
--	--	--	--
9	49-7700*	Keyed Thrust Washer	2
10	32121-98*	Roll Pin	2
11	32151-68*	Grip Ring	2
12	74-1680	3 Wheel Cover Kit	2
13	39-9160*	Pinion	2
14	53-7940*	4 Pivot Arm Assy	2
		Includes:	
14a	52-2450	Ball Bearing	2
14b	47-2890	Bushing	2
14c	302-56	Grease Fitting	2
--	--	--	--

** A major rebuild is one which requires replacement of the output shaft.

* Parts included in rebuild kit part number 13-3449.

† Not illustrated.

1. Directly Interchangeable.
2. Bracketed parts interchangeable as a group only.
3. Interchangeable as an assembly only.
4. Interchangeable as an assembly only.

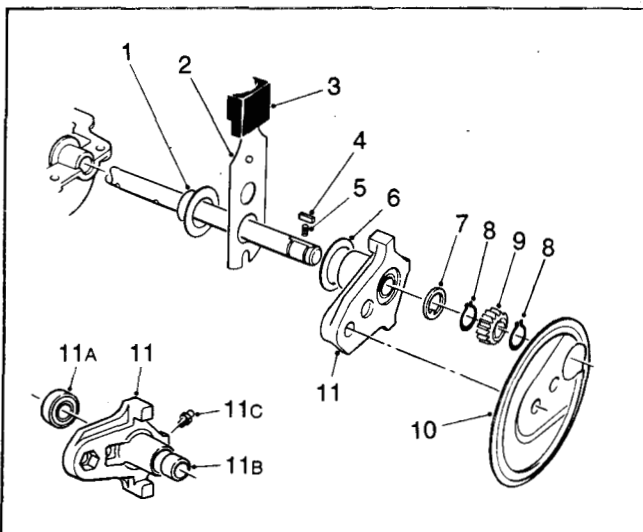
Service Tips:

- a. See Service Tips at the bottom of page 13.

Commercial Suspension System (cont'd)

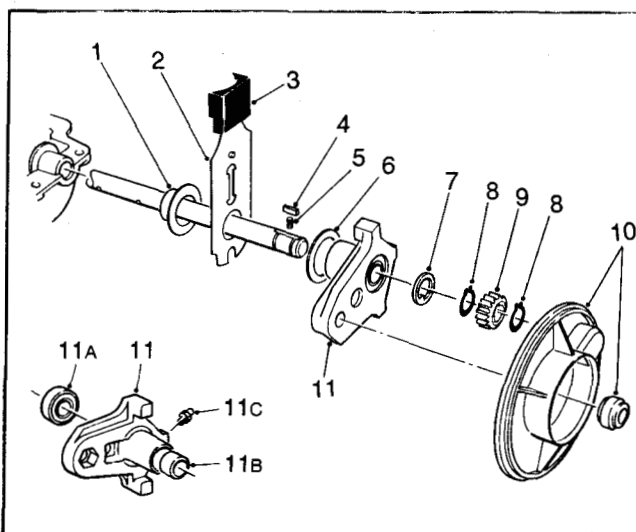
Minor Rebuild** 1986

Original



Ref #	Part Number	Description	Qty
1	48-2170	End Cap	2
2	49-8810	]¹	2
3	25-7740		
4	39-9680	Key	2
5	39-9650	Spring	2
6	36-4770	Washer	2
7	48-2580	Keyed Thrust Washer	2
8	32151-61	Snap Ring	4
9	39-9160	Pinion	2
10	44-0600	]²	2
11	53-7940		
		Includes:	
11a	52-2450	Ball Bearing	2
11b	47-2890	Bushing	2
11c	302-56	Grease Fitting	2

Rebuild With



Ref #	Part Number	Description	Qty
1	48-2170	End Cap	2
2	66-7561	]¹	2
3	25-7740		
4	39-9680	Key	2
5	39-9650	Spring	2
6	36-4770	Washer	2
7	48-2580	Keyed Thrust Washer	2
8	32151-61	Snap Ring	4
9	39-9160	Pinion	2
10	74-1680	]²	2
11	53-7940		
		Includes:	
11a	52-2450	Ball Bearing	2
11b	47-2890	Bushing	2
11c	302-56	Grease Fitting	2

** A minor rebuild is one that *does not* include replacement of the output shaft.

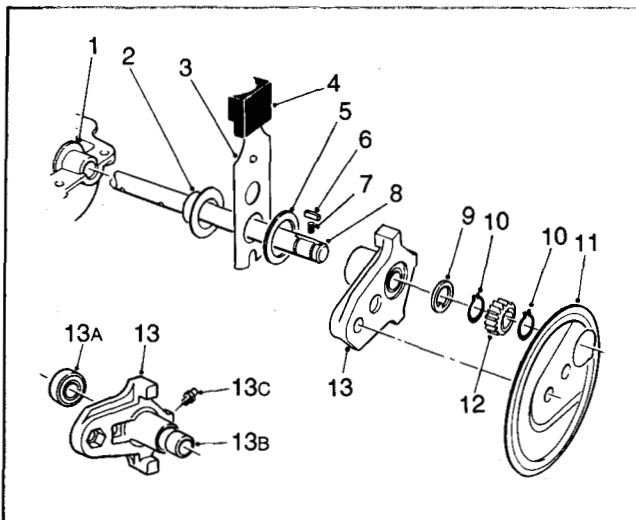
1. Directly interchangeable.
2. Directly interchangeable.

Service Tip:

- a. Spring arm 66-7561 will change height of cut slightly when compared with 49-8810. When retrofitting, update all four at once.
- b. Grease liberally after every 25 hours of use to increase service life.

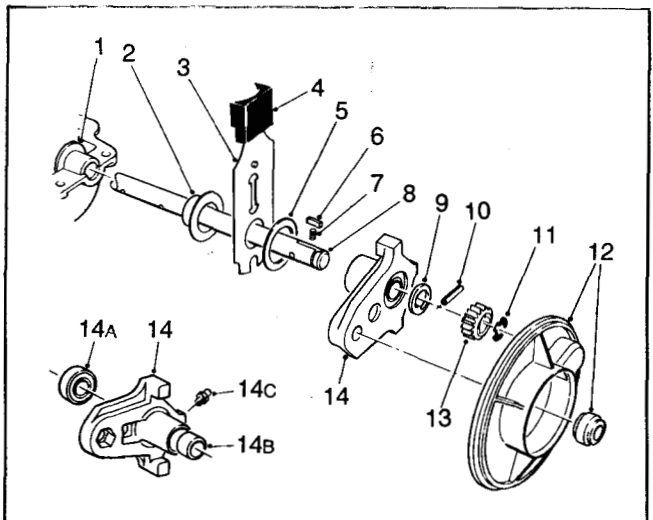
Major Rebuild** 1986

Original



Ref #	Part Number	Description	Qty
1	48-2450	Output Bushing	2
†	24-7922	Shaft Cover	1
2	48-2170	End Cap	2
3	49-8810	]¹ Spring Arm Assy	2
4	25-7740		2
5	36-4770	Washer	2
6	39-9680	Key	2
7	39-9650	Spring	2
8	44-0850	]² Output Shaft	1
9	48-2580		2
10	32151-61	]³ Snap Ring	4
--	--		--
11	44-0600	]³ Wheel Cover	2
12	39-9160		2
13	53-7940	Pivot Arm Assy	2
		Includes:	
13a	52-2450	Ball Bearing	2
13b	47-2890	Bushing	2
13c	302-56	Grease Fitting	2

Rebuild With



Ref #	Part Number	Description	Qty
1	48-2450*	Output Bushing	2
--	--	--	--
2	48-2170	End Cap	2
3	66-7561	]¹ Spring Arm Assy	2
4	25-7740		2
5	36-4770*	Washer	2
6	39-9680*	Key	2
7	39-9650*	Spring	2
8	61-8040*	]² Output Shaft	1
9	49-7700*		2
10	32121-98*	]³ Roll Pin	2
11	32151-68*		2
12	74-1680	]³ Wheel Cover Kit	2
13	39-9160*		2
14	53-7940*	Pivot Arm Assy	2
		Includes:	
14a	52-2450	Ball Bearing	2
14b	47-2890	Bushing	2
14c	302-56	Grease Fitting	2

** A major rebuild is one which requires replacement of the output shaft.

* Parts included in rebuild kit part number 13-3449.

† Not illustrated

1. Directly interchangeable.
2. Bracketed parts interchangeable as a group only.
3. Directly interchangeable.

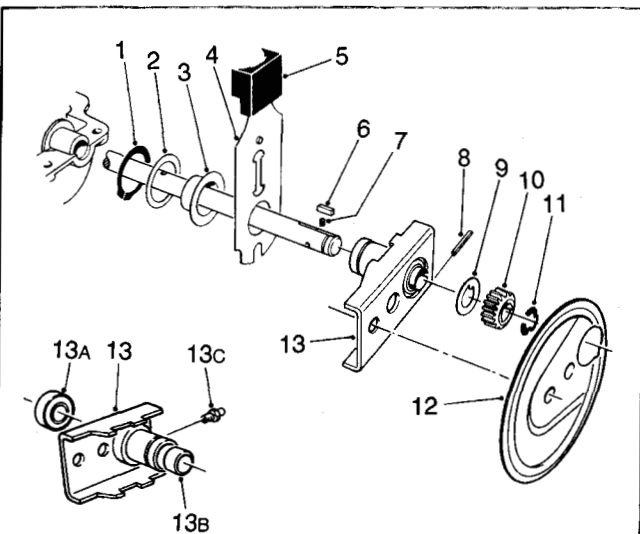
Service Tips:

- a. Do not flare end of roll pin (32121-98) when installing to prevent damage to seal of bearing.
- b. When output shaft is removed, do not reuse spiral pin, P/N 32121-108. Install new pin, P/N 3285-19.
- c. Spring arm 66-7561 will change height of cut slightly when compared with 49-8810. When retrofitting, update all four at once.
- d. Grease liberally after every 25 hours of use to increase service life.

Commercial Suspension System (cont'd)

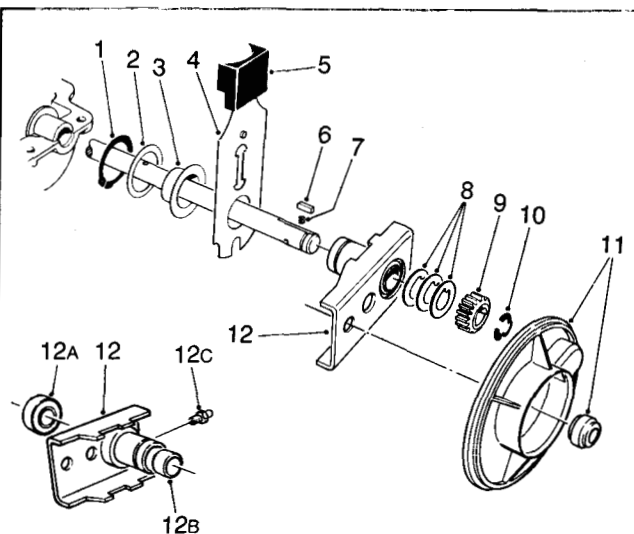
Minor Rebuild** 1987

Original



Ref #	Part Number	Description	Qty
1	32151-36	Retaining Ring	2
2	36-4770	Thrust Washer	2
3	48-2170	End Cap	2
4	61-8081	Spring Arm Assy	2
5	25-7740	Knob Arm	2
6	39-9680	Key	2
7	39-9650	Spring	2
8	32121-98	Roll Pin	2
9	49-7700	Keyed Thrust Washer	2
10	39-9160	Pinion	2
11	32151-68	Grip Ring	2
12	44-0600	Wheel Cover	2
13	61-8200	Pivot Arm Assy	2
Includes:			
13a	61-8050	Ball Bearing	2
13b	47-2890	Bushing	2
13c	302-55	Grease Fitting	2

Rebuild With



Ref #	Part Number	Description	Qty
1	32151-36	Retaining Ring	2
2	36-4770	Thrust Washer	2
3	48-2170	End Cap	2
4	66-7561	Spring Arm Assy	2
5	25-7740	Knob	2
6	39-9680	Key	2
7	39-9650	Spring	2
--	--	--	--
8	49-7700	Keyed Thrust Washer	6
9	39-9160	Pinion	2
10	32151-68	Grip Ring	2
11	74-1680	Wheel Cover Kit	2
12	66-7350	Pivot Arm Assy	2
Includes:			
12a	52-2450	Ball Bearing	2
12b	47-2890	Bushing	2
12c	302-55	Grease Fitting	2

** A minor rebuild is one in which the output shaft does not require replacement.

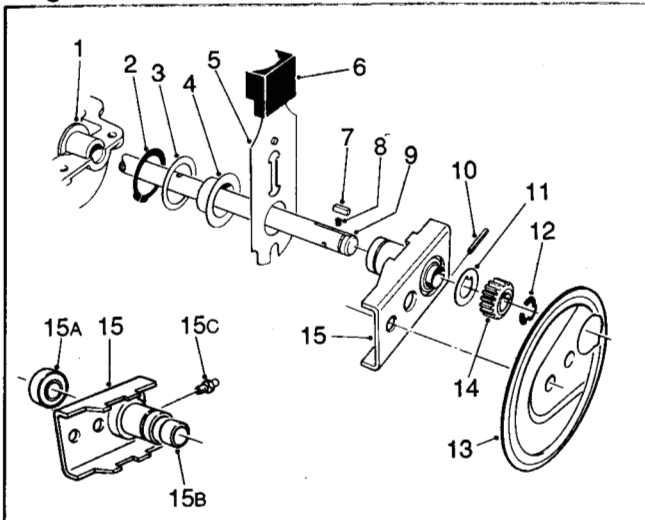
1. Directly interchangeable.
2. Directly interchangeable.
3. Interchangeable as as assembly only.

Service Tip:

- a. Grease liberally after 25 hours of use to increase service life.

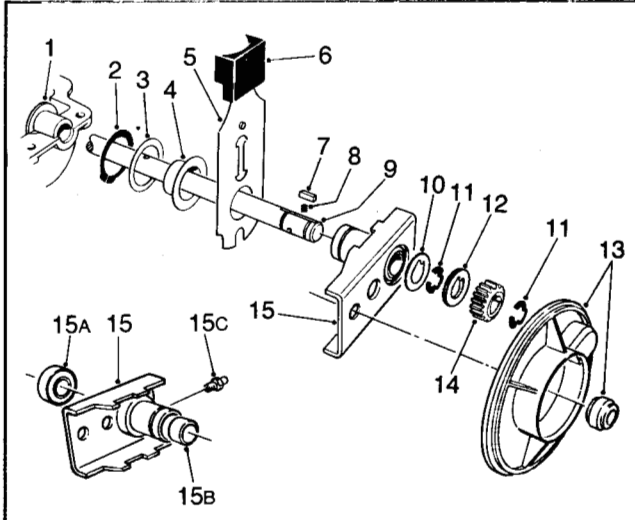
Major Rebuild** 1987

Original



Ref #	Part Number	Description	Qty
1	48-2450	Output Bushing	2
2	32151-36	Retaining Ring	2
3	36-4770	Thrust Washer	2
4	48-2170	End Cap	2
5	61-8081	] ¹ Spring Arm Assy	2
6	25-7740		2
7	39-9680	Key	2
8	39-9650	Spring	2
9	61-8040	] ² Output Shaft	1
10	32121-98		2
11	49-7700	Keyed Thrust Washer	2
12	32151-68	Grip Ring	2
--	--	--	--
13	44-0600	] ³ Wheel Cover	2
14	39-9160		2
15	61-8200	] ⁴ Pivot Arm Assy	2
		Includes:	
15a	61-8050	Ball Bearing	2
15b	47-2890	Bushing	2
15c	302-56	Grease Fitting	2

Rebuild With



Ref #	Part Number	Description	Qty
1	48-2450*	Output Bushing	2
2	32151-36	Retaining Ring	2
3	36-4770	Thrust Washer	2
4	48-2170	End Cap	2
5	66-7561	] ¹ Spring Arm Assy	2
6	25-7740		2
7	39-9680*	Key	2
8	39-9650*	Spring	2
9	66-7330*	] ² Output Shaft	1
--	--		--
10	49-7700*	Keyed Thrust Washer	2
11	32151-68*	Grip Ring	4
12	62-3830*	Special Washer	2
13	74-1680	] ³ Wheel Cover	2
14	39-9160*		2
15	66-7350*	] ⁴ Pivot Arm Assy	2
		Includes:	
15a	52-2450	Ball Bearing	2
15b	47-2890	Bushing	2
15c	302-55	Grease Fitting	2

** A major rebuild is one in which the output shaft requires replacement.

• Parts included in rebuild kit part number 13-3439.

1. Directly interchangeable.
2. Bracketed parts are interchangeable as a group only.
3. Directly interchangeable.
4. Interchangeable as an assembly only.

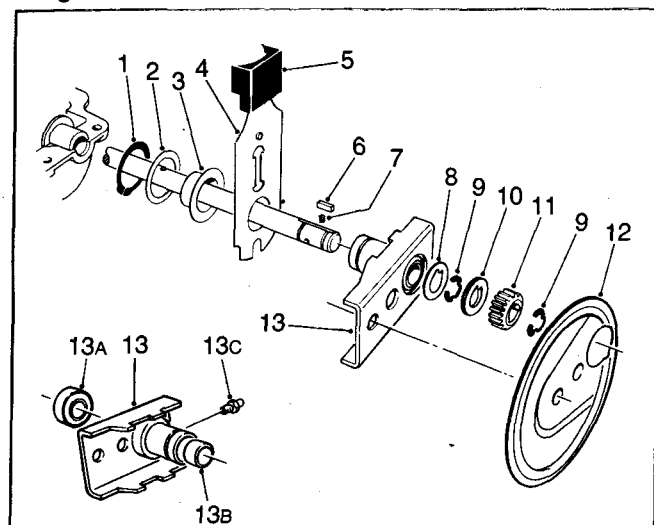
Service Tip:

- a. Grease liberally after every 25 hours of use to increase service life.

Commercial Suspension (cont'd)

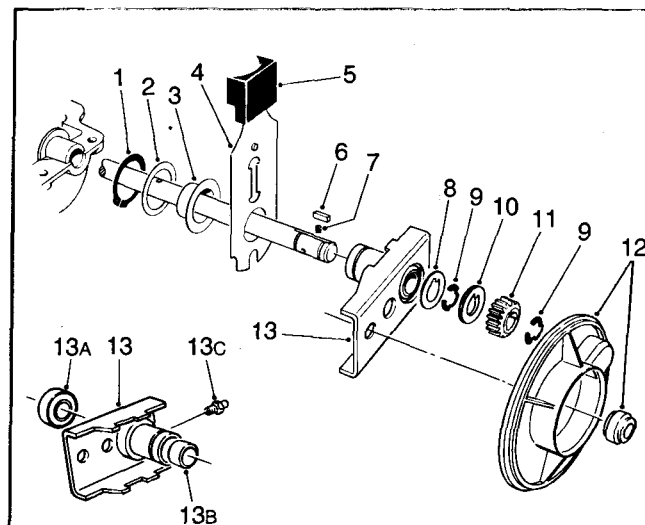
Minor Rebuild** 1988-1989

Original



Ref #	Part Number	Description	Qty
1	32151-36	Retaining Ring	2
2	36-4770	Thrust Washer	2
3	48-2170	End Cap	2
4	66-7561	Spring Arm Assy	2
5	25-7740	Knob	2
6	39-9680	Key	2
7	39-9650	Spring	2
8	49-7700	Keyed Thrust Washer	2
9	32151-68	Grip Ring	4
10	62-3830	Special Washer	2
11	39-9160	Pinion	2
12	44-0600	Wheel Cover	2
13	66-7350	Pivot Arm Assy	2
		Includes:	
13a	52-2450	Ball Bearing	2
13b	47-2890	Bushing	2
13c	302-55	Grease Fitting	2

Rebuild With



Ref#	Part Number	Description	Qty
1	32151-36	Retaining Ring	2
2	36-4770	Thrust Washer	2
3	48-2170	End Cap	2
4	66-7561	Spring Arm Assy	2
5	25-7740	Knob	2
6	39-9680	Key	2
7	39-9650	Spring	2
8	49-7700	Keyed Thrust Washer	2
9	32151-68	Grip Ring	4
10	62-3830	Special Washer	2
11	39-9160	Pinion	2
12	74-1680	Wheel Cover Kit	1
13	66-7350	Pivot Arm Assy	2
		Includes:	
13a	52-2450	Ball Bearing	2
13b	47-2890	Bushing	2
13c	302-55	Grease Fitting	2

** A minor rebuild is one in which the output shaft *does not* require replacement.

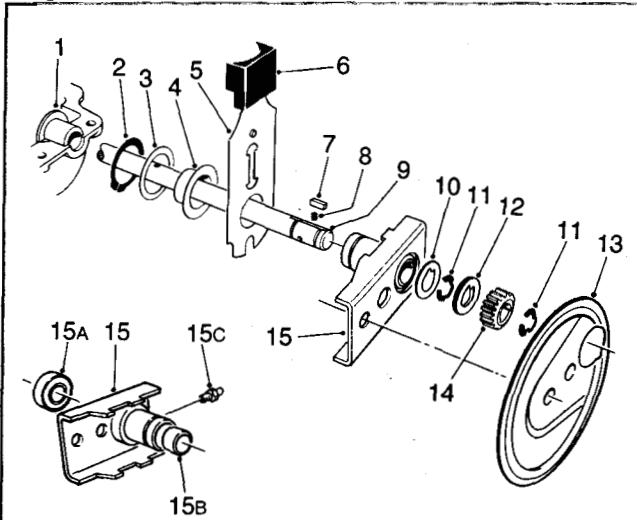
1. Directly interchangeable.

Service Tip:

a. Grease liberally after every 25 hours of use to increase service life.

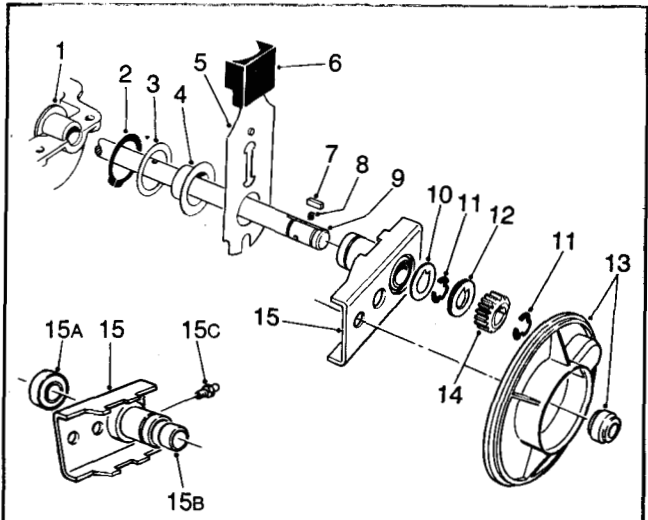
Major Rebuild** 1988-1989

Original



Ref #	Part Number	Description	Qty
1	48-2450	Output Bushing	2
2	32151-36	Retaining Ring	2
3	36-4770	Thrust Washer	2
4	48-2170	End Cap	2
5	66-7561	Spring Arm Assy	2
6	25-7740	Knob	2
7	39-9680	Key	2
8	39-9650	Spring	2
9	66-7330	Output Shaft	1
10	62-3830	Keyed Thrust Washer	2
11	32151-68	Grip Ring	4
12	49-7700	Special Thrust Washer	2
13	44-0600	Wheel Cover	2
14	39-9160	Pinion	2
15	66-7350	Pivot Arm Assy	2
		Includes:	
15a	52-2450	Ball Bearing	2
15b	47-2890	Bushing	2
15c	302-55	Grease Fitting	2

Rebuild With



Ref #	Part Number	Description	Qty
1	48-2450*	Output Bushing	2
2	32151-36	Retaining Ring	2
3	36-4770	Thrust Washer	2
4	48-2170	End Cap	2
5	66-7561	Spring Arm Assy	2
6	25-7740	Knob	2
7	39-9680*	Key	2
8	39-9650*	Spring	2
9	66-7330*	Output Shaft	1
10	62-3830*	Keyed Thrust Washer	2
11	32151-68*	Grip Ring	4
12	49-7700*	Special Thrust Washer	2
13	74-1680	Wheel Cover Kit	1
14	39-9160*	Pinion	2
15	66-7350*	Pivot Arm Assy	2
		Includes:	
15a	52-2450	Ball Bearing	2
15b	47-2890	Bushing	2
15c	302-55	Grease Fitting	2

** A major rebuild is one in which the output shaft requires replacement.

* Parts included in rebuild kit part number 13-3439.

1. Directly interchangeable.

Service Tip:

a. Grease liberally after every 25 hours of use to increase service life.