

# **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**

<b>A1</b>	<b>YOKE RETAINING FASTENERS</b>		
	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		
<b>A2</b>	<b>YOKE RETAINING WASHER</b>		
	10 SPLINE	P803872	0-047-002
	24 SPLINE	P807118	0-047-006
<b>A3</b>	<b>YOKE</b>		
	10 SPLINE: MECHANICS 6C #17688J	P803877	0-031-002
	24 SPLINE: MECHANICS 6C	P809330	8-031-003
<b>A4</b>	<b>OUTBOARD STEM GEAR BEARING CONE</b>		
	10 SPLINE: TIMKEN #26878	P803825	0-133-005
	24 SPLINE: TIMKEN #26830	P809147	0-133-014
<b>A5</b>	<b>STEM GEAR SHIM KIT</b>		
	10 SPLINE: 1.50 ID SHIMS	P803827	2-410-002
	24 SPLINE: 1.56 ID SHIMS	P807117	8-410-001
<b>A5-1</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

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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	2-139-004
	.121	AS REQ.		2-139-005
	.124	AS REQ.		2-139-006
	.128	AS REQ.		2-139-007
<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	0-131-003
	UNIT CAGE	REQ. 1	P810760	0-132-005
	UNIT CAGE	REQ. 2		0-132-006
<b>B8</b>	<b>LOW RANGE BEARING SPACER</b>			
	ASSEMBLED BEARING	REQ. 1	P803838	2-053-001
	ASSEMBLED BEARING	REQ. 2	P803839	2-053-002
	UNIT CAGE	REQ. 1		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

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

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C7-4	COUNTERSHAFT FRONT BEARING CUP ALL	P803852	0-133-006
C7-5	SHIFT RAIL OILSEAL ALL	P803853	0-044-005
C7-6	FILL PLUG 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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