

# 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 LOCKWASHER	P810773	0-183-010
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
			2-037-001
			2-037-002
			2-037-003
			2-037-004

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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		P803857	0-133-001
	24 SPLINE: TIMKEN #26830		P809147	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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## GROUP B: INPUT SHAFT AND ADAPTER

<b>B1</b>	<b>INPUT COUPLING (ASSEMBLY)</b>		
	10 SPLINE	P804644	8-089-003
	35 SPLINE	P809333	9-589-002
<b>B1-1</b>	<b>INPUT COUPLING</b>		
	10 SPLINE	P803832	8-089-001
<b>B1-2</b>	<b>INPUT HUB</b>		
	10 SPLINE		
<b>B1-3</b>	<b>INPUT HUB SNAPRING</b>		
	10 SPLINE		
<b>B2</b>	<b>INPUT BEARING/SHAFT SNAPRING</b>		
	.118	AS REQ.	P803830
	.121	AS REQ.	2-139-004
	.124	AS REQ.	2-139-005
	.128	AS REQ.	2-139-006
<b>B5</b>	<b>INPUT SHAFT THRUST WASHER</b>		
	10 SPLINE	P803835	2-193-003
	35 SPLINE	P810758	8-193-001
<b>B6</b>	<b>LOW RANGE GEAR</b>		
	L25T: 1.96 LOW (ASSEMBLED BEARING)	P803836	2-080-001
	L22T: 2.42 LOW (UNIT CAGE)	P810759	8-080-004
<b>B7</b>	<b>LOW RANGE BEARING</b>		
	ASSEMBLED BEARING	REQ. 56	P803837
	UNIT CAGE	REQ. 1	P810760
	UNIT CAGE	REQ. 2	0-131-003
			0-132-005
			0-132-006
<b>B8</b>	<b>LOW RANGE BEARING SPACER</b>		
	ASSEMBLED BEARING	REQ. 1	P803838
	ASSEMBLED BEARING	REQ. 2	P803839
	UNIT CAGE	REQ. 1	2-053-001
			2-053-002
			8-053-005
<b>B9</b>	<b>INPUT SHAFT</b>		
	10 SPLINE	P803840	2-189-002
	35 SPLINE	P811204	8-189-002
<b>B10</b>	<b>INPUT ADAPTER</b>		
	ALL	P803834	8-172-001
<b>B11</b>	<b>INPUT ADAPTER/CASE FASTENERS</b>		
	3/8-16 X 1-1/4 HHCS	REQ. 5	179841
	3/8 TOOTHED L'WASHER	REQ. 5	147-10
			114606

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## GROUP C: COUNTERSHAFTS AND CASE

<b>C1</b>	<b>SPEEDOMETER ROTOR FASTENERS</b>		
	PIN RETAINED: ROLLPIN	P803849	0-043-004
	BALL RETAINED: SNAPRING	P809143	0-139-007
	BALL RETAINED: 1/4" STEEL BALL	P809142	147485
<b>C2</b>	<b>SPEEDOMETER ROTOR</b>		
	S40T: PIN RETAINED	P803848	0-110-001
	S40T: BALL RETAINED	P809141	0-110-002
	S40T: PRESS FIT	P812693	0-110-003
<b>C3</b>	<b>COUNTERSHAFT REAR BEARING CONE</b>		
	TIMKEN #2793	P803846	0-133-007
	TIMKEN #2788	P807286	0-133-009
<b>C4</b>	<b>COUNTERSHAFT CLUSTER GEAR (ASSEMBLY)</b>		
	R35-25T: 1.96 LOW		8-077-001
	R38-25T: 2.42 LOW	P807285	8-077-002
<b>C4-1</b>	<b>COUNTERSHAFT DRIVE GEAR</b>		
	R35T: 1.96 LOW	P803843	2-070-002
	R38T: 2.42 LOW	P804646	2-070-005
<b>C4-2</b>	<b>COUNTERSHAFT LOW GEAR</b>		
	R25T	P803845	2-070-003
<b>C4-3</b>	<b>COUNTERSHAFT SPACER</b>		
	ALL	P803844	8-053-001
<b>C4-4</b>	<b>COUNTERSHAFT</b>		
	PIN RETAINED ROTOR	P803842	8-067-001
<b>C5</b>	<b>COUNTERSHAFT SHIM KIT</b>		
	1.38 ID SHIMS	P803827	2-410-002
	1.50 ID SHIMS		8-410-006
<b>C5-1</b>	<b>SHIM: 1.50 ID X 1.88 OD</b>		
	.004	REQ. 2	NSS
	.005	REQ. 2	NSS
	.012	REQ. 1	NSS
	.015	REQ. 1	NSS
<b>C5-2</b>	<b>SHIM: 1.50 ID X 2.12 OD</b>		
	.004	REQ. 2	8-037-006
	.005	REQ. 2	8-037-007
	.012	REQ. 1	8-037-008
	.015	REQ. 1	8-037-009
<b>C6</b>	<b>COUNTERSHAFT FRONT BEARING CONE</b>		
	TIMKEN #2793	P803846	0-133-007
	TIMKEN #2788	P807286	0-133-009
<b>C7</b>	<b>CASE ASSY</b>		
	ALL	P803850	8-565-001
<b>C7-2</b>	<b>INPUT BEARING</b>		
	ALL	P803828	0-130-003
<b>C7-3</b>	<b>INPUT BEARING/CASE SNAPRING</b>		
	ALL	P803829	2-139-003

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<b>C7-4</b>	<b>COUNTERSHAFT FRONT BEARING CUP</b>		
	ALL	<b>P803852</b>	<b>0-133-006</b>
<b>C7-5</b>	<b>SHIFT RAIL OILSEAL</b>		
	ALL	<b>P803853</b>	<b>0-044-005</b>
<b>C7-6</b>	<b>FILL PLUG</b>		
	ALL	<b>NSS</b>	<b>444592</b>

**GROUP D: INTERNAL SHIFT LINKAGE**

<b>D1</b>	<b>SHIFT FORK</b>		
	IRON		<b>2-096-001</b>
	ALUMINUM	<b>P803864</b>	<b>28-096-001</b>
<b>D2</b>	<b>SHIFT RAIL</b>		
	ALL	<b>P803865</b>	<b>2-100-003</b>
<b>D3</b>	<b>SHIFT FORK/RAIL ROLLPIN</b>		
	ALL	<b>P803866</b>	<b>0-043-003</b>
<b>D4</b>	<b>DETENT BALL</b>		
	ALL	<b>P803867</b>	<b>147487</b>
<b>D5</b>	<b>DETENT SPRING</b>		
	ALL	<b>P803868</b>	<b>2-156-001</b>
	ALL		<b>2-156-002</b>
	ALL	<b>P812699</b>	<b>2-156-003</b>
<b>D6</b>	<b>DETENT PLUG</b>		
	ALL	<b>P803860</b>	<b>0-113-001</b>

**GROUP E: EXTERNAL ELECTROMECHANICALS**

<b>E1</b>	<b>SPEEDOMETER SENSOR ASSY</b>		
	WABASH MAGNETICS (SCREW POSTS)	<b>P803876</b>	<b>0-640-002</b>
	KELSEY-HAYES (PUSH CONNECTOR)	<b>P812242</b>	<b>0-640-003</b>