

# Twin Master Combine

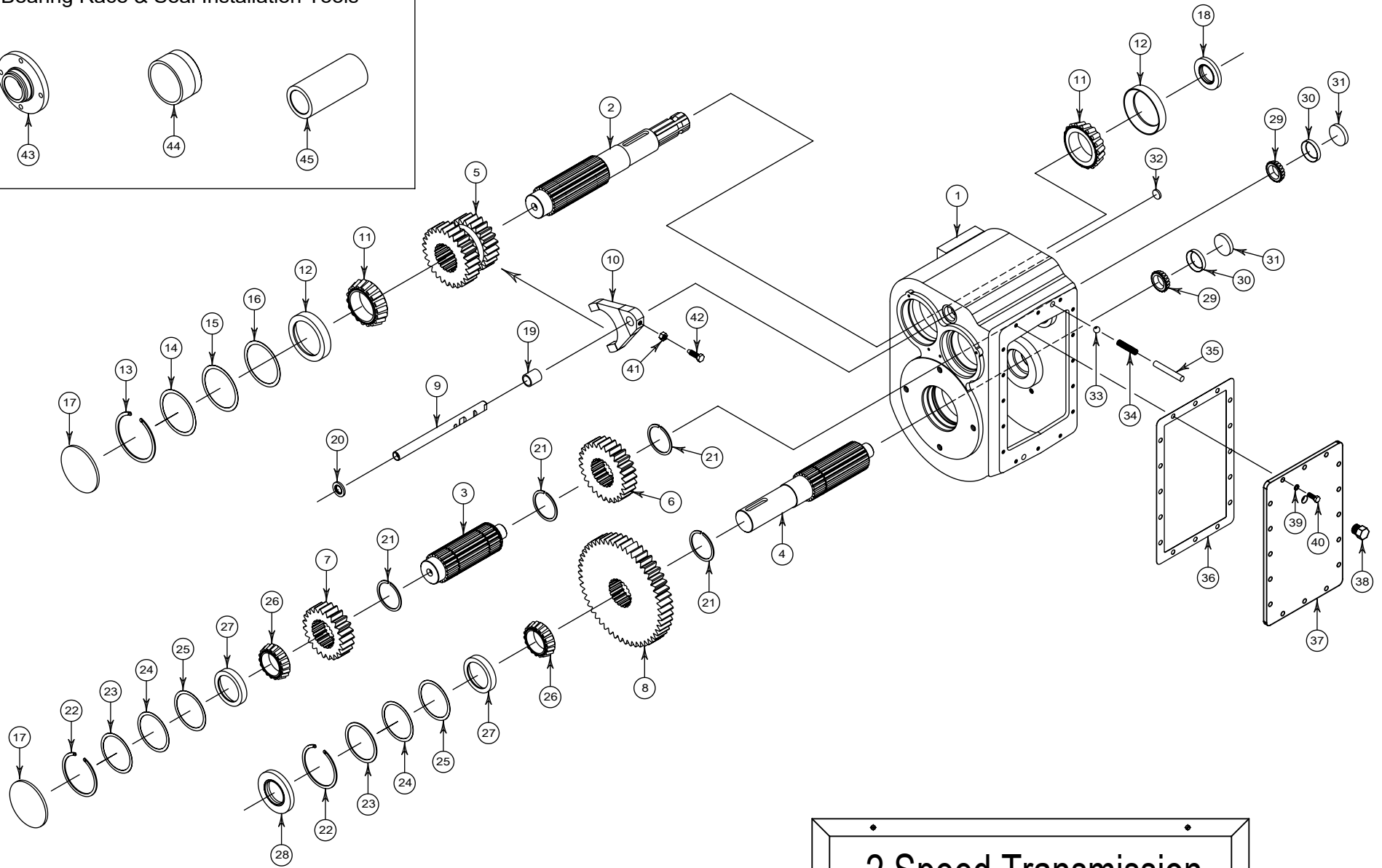
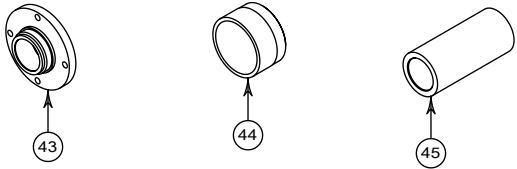
## **Transmission & Gear Boxes**

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Bearing Race & Seal Installation Tools



2 Speed Transmission

## 2 Speed Transmission # 510120-500/350

### Parts List

<u>Item No.</u>	<u>Part No.</u>	<u>Qty</u>	<u>Description</u>
1.	510121	1	Transmission Housing
2.	510117	1	Input Shaft
3.	510116	1	Counter Shaft
4.	510115	1	Output Shaft
5.	510923	1	Input Cluster Gear (26 & 22 Tooth)
6.	510925	1	Lo-Driven Gear (28 Tooth)
7.	510924	1	Hi-Driven Gear (23 Tooth)
8.	510922	1	Output Gear (52 Tooth)
9.	510126	1	Shift Rail
10.	510127	1	Shift Fork
11.	102150	2	Bearing Cone
12.	102151	2	Bearing Cup
13.	118033	1	Snap Ring (internal)
14.	510146	1	Shim, Bearing (.020") (use as needed to achieve proper shaft end play)
15.	510147	1	Shim, Bearing (.025") (use as needed to achieve proper shaft end play)
16.	510148	1	Spacer, Bearing (.250")
17.	116039	2	Plug, 4 5/8" Expansion Type
18.	119209	1	Seal, Input
19.	510138	1	Shift Rail Spacer
20.	119210	1	Seal, Shift Rail
21.	118034	4	Snap Ring (external)
22.	118035	2	Snap Ring (internal)
23.	510130	1	Shim, Bearing (.010") (use as needed to achieve proper shaft end play)
24.	510131	1	Shim, Bearing (.020") (use as needed to achieve proper shaft end play)
25.	510132	1	Shim, Bearing (.015") (use as needed to achieve proper shaft end play)
26.	102152	2	Bearing Cone
27.	102153	2	Bearing Cup
28.	119211	1	Seal, Output
29.	102148	2	Bearing Cone
30.	102149	2	Bearing Cup
31.	116037	2	2 1/4" Cup Plug
32.	116036	1	7/8" Cup Plug
33.	102163	1	1/2" Detent Ball
34.	510137	1	Detent Spring
35.	510136	1	Shift Rail Spring Spacer
36.	510185	1	Inspection Cover Gasket
37.	510135	1	Inspection Cover
38.	116041	1	Breather Plug
39.		16	3/8" Lock Washer
40.		16	3/8" x 1" NC Hex Bolt

## 2 Speed Transmission # 510120-500/350

### Parts List

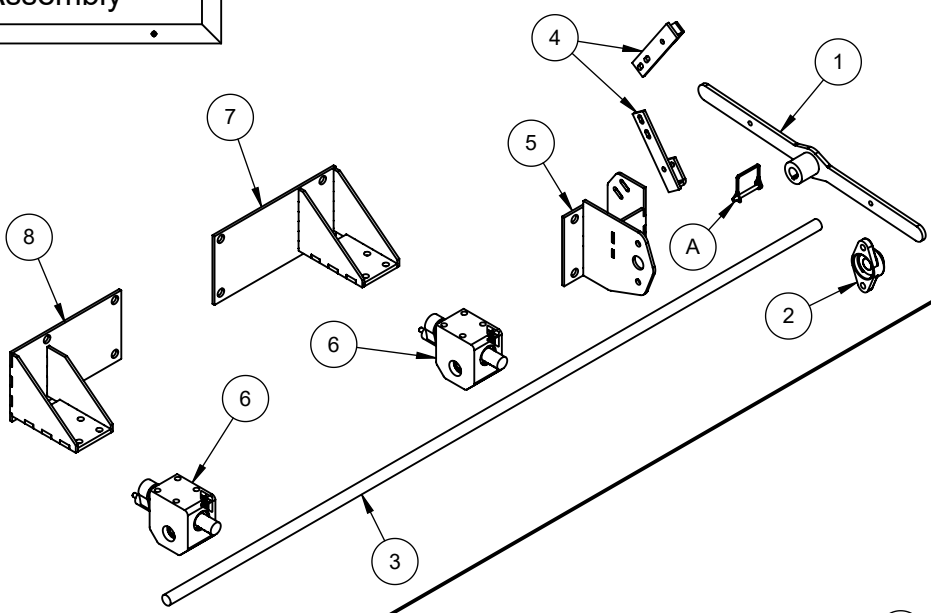
<u>Item No.</u>	<u>Part No.</u>	<u>Qty</u>	<u>Description</u>
41.		3	3/8" NC Hex Nut
42.	510128	1	Detent Bolt
43.	510141	1	Bearing Cone Installation Tool
44.	510142	1	Output Seal Installation Tool
45.	510143	1	Input Seal Installation Tool
Not Shown	510120-500/350		Complete 2 Speed Transmission w/Low gear set
Also Available	510120-500/350-R		Reconditioned Complete 2 Speed Transmission w/Low gear set

## 2 Speed Transmission # 510120-540/390

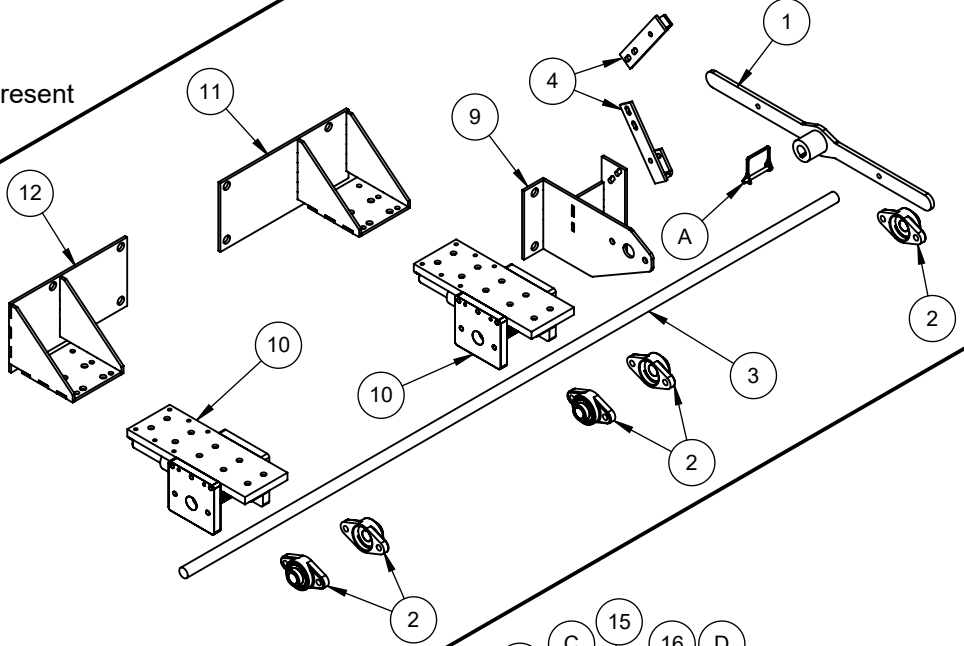
### Parts List

<u>Item No.</u>	<u>Part No.</u>	<u>Qty</u>	<u>Description</u>
5.	510123	1	Input Cluster Gear (27 & 23 Tooth)
6.	510125	1	Lo-Driven Gear (27 Tooth)
7.	510124	1	Hi-Driven Gear (23 Tooth)
8.	510122	1	Output Gear (50 Tooth)
Parts Not Listed Above are The Same as Transmission 510120-500/350			
Not Shown	510120-540/390		Complete 2 Speed Transmission w/High gear set
Also Available	510120-540/390-R		Reconditioned Complete 2 Speed Transmission w/High gear set

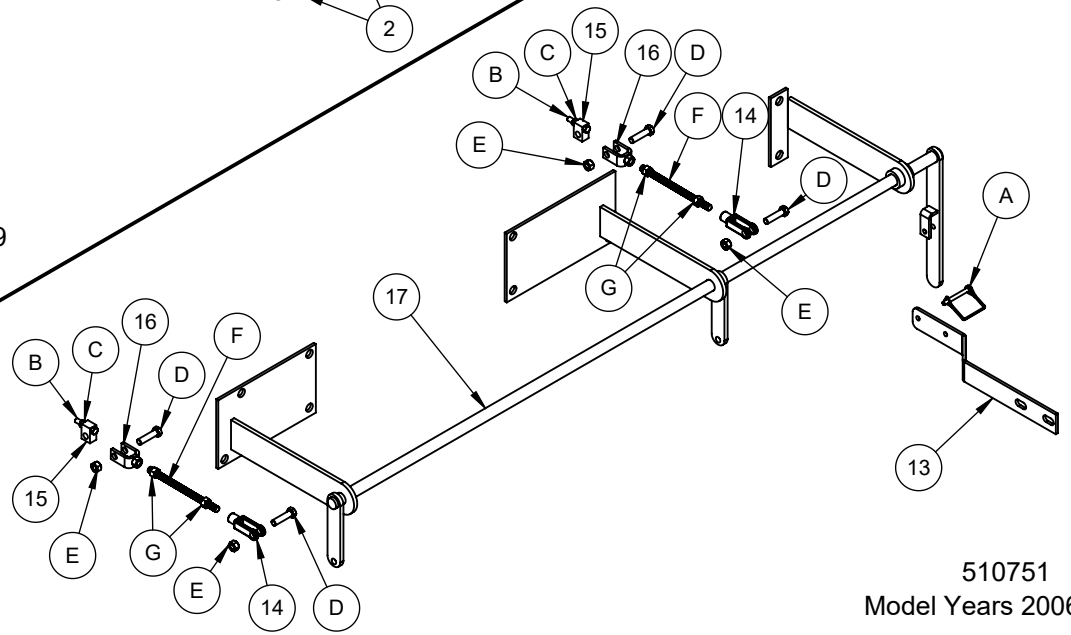
**Gear Shift Lever Assembly**



511421  
Model Years 2019-Present



511372  
Model Years 2017-2019



510751  
Model Years 2006-2016

## Transmission Gear Shift # 511421 (Model Years 2019-Present)

### Parts List

<u>Item No.</u>	<u>Part No.</u>	<u>Qty</u>	<u>Description</u>
1.	511387-A	1	Shifter Handle Assembly
2.	102012	1	Bearing, 1" Flange Single Seal
3.	511379	1	Transmission Shifter Shaft
4.	511386-A	2	Shifter Lock Assembly
5.	511429	1	Outside Bearing Mount Assembly
6.	107045	2	Gear Rack Assembly
7.	511422	1	RH Mounting Assembly
8.	511426	1	LH Mounting Assembly

## Transmission Gear Shift # 511372 (Model Years 2017-2019)

### Parts List

<u>Item No.</u>	<u>Part No.</u>	<u>Qty</u>	<u>Description</u>
1.	511387-A	1	Shifter Handle Assembly
2.	102012	5	Bearing, 1" Flange Single Seal
3.	511379	1	Transmission Shifter Shaft
4.	511386-A	2	Shifter Lock Assembly
9.	511380	1	Outside Bearing Mount Assembly
10.	107040	2	Gear Rack Assembly
11.	511373	1	RH Mounting Assembly
12.	511377	1	LH Mounting Assembly

## Transmission Gear Shift # 510751 (Model Years 2006-2016)

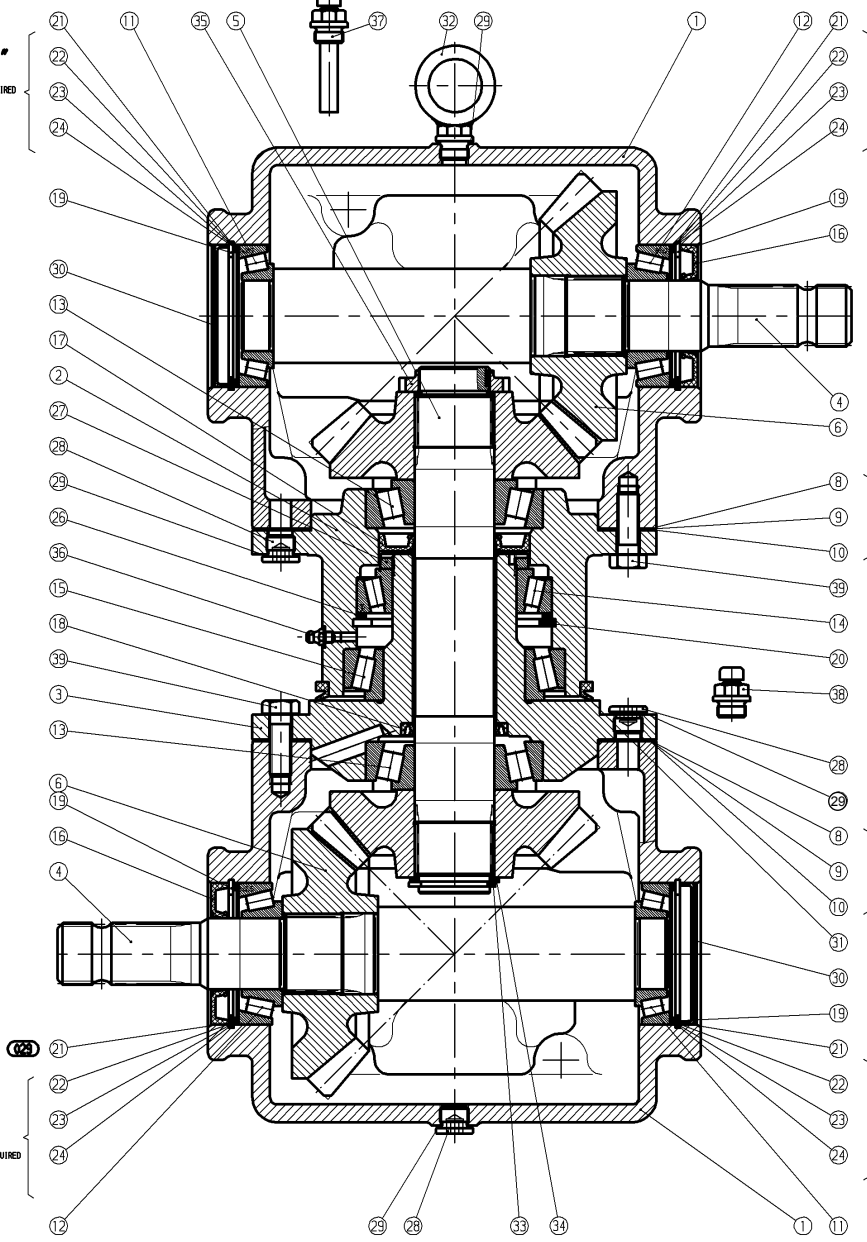
### Parts List

<u>Item No.</u>	<u>Part No.</u>	<u>Qty</u>	<u>Description</u>
13.	510758	1	Shift Lever Lock
14.	103150	2	1/2" NF Clevis
15.	510762	2	Shift Lever Swivel Adaptor
16.	510759	2	Shift Clevis Assembly
17.	510926	1	Transmission Shifter Weld Assembly

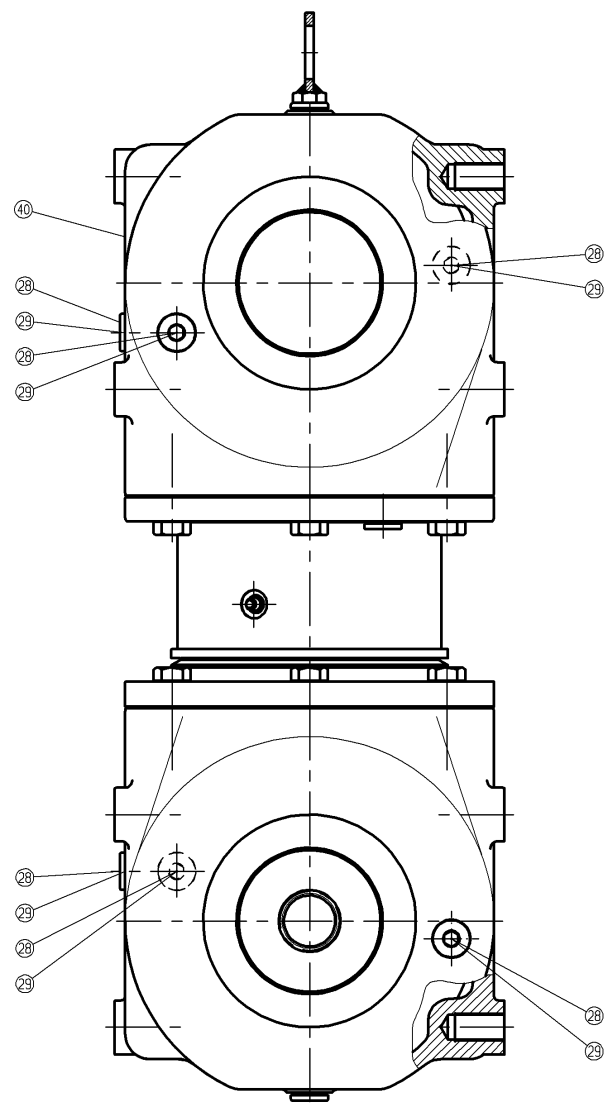
### Hardware List

<u>Item No.</u>	<u>Part No.</u>	<u>Qty</u>	<u>Description</u>
A.	106064	1	5/16" Bridge Pin
B.		2	3/8" x 2 1/4" NC Hex Bolt
C.		2	3/8" NC Hex Nut
D.		4	1/2" x 2" NC Hex Bolt
E.		4	1/2" NC Center Lock Hex Nut
F.		2	1/2" NF Threaded Rod 8" Long
G.		4	1/2" NF Hex Nut

"B"  
SHIMS AS REQUIRED



"A"  
SHIMS AS REQUIRED



"C"  
SHIMS AS REQUIRED

"C"  
SHIMS AS REQUIRED

"B"  
SHIMS AS REQUIRED

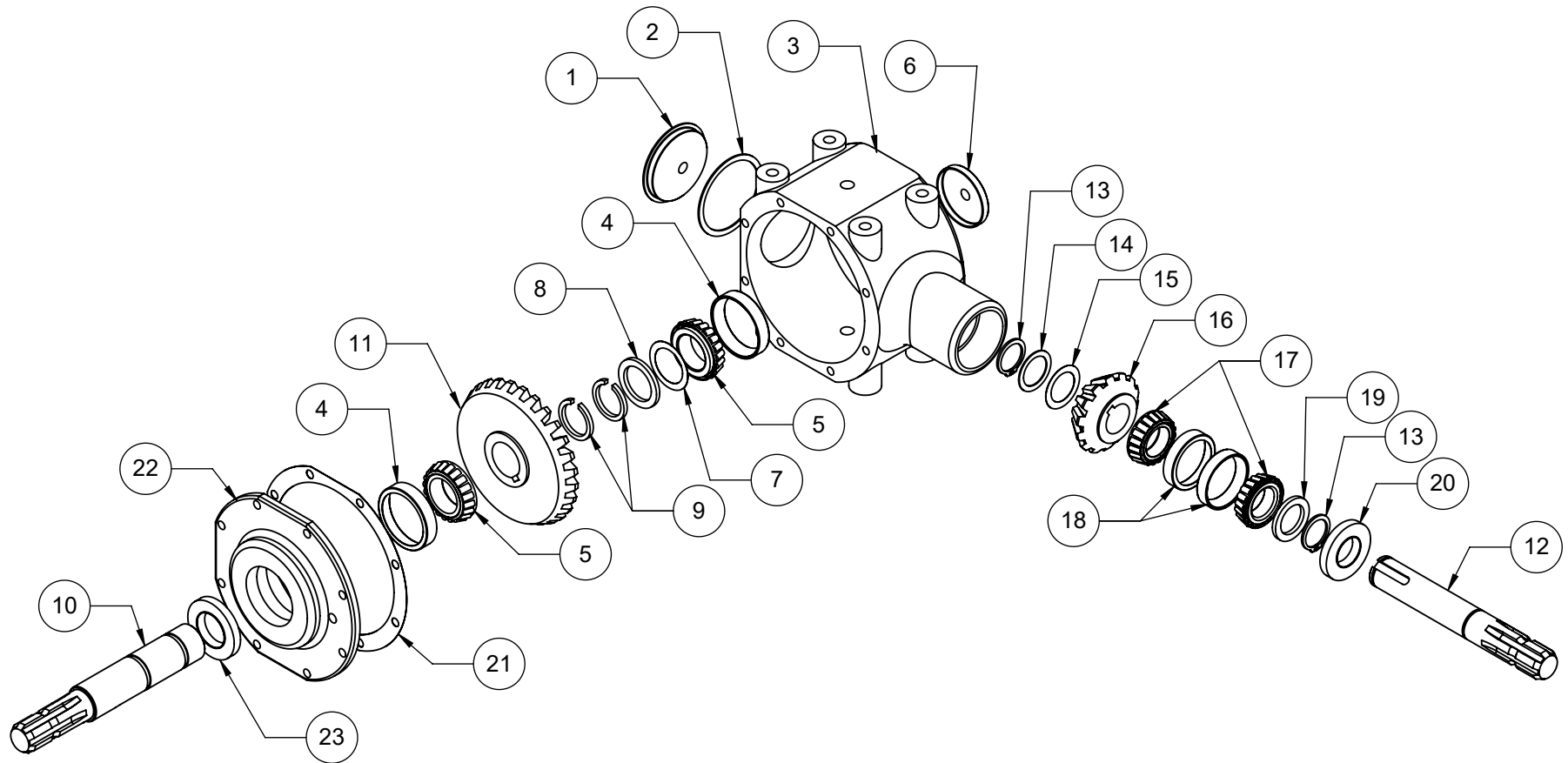
PTO Swivel Gear Box  
107021

## PTO Swivel Gear Box # 107021

### Parts List

<u>Item No.</u>	<u>Part No.</u>	<u>Qty</u>	<u>Description</u>
1.	107031	2	Housing, GT-55
2.	107032	1	Swivel Half, GT-55 SA Outer
3.	107033	1	Swivel Half,GT-55 SA Inner
4.	119328	2	Shaft, Cross
5.	119329	1	Shaft, Immediate
6.	107030	2	Bevel Gear Set
7.			
8.	119322	3	Shim, 0.19mm Thick
9.	119323	3	Shim, 0.25mm Thick
10.	119324	6	Shim, 0.35mm Thick
11.	102230	2	Bearing, Taper Roller
12.	102231	2	Bearing, Taper Roller
13.	102233	2	Bearing, Taper Roller
14.	102229	1	Bearing, Taper Roller
15.	102232	1	Bearing, Taper Roller
16.	119279	2	Seal, 40x80x10
17.	119277	1	Seal, 45x85x10
18.	119278	1	Seal, 45x60x7
19.	118041	4	Snap Ring, 80x2.5 External
20.	118042	1	Snap Ring, 110x4.0 External
21.	119330	4	Shim, 72x80x2.0
22.	119325	4	Shim, 72x80x0.5
23.	119326	4	Shim, 72x80x0.3
24.	119327	6	Shim, 72x80x0.1
25.			
26.	106080	1	Washer, 100x110x3.5
27.	118043	1	Spanner Nut, M70x2 Slotted
28.	106076	9	Plug, M16x1.5
29.	107027	10	Gasket, 16x20 Copper
30.	103183	2	Cap, 80x8 Radial
31.	119312	1	Seal, V-Ring
32.		1	Eye Bolt, M16x1.5
33.	118044	1	Snap Ring, 40x2.5 Internal
34.	106082	1	Washer, 40x50x2.5
35.	118045	1	Spanner Nut, M40x1.5
36.	126006	1	Grease Fitting, M6
37.	106077	1	Breather, M16x1.5
38.	106078	1	Breather, M16x1.5
39.	106081	12	Bolt, Hex Head M12x35
40.		1	Serial Number Plate





PRAIRIE 2 TO 1  
GEAR BOX (LH Rotation)

Part No.

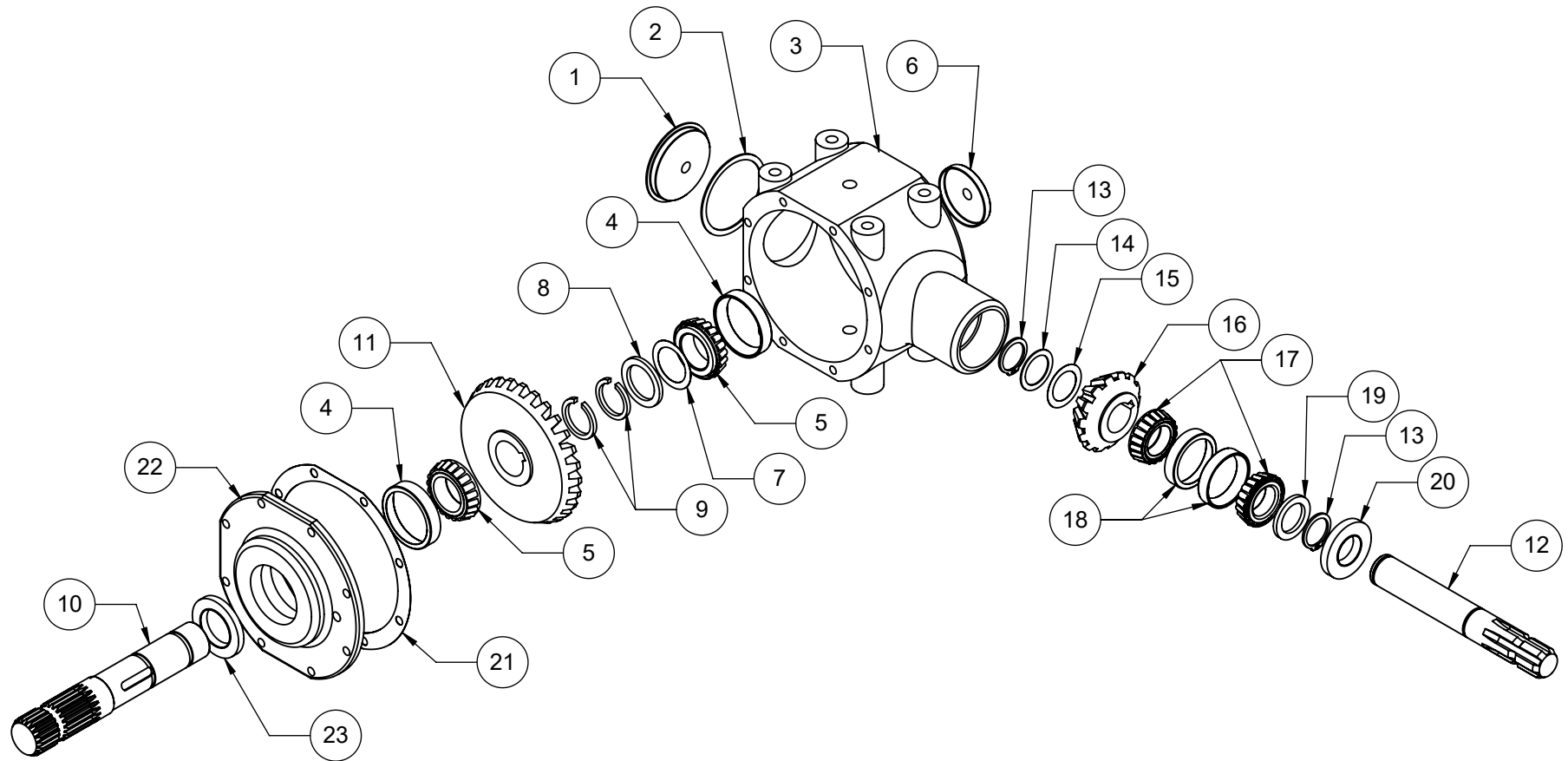
107026  
2006 - 2018

## Transition Auger 2 to 1 GEAR BOX - PART # 107026 (LH Rotation) (2006 – 2018)

### Parts List

<u>Item No.</u>	<u>Part No.</u>	<u>Qty.</u>	<u>Description</u>
1.	116025	1	Cover, Stamping
2.	107037	1	Gasket, Stamping Cover
3.	103191	1	Housing
4.	102227	2	Bearing, Cup
5.	102228	2	Bearing, Cone
6.	116046	1	Expansion Plug 2 3/4"
7.	119317	1	Shim
8.	123033	1	Washer
9.	118038	2	Retaining Ring
10.	119315	1	Shaft
11.	107028	1	Gear, 28T
12.	119316	1	Quill Shaft
13.	118039	2	Retaining Ring
14.	123034	1	Washer
15.	119318	1	Shim
16.	107029	1	Pinion Gear, 14T
17.	102037	2	Bearing, Cone
18.	102136	2	Bearing, Cup
19.	123032	1	Washer
20.	119300	1	Seal
21.	119319	1	Shim
22.	103189	1	Bearing Cover
23.	119301	1	Seal

Note: All PTO gear box assemblies are shipped without oil.



PRAIRIE 2 TO 1  
GEAR BOX (LH Rotation)

Part No.

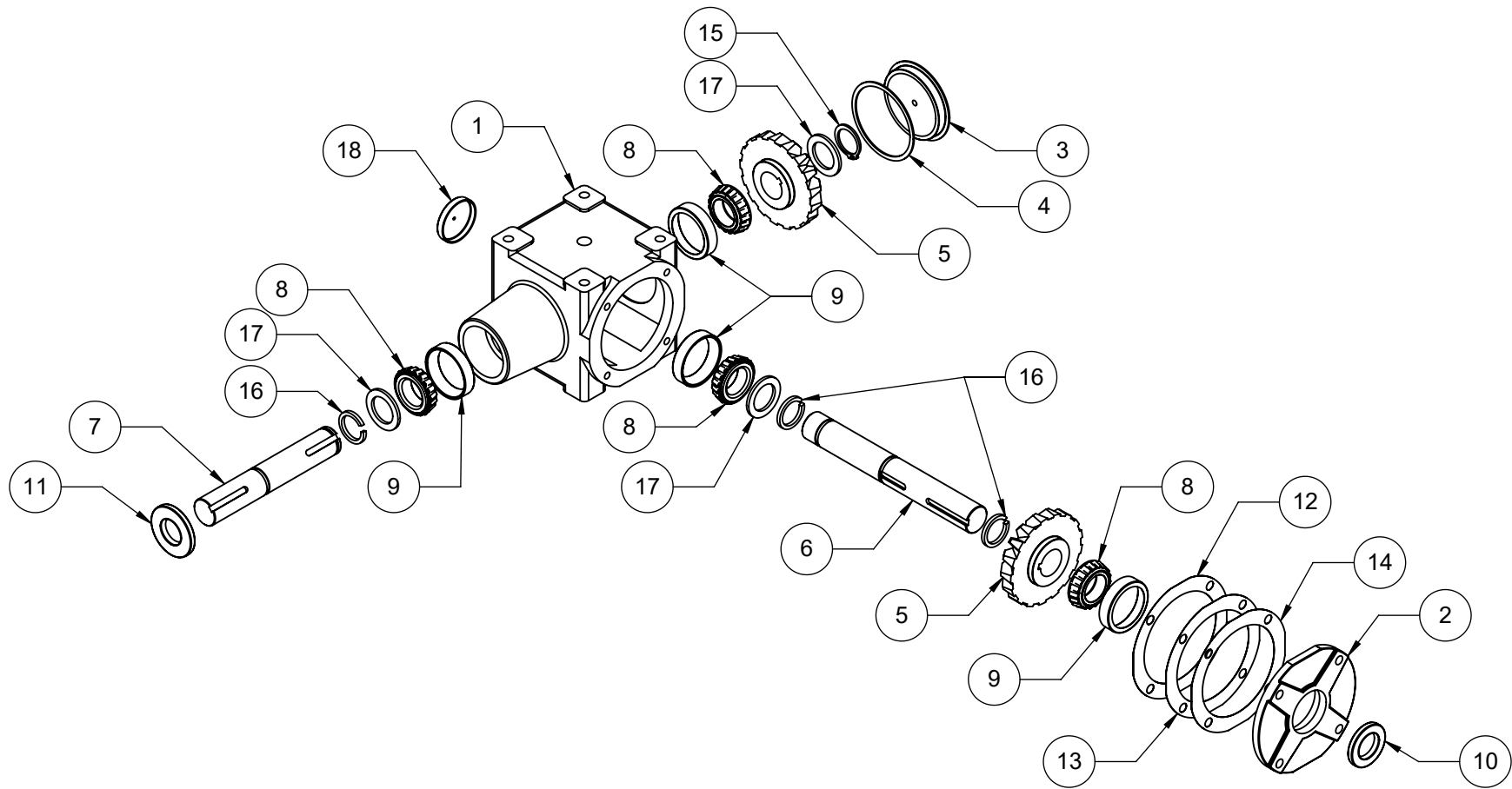
107041  
2019-Present

## Transition Auger 2 to 1 GEAR BOX - PART # 107041 (LH Rotation) (2019 – Present)

### Parts List

<u>Item No.</u>	<u>Part No.</u>	<u>Qty.</u>	<u>Description</u>
1.	116025	1	Cover, Stamping
2.	107037	1	Gasket, Stamping Cover
3.	103191	1	Housing
4.	102227	2	Bearing, Cup
5.	102228	2	Bearing, Cone
6.	116046	1	Expansion Plug 2 3/4"
7.	119317	1	Shim
8.	123033	1	Washer
9.	118038	2	Retaining Ring
10.	119315-20	1	Shaft, Output 1 3/4" 20 Spline
11.	107028	1	Gear, 28T
12.	119316	1	Quill Shaft
13.	118039	2	Retaining Ring
14.	123034	1	Washer
15.	119318	1	Shim
16.	107029	1	Pinion Gear, 14T
17.	102037	2	Bearing, Cone
18.	102136	2	Bearing, Cup
19.	123032	1	Washer
20.	119300	1	Seal
21.	119319	1	Shim
22.	103189	1	Bearing Cover
23.	119301-20	1	Seal, Output Shaft 1 3/4"

Note: All PTO gear box assemblies are shipped without oil.



PRAIRIE 1 TO 1  
GEAR BOX (LH Rotation)

Part No.  
107023

## Straw Chopper 1 to 1 GEAR BOX – LH Rotation – # 107023

### Parts List

<u>Item No.</u>	<u>Part No.</u>	<u>Qty.</u>	<u>Description</u>
1.	108144	1	Case
2.	103190	1	Cover, Side Port
3.	116025	1	Cover, Stamping
4.	107037	1	Gasket, Stamping Cover
5.	107016	2	Gear 17T
6.	119295	1	Cross Shaft
7.	119296	1	Quill Shaft
8.	102085	4	Bearing Cone
9.	102086	4	Bearing Cup
10.	119275	1	Seal
11.	119274	1	Seal
12.	119127		Shim .005
13.	119128		Shim .0075
14.	119129		Shim .010
15.	106031	1	Snap Ring 1 1/4"
16.	118040	3	Snap Ring 1 1/4"
17.	123035	3	Washer 1 1/4"
18.	116026	1	Expansion Plug 2"

Note: All PTO gear box assemblies are shipped without oil.