

AUTO GEAR Model 8 Auxiliary Gearbox Athey Products: Mobil Sweeper

COMPLETE ASSEMBLIES:

1.96/1.00: Athey 10 spline output	P802919	8-000-001
2.42/1.00: Athey 10 spline output	P802919A	8-000-003
2.42/1.00: JKS Boyles		8-000-004
2.42/1.00: Athey 24 spline output	P802919B	8-000-005
2.42/1.00: S&S Fire		8-000-006
2.42/1.00: JA Freeman		8-000-009
1.96/1.00: Waterous		8-000-011

SERVICE KITS

- K1 Overhaul Kit
 - 10 spline
 - 24 spline
- K1-1 Bearing/Oilseal Kit
 - 10 spline
 - 24 spline

NOTE: Tapered bearings and oilseals for ONE (1) gearbox.
- K1-2 Shim Kit
 - 10 spline
 - 24 spline

NOTE: Tapered bearing shims for ONE (1) gearbox.

GROUP A: STEM GEAR AND REAR CASE ASSEMBLY

A1	Yoke Retaining Fasteners		
	10 spline: 5/8-16 x 1-1/2 HHCS	p803871	0-183-006
	24 spline: m16 x 1.50 X 40 HHCS	p810773	0-183-010
	lockwasher		
A2	Yoke Retaining Washer		
	10 spline	p803872	0-047-002
	24 spline	p807118	0-047-006
A3	Yoke		
	10 spline: Mechanics 6C #17688J	P803877	0-031-002
	24 spline: Mechanics 6C	P809330	8-031-003
A4	Outboard Stem Gear Bearing Cone		
	10 spline: Timken #26878	P803825	0-133-005
	24 spline: Timken #26830	P809147	0-133-014
A5	Stem Gear Shim Kit		
	10 spline: 1.50 ID shims	P803827	2-410-002
	24 spline: 1.56 ID shims	P807117	8-410-001
A5-1	Shim: 1.50 ID x 1.88 OD		
	.004	req. 2	NSS
	.005	req. 2	NSS
	.012	req. 1	NSS
	.015	req. 1	NSS

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A5-2	Shim: 1.56 ID x 1.95 OD			
	.004	req. 2	NSS	8-037-001
	.005	req. 2	NSS	8-037-002
	.012	req. 1	NSS	8-037-003
	.015	req. 1	NSS	8-037-004
A6	Inboard Stem Gear Bearing Cone Timken #3780		P803826	0-133-004
A7	Stem gear 10 spline			2-171-001
	<i>NOTE: For service use 2-410-001 Kit, Athey #P803821</i>			
	24 spline			2-171-002
A8	Input Shaft Pilot Rollers all	req. 14	P803822	0-131-002
A9	Input Shaft Pilot Roller Washer all		P803823	2-193-002
A10	Input Shaft Pilot Roller Ring all		P803824	2-139-001
A11	Rear Case Assy			
	10 spline		P803854	8-539-001
	24 spline		P809145	8-539-003
A11-1	Rear Case all		NSS	
A11-2	Inboard Stem Gear Bearing Cup Timken #3720		P803856	0-133-003
A11-3	Outboard Stem Gear Bearing Cup 10 spline: Timken #26823 24 spline: Timken #26830		P803857 P809147	0-133-001 0-133-014
A11-4	Countershaft Rear Bearing Cup Timken #2720		P803852	0-133-006 A11-5
	Breather all			0-072-002
A12	Output Oilseal			
	10 spline: 2.13 X 3.06		P803831	0-044-004
	24 spline: 2.50 X 3.25		p809331	0-044-006
A13	Rear Case Fasteners			
	3/8-16 x 1-3/4 HHCS	req. 10	102-208-1A	179845
	3/8 lockwashers	req. 8	147-10	114606
	concentric dowels	req. 2	P803861	0-043-002
	belleville washers	req. 2	P806862	0-047-003
A14	Drain Plug magnetic		P803863	0-052-001

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B1	Input Coupling (Assembly)				
	10 spline		P804644	8-089-003	
	35 spline		P809333	9-589-002	
B1-1	Input Coupling				
	10 spline		P803832	8-089-001	
B1-2	Input Hub				
	10 spline				
B1-3	Input Hub Snapping				
	10 spline				
B2	Input Bearing/Shaft Snapping				
	.118	as req.	P803830	2-139-004	
	.121	as req.		2-139-005	
	.124	as req.		2-139-006	
	.128	as req.		2-139-007	
B5	Input Shaft Thrust Washer				
	10 spline		P803835	2-193-003	
	35 spline		P810758	8-193-001	
B6	Low Range Gear				
	L25T: 1.96 low (assembled bearing)		P803836	2-080-001	
	L22T: 2.42 low (unit cage)		P810759	8-080-004	
B7	Low Range Bearing				
	assembled bearing	req. 56	P803837	0-131-003	
	unit cage	req. 1	P810760	0-132-005	
	unit cage	req. 2		0-132-013	
B8	Low Range Bearing Spacer				
	assembled bearing	req. 1	P803838	2-053-001	
	assembled bearing	req. 2	P803839	2-053-002	
	unit cage	req. 1		8-053-005	
B9	Input Shaft				
	10 spline		P803840	2-189-002	
	35 spline		P811204	8-189-002	
B10	Input Adapter				
	all		P803834	8-172-001	
B11	Input Adapter/Case Fasteners				
	3/8-16 x 1-1/4 HHCS	req. 5		179841	
	3/8 toothed l'washer	req. 5	147-10	114606	

GROUP C: COUNTERSHAFTS AND CASE

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C1	Speedometer Rotor Fasteners pin retained: rollpin ball retained: snapping ball retained: ¼" steel ball	P803849 P809143 P809142	0-043-004 0-139-007 147485
C2	Speedometer Rotor S40T: pin retained S40T: ball retained S40T: Press Fit	P803848 P809141 P812693	0-110-001 0-110-002 0-110-003
C3	Countershaft Rear Bearing Cone Timken #2793 Timken #2788	P803846 P807286	0-133-007 0-133-009
C4	Countershaft Cluster Gear (Assembly) R35-25T: 1.96 low R38-25T: 2.42 low	P807285	8-077-001 8-077-002
C4-1	CounterSHAFT Drive Gear R35T: 1.96 low R38T: 2.42 low	P803843 P804646	2-070-002 2-070-005
C4-2	Countershaft Low Gear R25T	P803845	2-070-003
C4-3	Countershaft Spacer all	P803844	8-053-001
C4-4	Countershaft pin retained rotor	P803842	8-067-001
C5	Countershaft Shim Kit 1.38 ID shims 1.50 ID shims	P803827	2-410-002 8-410-006
C5-1	Shim: 1.50 ID x 1.88 OD .004 .005 .012 .015	req. 2 req. 2 req. 1 req. 1	NSS NSS NSS NSS
C5-2	Shim: 1.50 ID x 2.12 OD .004 .005 .012 .015	req. 2 req. 2 req. 1 req. 1	2-037-005 2-037-006 2-037-007 2-037-008
C6	Countershaft Front Bearing Cone Timken #2793 Timken #2788	P803846 P807286	0-133-007 0-133-009
C7	Case Assy all	P803850	8-565-001
C7-2	Input Bearing all	P803828	0-130-003
C7-3	Input Bearing/Case Snapping all	P803829	2-139-003
C7-4	Countershaft Front Bearing Cup all	P803852	0-133-006
C7-5	Shift Rail Oilseal		

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C7-6	all Fill Plug	P803853	0-044-005
	all	NSS	444592

GROUP D: INTERNAL SHIFT LINKAGE

D1	Shift Fork iron aluminum	P803864	2-096-001 28-096-001
D2	Shift Rail all	P803865	2-100-003
D3	Shift Fork/Rail Rollpin all	P803866	0-043-003
D4	Detent Ball all	P803867	147487
D5	Detent Spring all all all	P803868 P812699	2-156-001 2-156-002 2-156-003
D6	Detent Plug all	P803860	0-113-001

GROUP E: EXTERNAL ELECTROMECHANICALS

E1	Speedometer Sensor Assy Wabash Magnetics (screw posts) Kelsey-Hayes (push connector)	P803876 P812242	0-640-002 0-640-003
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