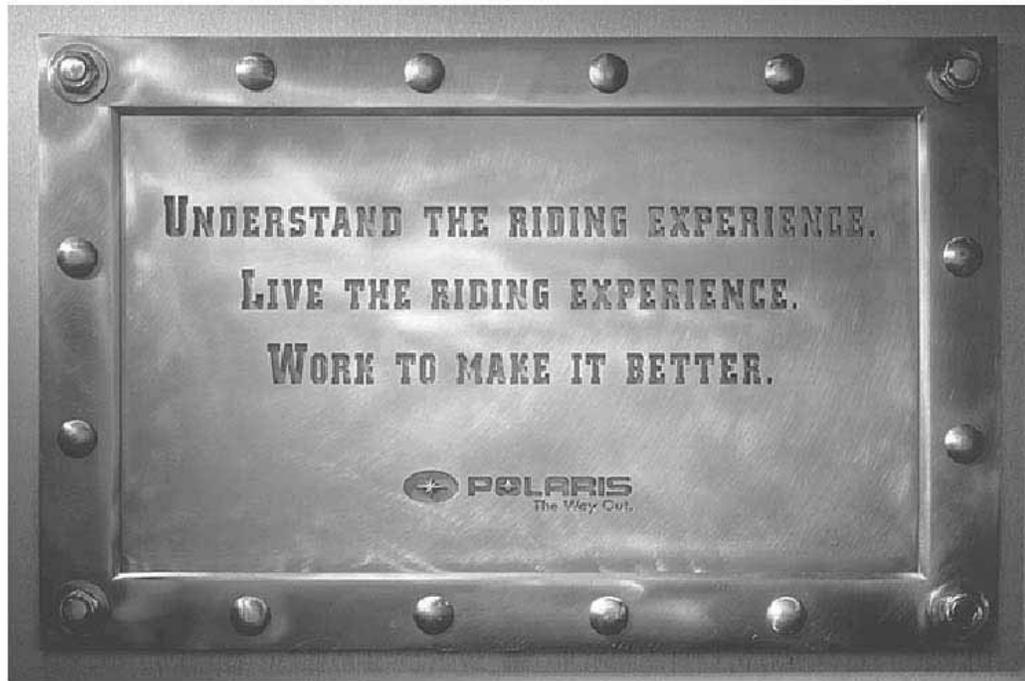




POLARIS
The Way Out.®



2007 SPORTSMAN 700/800/800 X2 EFI **SERVICE MANUAL**

FOREWORD

This service manual is designed primarily for use by certified Polaris Master Service Dealer technicians in a properly equipped shop and should be kept available for reference. All references to left and right side of the vehicle are from the operator's perspective when seated in a normal riding position.

Some procedures outlined in this manual require a sound knowledge of mechanical theory, tool use, and shop procedures in order to perform the work safely and correctly. Technicians should read the text and be familiar with service procedures before starting the work. Certain procedures require the use of special tools. Use only the proper tools as specified.

Comments or suggestions about this manual may be directed to: Service Publications Dept. @ Polaris Sales Inc. 2100 Hwy 55 Medina Minnesota 55340.

2007 Sportsman 700/800/ 800 X2 EFI Service Manual PN 9920378

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UNDERSTANDING MANUAL SAFETY LABELS AND DIRECTIONS

Throughout this manual, important information is highlighted by the following symbols:



SAFETY ALERT WARNING indicates a potential hazard that may result in severe injury or death to the operator, bystander or person(s) inspecting or servicing the vehicle.



SAFETY ALERT CAUTION indicates a potential hazard that may result in minor personal injury or damage to the vehicle.



CAUTION indicates special precautions that must be taken to avoid vehicle damage or property damage.

NOTE:

NOTE provides key information by clarifying instructions.

IMPORTANT:

IMPORTANT provides key reminders during disassembly, assembly and inspection of components.

TRADEMARKS

POLARIS ACKNOWLEDGES THE FOLLOWING PRODUCTS MENTIONED IN THIS MANUAL:

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Nyogel, Trademark of Wm. F. Nye Co.

Fluke, Registered Trademark of John Fluke Mfg. Co.

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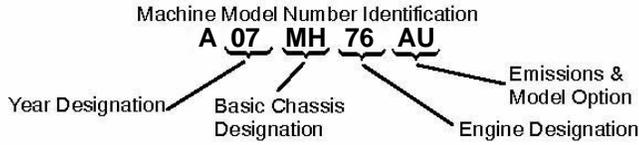
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GENERAL INFORMATION

MODEL INFORMATION

Model Number

The machine model number must be used with any correspondence regarding warranty or service.



Engine Designation Numbers

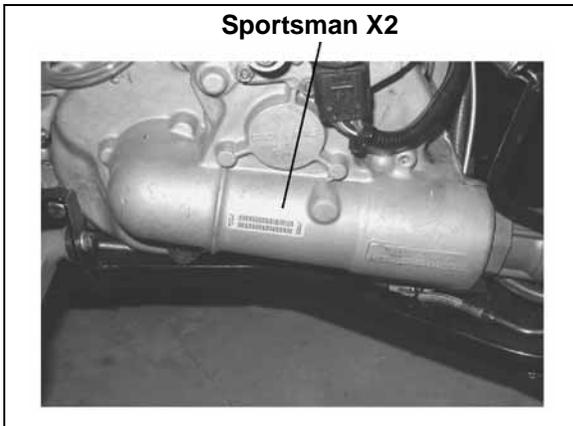
EH068OLE - Twin Cylinder, Liquid Cooled, 4 Stroke, Electric Start

EH076OLE - Twin Cylinder, Liquid Cooled, 4 Stroke, Electric Start

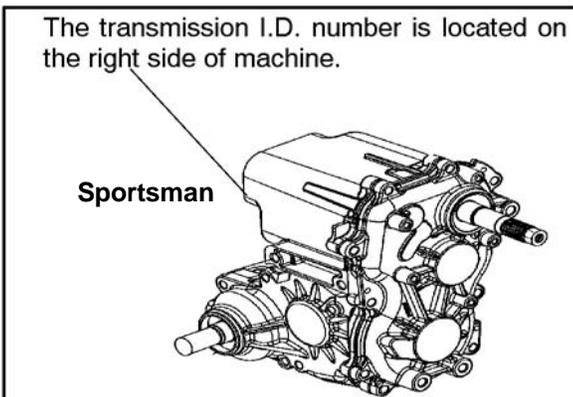
VIN Identification

World Mfg. ID			Vehicle Description						Vehicle Identifier							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
4	X	A	M	H	6	8	A	*	7	P	0	0	0	0	0	0
Body Style			Powertrain	Engine	Emissions	Check Digit	Model Year	Plant No.	Individual Serial No.							

TRANSMISSION I.D. LOCATION



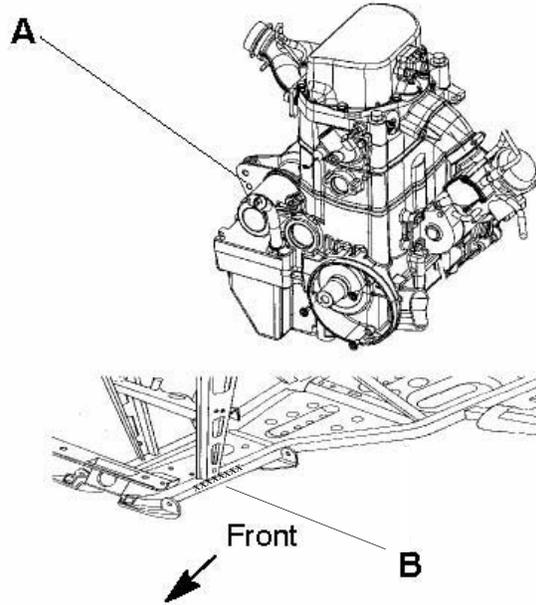
The transmission I.D. number is located on the right side of machine.



Engine and Machine Serial Numbers

Be sure to refer to the engine model number and serial number whenever corresponding about an engine.

This information can be found on the sticker applied to the top side of the crankcase (A). An additional number is stamped on the side of the crankcase beneath the cylinder coolant elbow.



The machine model number and serial number are important for vehicle identification. The machine serial number is stamped on the lower left side of the frame tube (B).

PUBLICATIONS

Table 1-1: Publications

Year	Model	Model No.	Owner's Manual PN	Parts Manual PN
2007	Sportsman 700 EFI	A07MH68A A07MN68A	9920374	9920375
2007	Sportsman 800 EFI	A07MH76A A07MN76A	9920374	9920379
2007	Sportsman X2 800 EFI	A07TH76A A07TN76A	9920632	9920903
2007	Sportsman 800 EFI International	A07MH76F	9920374	9920379

PAINT CODES

Table 1-2: Paint Codes

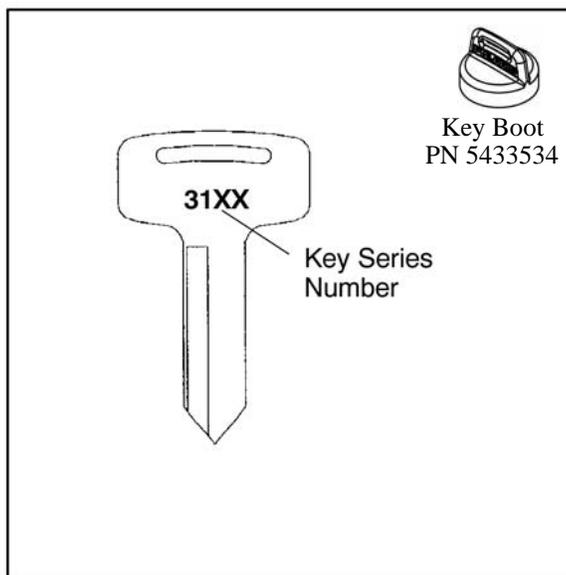
PAINTED PART	COLOR DESCRIPTION	DITZLER NUMBER	POLARIS NUMBER
Sportsman 700/800 EFI Frame	Black	9440	P-067

REPLACEMENT KEYS

Replacement keys can be made from the original key. To identify which series the key is, take the first two digits on the original key and refer to the chart to the right for the proper part number. Should both keys become lost, ignition switch replacement is required.

Table 1-3: Key Numbers

Series #	Part Number
20	4010278
21	4010278
22	4010321
23	4010321
27	4010321
28	4010321
31	4110141
32	4110148
67	4010278
68	4010278



GENERAL INFORMATION

Sportsman 'Deluxe' and 'Standard' Model Component Comparison

For Model Year 2007, a Sportsman 'Deluxe' and 'Standard' model were offered. Use the following table as a guide:

SPORTSMAN 'DELUXE' MODEL	Item Location	SPORTSMAN 'STANDARD' MODEL
Winch	1	No Winch
PXT Tires	2	Titan Tires
PVT w/EBS	3	Non-EBS (800 X2 excluded)
Rear Work Lights	4	No Work Lights
Front Drive w/ Active Descent Control (ADC)	5	No Active Descent Control (ADC)
Speed Sensor Wiring for ADC	6	No Sensor Wiring Change
Rear Rack Extension	7	No Rack Extension
Cast Aluminum Wheels	8	Steel Wheels
Dual Exhaust (800 EFI only)	9	Single Exhaust (800 EFI and X2)
Wire Harness w/ Active Descent Control (ADC)	10	Standard Wire Harness
ECU w/ Active Descent Control (ADC)	10	Standard ECU



Deluxe Model Pictured

Sportsman X2 ‘Deluxe’ and ‘Standard’ Model Component Comparison

For Model Year 2007, an X2 ‘Deluxe’ and ‘Standard’ model were offered. Use the following table as a guide:

X2 ‘DELUXE’ MODEL	Item Location	X2 ‘STANDARD’ MODEL
Winch	1	No Winch
Rear Work Lights	2	No Work Lights
Front Drive w/ Active Descent Control (ADC)	3	No Active Descent Control (ADC)
Cast Aluminum Wheels	4	Steel Wheels



Standard Model Pictured

GENERAL INFORMATION

2007 SPORTSMAN 700 EFI

MODEL NUMBER: A07MH68AX, AY, AZ
(Standard Model Only)

ENGINE MODEL: EH068OLE

**Table 1-4: Sportsman 700 EFI
General Specifications**

Category	Dimension / Capacity
Length	83 in./205.74 cm
Width	48 in./116.8 cm
Height	48 in./119.4 cm
Seat Height	34 in./86.4 cm
Wheel Base	50.75 in./128.9 cm
Dry Weight	770 lbs./326.6 kg
Gross Vehicle Weight	1220 lbs. / 553 kg
Front Rack Capacity	100 lbs./45.4 kg
Rear Rack Capacity	200 lbs./90.7 kg
Towing Capacity	1500 lbs./680 kg
Body Style	Spirit
Hitch Tongue Capacity	150 lbs./68 kg



Table 1-5: 2007 700 EFI Specifications

ENGINE	
Platform	Polaris Twin Cylinder
Engine Model Number	EH068OLE025
Engine Displacement	683cc
Number of Cylinders	2
Bore & Stroke (mm)	80 x 68 mm
Compression Ratio	9.78:1
Compression Pressure	150-170 psi
Engine Idle Speed	1150 ± 100 RPM
Engine Max Operating Rpm	6500 Rpm ± 200 Rpm
Cooling System / Capacity	Liquid - 3.2 qt / 3 ltr
Overheat Warning	HOT on Instrument Cluster
Lubrication	Pressurized Wet Sump
Oil Requirements / Capacity	Polaris 0W-40 2 qt. / 1.9 ltr
Exhaust System	Single Pipe USFS Approved
Fuel System	
Fuel System	Electronic Fuel Injection (EFI)
Fuel Pump (in tank assembly)	25L per hr. at 39 psi
Fuel Filter(s)	30 micron in Tank - (unserviceable) 10 micron in-line (replaceable)
Fuel Injector(s)	Bosch
EFI Controller	Bosch MSE 1.1B
Fuel Capacity / Requirement	4.13 gal US / 15.6 liters 87 Octane (minimum) or 89 Oxygenated
Electrical	
Alternator Output	500 w @ 6000 RPM
Lights : Pod	50 watts
Grill	Two x 27 watts
Brake	8.26 watts
Tail	26.9 watts
Ignition System	DC/CDI Ignition
Ignition Timing	13° BTDC @ 1200 RPM
Spark plug / Gap	RC7YC / .035 in. / 0.9 mm
Battery / Amp Hr	Lead Acid / 30 Amp Hr.
Circuit Breakers	Fan 20 amp / Harness 20 amp / ECU 15 amp / Inst. Cluster / Voltage Regulator 6 amp
Starting	Electric
Instrument Cluster	Analog Speedo w/ LCD

Table 1-6: 2007 700 EFI Specifications

Drivetrain	
Transmission Type	Drumshift - H/L/N/Rev/Park
Transmission Capacity	15 oz. / 445 ml
Front Gearcase Capacity- CH	8.97 / 265 ml
Rear Gearcase Capacity	5 oz. / 150 ml
Gear Ratio :	Low 7.49:1 Rev 5.11:1 High 2.70:1 Front Drive 3.82:1 Rear Drive 3.10:1
Clutch Type	PVT Non-EBS
Belt	3211113
Steering / Suspension	
Front Suspension / Shock	A-arm / MacPherson Strut
Front Travel	8.2 in. / 21 cm
Rear Suspension / Shock	Progressive Rate Independent - Coil - over shock
Rear Travel	9.5 in. / 24.13 cm
Ground Clearance	11.25 in. / 28.6 cm
Shock Preload Adjustment Front / Rear	Front -Non Adjustable. Rear - Ratchet Style- Std.
Turning Radius	76 in. / 193 cm unlocked
Toe Out	0-1/16 in / .0 - .159 mm
Wheels / Brakes	
Wheel Size / Pattern - Front	Steel 24 x 8-12 / 4-156
Wheel Size / Pattern - Rear	Steel 24 x 11-12 / 4-156
Front Tire Size	24 x 8-12
Rear Tire Size	24 x 11-12
Recommended Air Pressure	Front & Rear - 5 psi
Brake - Front	Dual Hydraulic Disc
Brake - Rear	Dual Hydraulic Disc

Table 1-7: 2007 700 EFI Clutching

Altitude		Shift Weight	Drive Clutch Spring	Driven Clutch Type (Non-Adjustable)
Meters (Feet)				
0-1800 (0-6000)	A07MH68 (STANDARD)	20-58 5631216	Grn/Blu 7041157	STD - 1322514
1800-3700 (6000-12000)	A07MH68 (STANDARD)	20-56 5631215	Grn/Blu 7041157	STD - 1322514

GENERAL INFORMATION

2007 SPORTSMAN 800 EFI

MODEL NUMBER: A07MH76AX, AY, AZ / A07MN76AQ, AF / A07MH76FA
(Standard) (Deluxe) (International)

ENGINE MODEL: EH076OLE

**Table 1-8: Sportsman 800 EFI
General Specifications**

Category	Dimension / Capacity
Length	83 in./205.74 cm
Width	48 in./116.8 cm
Height	48 in./119.4 cm
Seat Height	34 in./86.4 cm
Wheel Base	50.75 in./128.9 cm
Dry Weight	770 lbs./326.6 kg
Gross Vehicle Weight	1220 lbs. / 553 kg
Front Rack Capacity	100 lbs./45.4 kg
Rear Rack Capacity	200 lbs./90.7 kg
Towing Capacity	1500 lbs./680 kg
Body Style	Spirit
Hitch Tongue Capacity	150 lbs./68 kg



Deluxe Model Shown

Table 1-9: 2007 800 EFI Specifications

ENGINE	
Platform	Polaris Twin Cylinder
Engine Model Number	EH076OLE013
Engine Displacement	760cc
Number of Cylinders	2
Bore & Stroke (mm)	80 x 76.5 mm
Compression Ratio	10:1
Compression Pressure	150-200 psi
Engine Idle Speed	1150 ± 100 RPM
Engine Max Operating Rpm	6500 Rpm ± 200 Rpm
Cooling System / Capacity	Liquid - 3.2 qt/ 3 ltr.
Overheat Warning	HOT on Instrument Cluster
Lubrication	Pressurized Wet Sump
Oil Requirements / Capacity	Polaris 0W-40 2 qt. / 1.9 liters
Exhaust System	Dual Pipe / Silencer (Deluxe) Single Pipe / Silencer (Standard)
Fuel System	
Fuel System	Electronic Fuel Injection
Fuel Pump	25L per hour at 39 PSI
Fuel Filter(s)	30 micron in Tank - (unserviceable) 10 micron in Line (replaceable)
Fuel Injector(s)	Bosch
EFI Controller	Bosch MSE 1.1B
Fuel Capacity / Requirement	4.13 gal US / 15.6 liters 87 Octane (minimum) or 89 Oxygenated
Electrical	
Alternator Output	500 w @ 6000 RPM
Lights :	Pod 30 watts
Grill	Two x 27 watts
Brake	8.26 watts
Tail	26.9 watts
Worklights (Deluxe Only)	2 x 13 watts
Ignition System	DC/CDI Ignition
Ignition Timing	13°BTDC @ 1200 RPM
Spark plug / Gap	RC7YC/ .035 in. / 0.9 mm
Battery / Amp Hr	Lead Acid / 30 Amp Hr
Circuit Breakers	Fan 20 amp / Harness 20 amp / ECU 15 amp / Inst. Cluster / Voltage Regulator 6 amp
Starting	Electric
Instrument Cluster	Analog Speedo w/ LCD

Table 1-10: 2007 800 EFI Specifications

Drivetrain	
Transmission Type	Drumshift - H/L/N/Rev/Park
Transmission Capacity	15 oz. / 450ml
Front Gearcase Capacity- CH	8.97 / 265 ml
Front Gearcase Capacity- ADC	9.3 / 275 ml
Rear Gearcase Capacity	5 oz. / 150ml
Gear Ratio :	Low 7.49:1 Rev 5.11:1 High 2.70:1 Front Drive 3.82:1 Rear Drive 3.10:1
Clutch Type	PVT (Std) EBS (Deluxe)
Belt	3211113
Steering / Suspension	
Front Suspension / Shock	A-arm / MacPherson Strut
Front Travel	8.2 in. / 21 cm
Rear Suspension / Shock	Progressive Rate Independent - Coil - over shock
Rear Travel	9.5 in. / 24.13 cm
Ground Clearance	11.25 in. / 28.6 cm
Shock Preload Adjustment Front / Rear	Front -Non Adjustable. Rear - Ratchet Style- Std.
Turning Radius	76 in. / 193 cm
Toe Out	0 - 1/16 in / .0 - .159 mm
Wheels / Brakes	
Wheel Size / Pattern - Front	26 x 8 - 12 / 4-156
Wheel Size / Pattern - Rear	26 x 11 - 12 / 4-156
Front Tire Size	26 x 8 - 12
Rear Tire Size	26 x 11 - 12
Recommended Air Pressure	Front - 5 psi & Rear - 5 psi
Brake - Front	Dual Hydraulic Disc
Brake - Rear	Dual Hydraulic Disc

Table 1-11: A07MH76A/A07MN76A Clutching

Altitude		Shift Weight	Drive Clutch Spring	Driven Clutch Type (Non-Adjustable)
Meters (Feet)				
0-1800 (0-6000)	A07MH76 (STANDARD)	20-62 5631700	Blu/Red 7043199	STD - 1322514
	A07MN76 (DELUXE) (INTERNATIONAL)	20-62 w/EBS	Grn/Blu 7041157 w/EBS	EBS - 1322550
1800-3700 (6000-12000)	A07MH76 (STANDARD)	20-60 5631698	Blu/Red 7043199	STD - 1322514
	A07MN76 (DELUXE) (INTERNATIONAL)	20-60 w/EBS	Grn/Blu 7041157 w/EBS	EBS - 1322550

GENERAL INFORMATION

2007 SPORTSMAN X2 800 EFI

MODEL NUMBER: A07TH76AU, A07TN76AF
(Standard) (Deluxe)

ENGINE MODEL: EH076OLE

**Table 1-12: Sportsman X2 800 EFI
General Specifications**

Category	Dimension / Capacity
Length	93 in./236.22 cm
Width	48 in./116.8 cm
Height	48 in./119.4 cm
Seat Height	34 in./86.4 cm
Wheel Base	57 in./128.9 cm
Dry Weight	Standard 839 lbs./380.5 kg Deluxe 874 lbs./396 kg
Gross Vehicle Weight	1500 lbs./680.3 kg
Front Rack/ Box Capacity	90 lbs./40.8 kg
Rear Box Capacity	400 lbs./181.4 kg
Towing Capacity	1500 lbs./680 kg
Body Style	Spirit
Hitch Tongue Capacity	150 lbs./68 kg



Standard Model Shown

Table 1-13: 2007 800 X2 EFI Specifications

ENGINE	
Platform	Polaris Twin Cylinder
Engine Model Number	EH076OLE013
Engine Displacement	760cc
Number of Cylinders	2
Bore & Stroke (mm)	80 x 76.5 mm
Compression Ratio	10:1
Compression Pressure	150-200 psi
Engine Idle Speed	1150 ± 100 RPM
Engine Max Operating Rpm	6500 Rpm ± 200 Rpm
Cooling System / Capacity	Liquid - 3.4 qt/ 3.2 ltr.
Overheat Warning	HOT on Instrument Cluster
Lubrication	Pressurized Wet Sump
Oil Requirements / Capacity	Polaris 0W-40 2 qt. / 1.9 liters
Exhaust System	Single Pipe / Silencer
Fuel System	
Fuel System	Electronic Fuel Injection
Fuel Pump	25L per hour at 39 PSI
Fuel Filter(s)	30 micron in Tank - (unserviceable) 10 micron in Tank - (unserviceable) 10 micron in Line (replaceable)
Fuel Injector(s)	Bosch
EFI Controller	Bosch MSE 1.1B
Fuel Capacity / Requirement	6.0 gal US / 22.7 liters 87 Octane (minimum) or 89 Oxygenated
Electrical	
Alternator Output	500 w @ 6000 RPM
Lights :	Pod 50 watts
Grill	Two x 37 watts
Tail	2 x 26.9 watts
Brake	2 x 8.26 watts
Worklights (Deluxe Only)	2 x 13 watts
Indicator Panel	1 watt
Ignition System	DC/CDI Ignition
Ignition Timing	Variable - ECU controlled
Spark plug / Gap	RC7YC/ .035 in. / 0.9 mm
Battery / Amp Hr	Lead Acid / 30 Amp Hr
Fuses	Fan 20 amp / Harness 20 amp / ECU 15 amp / Inst. Cluster / Voltage Regulator 6 amp
Starting	Electric
Instrument Cluster	Analog Speedo w/ LCD

Table 1-14: 2007 800 X2 EFI Specifications

Drivetrain	
Transmission Type	Drumshift - H/L/N/Rev/Park
Transmission Capacity	32 oz. / 946.3ml
Front Gearcase Capacity- CH	8.97 / 265 ml
Front Gearcase Capacity- ADC	9.3 / 275 ml
Gear Ratio :	Low 23.91:1 Rev 21.74:1 High 8.28:1 Front Drive 3.82:1
Clutch Type	PVT w/ EBS (Standard and Deluxe)
Belt	3211113
Steering / Suspension	
Front Suspension / Shock	A-arm / MacPherson Strut
Front Travel	8.2 in. / 21 cm
Rear Suspension / Shock	Progressive Rate Independent - Coil - over shock
Rear Travel	8.75 in. / 22.22 cm
Ground Clearance	11.25 in. / 28.6 cm
Shock Preload Adjustment Front / Rear	Front -Non Adjustable. Rear - Ratchet Style- Std.
Turning Radius	82 in. / 208.2 cm
Toe Out	0 - 1/16 in / .0 - .159 mm
Wheels / Brakes	
Wheel Size / Pattern - Front	25 x 8 - 12 / 4-156
Wheel Size / Pattern - Rear	25 x 11 - 12 / 4-156
Front Tire Size	25 x 8 - 12
Rear Tire Size	25 x 11 - 12
Recommended Air Pressure	Front - 5 psi & Rear - 5 psi
Brake - Front	Dual Hydraulic Disc
Brake - Rear	Dual Hydraulic Disc

Table 1-15: 2007 800 X2 EFI Clutching

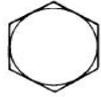
Altitude		Shift Weight	Drive Clutch Spring	Driven Clutch Type (Non-Adjustable)
Meters (Feet)				
0-1800 (0-6000)	A07TH76A (STANDARD)	20-62 w/EBS	Grn/Blu 7041157 w/EBS	EBS - 1322550
	A07TN76A (DELUXE)			
1800-3700 (6000-12000)	A07TH76A (STANDARD)	20-58 w/EBS	Grn/Blu 7041157 w/EBS	EBS - 1322550
	A07TN76A (DELUXE)			

GENERAL INFORMATION

MISC. NUMBERS/CHARTS

Standard Torque Specifications

The following torque specifications are to be used as a general guideline. FOR SPECIFIC TORQUE VALUES OF FASTENERS Refer to exploded views in the appropriate section. There are exceptions in the steering, suspension, and engine sections.



Bolt Size	Threads/In	Grade 2 Torque in. lbs. (Nm)		
		Grade 2	Grade 5	Grade 8
#10	- 24	27 (3.1)	43 (5.0)	60 (6.9)
#10	- 32	31 (3.6)	49 (5.6)	68 (7.8)
		Torque ft. lbs. (Nm)*		
1/4	- 20	5 (7)	8 (11)	12 (16)
1/4	- 28	6 (8)	10 (14)	14 (19)
5/16	- 18	11(15)	17 (23)	25 (35)
5/16	- 24	12(16)	19 (26)	29 (40)
3/8	- 16	20(27)	30 (40)	45 (62)
3/8	- 24	23(32)	35 (48)	50 (69)
7/16	- 14	30(40)	50 (69)	70 (97)
7/16	- 20	35(48)	55 (76)	80 (110)
1/2	- 13	50(69)	75 (104)	110 (152)
1/2	- 20	55(76)	90 (124)	120 (166)

Metric / Torque

6 x 1.0. 72-78 In.lbs. 8 x 1.25 14-18 ft.lbs. 10 x 1.25 26-30 ft.lbs.

SPECIAL TOOLS

Special tools may be required while servicing this vehicle. Some of the tools listed or depicted are mandatory, while other tools may be substituted with a similar tool, if available. Polaris recommends the use of Polaris Special Tools when servicing any Polaris product. Dealers may order special tools through Polaris' official tool supplier, SPX Corporation, 1-800-328-6657.

SAE Tap Drill Sizes

Thread Size/ Drill Size		Thread Size / Drill Size	
#0-80	3/64	1/2-13	27/64
#1-64	53	1/2-20	29/64
#1-72	53	9/16-12	31/64
#2-56	51	9/16-18	33/64
#2-64	50	5/8-11	17/32
#3-48	5/64	5/8-18	37/64
#3-56	45	3/4-10	21/32
#4-40	43	3/4-16	11/16
#4-48	42	7/8-9	49/64
#5-40	38	7/8-14	13/16
#5-44	37	1-8	7/8
#6-32	36	1-12	59/64
#6-40	33	1 1/8-7	63/64
#8-32	29	1 1/8-12	1 3/64
#8-36	29	1 1/4-7	1 7/64
#10-24	24	1 1/4-12	1 11/64
#10-32	21	1 1/2-6	1 11/32
#12-24	17	1 1/2-12	1 27/64
#12-28	4.6mm	1 3/4-5	1 9/16
1/4-20	7	1 3/4-12	1 43/64
1/4-28	3	2-4 1/2	1 25/32
5/16-18	F	2-12	1 59/64
5/16-24	I	2 1/4-4 1/2	2 1/32
3/8-16	O	2 1/2-4	2 1/4
3/8-24	Q	2 3/4-4	2 1/2
7/16-14	U	3-4	2 3/4
7/16-20	25/64		

Metric Tap Drill Sizes

Tap Size	Drill Size	Decimal Equivalent	Nearest Fraction
3x.50	#39	0.0995	3/32
3x.60	3/32	0.0937	3/32
4x.70	#30	0.1285	1/8
4x.75	1/8	0.125	1/8
5x.80	#19	0.166	11/64
5x.90	#20	0.161	5/32
6x1.00	#9	0.196	13/64
7x1.00	16/64	0.234	15/64
8x1.00	J	0.277	9/32
8x1.25	17/64	0.265	17/64
9x1.00	5/16	0.3125	5/16
9x1.25	5/16	0.3125	5/16
10x1.25	11/32	0.3437	11/32
10x1.50	R	0.339	11/32
11x1.50	3/8	0.375	3/8
12x1.50	13/32	0.406	13/32
12x1.75	13/32	0.406	13/32

Decimal Equivalents

1/64	.....	.0156	
1/32	.....	.0312	.. 1 mm = .0394"
3/64	.....	.0469	
1/16	.....	.0625	
5/64	.....	.0781	.. 2 mm = .0787"
3/32	.....	.0938	
7/64	.....	.1094	.. 3 mm = .1181"
1/8	.....	.1250	
9/64	.....	.1406	
5/32	.....	.1563	.. 4 mm = .1575"
11/64	.....	.1719	
3/16	.....	.1875	.. 5mm = .1969"
13/64	.....	.2031	
7/32	.....	.2188	
15/64	.....	.2344	.. 6 mm = .2362"
1/4	.....	.25	
17/64	.....	.2656	.. 7 mm = .2756"
9/32	.....	.2813	
19/64	.....	.2969	
5/16	.....	.3125	.. 8mm = .3150"
21/64	.....	.3281	
11/32	.....	.3438	.. 9 mm = .3543"
23/64	.....	.3594	
3/8	.....	.375	
25/64	.....	.3906	.. 10 mm = .3937"
13/32	.....	.4063	
27/64	.....	.4219	.. 11 mm = .4331"
7/16	.....	.4375	
29/64	.....	.4531	
15/32	.....	.4688	.. 12 mm = .4724"
31/64	.....	.4844	
1/2	.....	.5	.. 13mm = .5118"
33/64	.....	.5156	
17/32	.....	.5313	
35/64	.....	.5469	.. 14 mm = .5512"
9/16	.....	.5625	
37/64	.....	.5781	.. 15 mm = .5906"
19/32	.....	.5938	
39/64	.....	.6094	
5/8	.....	.625	.. 16mm = .6299"
41/64	.....	.6406	
21/32	.....	.6563	.. 17 mm = .6693"
43/64	.....	.6719	
11/16	.....	.6875	
45/64	.....	.7031	.. 18 mm = .7087"
23/32	.....	.7188	
47/64	.....	.7344	.. 19 mm = .7480"
3/4	.....	.75	
49/64	.....	.7656	
25/32	.....	.7813	.. 20 mm = .7874"
51/64	.....	.7969	
13/16	.....	.8125	.. 21 mm = .8268"
53/64	.....	.8281	
27/32	.....	.8438	
55/64	.....	.8594	.. 22 mm = .8661"
7/8	.....	.875	
57/64	.....	.8906	.. 23 mm = .9055"
29/32	.....	.9063	
59/64	.....	.9219	
15/16	.....	.9375	.. 24 mm = .9449"
61/64	.....	.9531	
31/32	.....	.9688	.. 25 mm = .9843"
63/64	.....	.9844	
1	.....	1.0	

GENERAL INFORMATION

Conversion Table

Unit of Measure	Multiplied by	Converts to
ft. lbs.	x 12	= in. lbs.
in. lbs.	x .0833	= ft. lbs.
ft. lbs.	x 1.356	= Nm
in. lbs.	x .0115	= kg-m
Nm	x .7376	= ft. lbs.
kg-m	x 7.233	= ft. lbs.
kg-m	x 86.796	= in. lbs.
kg-m	x 10	= Nm
in.	x 25.4	=mm
mm	x .03937	= in.
in.	x 2.54	= cm
mile (mi.)	x 1.6	= km
km	x .6214	= mile (mi.)
Ounces (oz.)	x 28.35	= Grams (g)
Fluid Ounces (fl. oz.)	x 29.57	= Cubic Centimeters (cc)
Cubic Centimeters (cc)	x .03381	= Fluid Ounces (fl. oz.)
Grams (g)	x 0.035	= Ounces (oz.)
lb.	x .454	= kg
kg	x 2.2046	= lb.
Cubic inches (cu. in)	x 16.387	= Cubic centimeters (cc)
Cubic centimeters (cc)	x 0.061	= Cubic inches (cu. in)
Imperial pints (Imp pt.)	x 0.568	= Liters (l)
Liters (l)	x 1.76	= Imperial pints (Imp pt.)
Imperial quarts (Imp qt.)	x 1.137	= Liters (l)
Liters (l)	x 0.88	= Imperial quarts (Imp qt.)
Imperial quarts (Imp qt.)	x 1.201	= US quarts (US qt.)
US quarts (US qt.)	x 0.833	= Imperial quarts (Imp qt.)
US quarts (US qt.)	x 0.946	= Liters (l)
Liters (l)	x 1.057	= US quarts (US qt.)
US gallons (US gal)	x 3.785	=Liters (l)
Liters (l)	x 0.264	= US gallons (US gal)
Pounds - force per square inch (psi)	x 6.895	= Kilopascals (kPa)
Kilopascals (kPa)	x 0.145	= Pounds - force per square inch (psi)
Kilopascals (kPa)	x 0.01	= Kilograms - force per square cm
Kilograms - force per square cm	x 98.1	= Kilopascals (kPa)
$\pi(3.14) \times R^2 \times H$ (height)		= Cylinder Volume

°C to °F: $9 (°C + 40) \div 5 - 40 = °F$

°F to °C: $5 (°F + 40) \div 9 - 40 = °C$

Glossary Of Terms

ABDC: After bottom dead center.

ACV: Alternating current voltage.

ADC: Active Descent Control. Engages front wheels for 4-wheel EBS.

Alternator: Electrical generator producing voltage alternating current.

ATDC: After top dead center.

BBDC: Before bottom dead center.

BDC: Bottom dead center.

BTDC: Before top dead center.

CC: Cubic centimeters.

Center Distance: Distance between center of crankshaft and center of driven clutch shaft.

Chain Pitch: Distance between chain link pins (No. 35 = 3/8" or 1 cm). Polaris measures chain length in number of pitches.

CI: Cubic inches.

Clutch Buttons: Plastic bushings which aid rotation of the movable sheave in the drive and driven clutch.

Clutch Offset: Drive and driven clutches are offset so that drive belt will stay nearly straight as it moves along the clutch face.

Clutch Weights: Three levers in the drive clutch which relative to their weight, profile and engine RPM cause the drive clutch to close and grip the drive belt.

Crankshaft Run-Out: Run-out or "bend" of crankshaft measured with a dial indicator while crankshaft is supported between centers on V blocks or resting in crankcase. Measure at various points especially at PTO.

CVT: Centrifugal Variable Transmission (Drive Clutch System)

DCV: Direct current voltage.

Dial Bore Gauge: A cylinder measuring instrument which uses a dial indicator. Good for showing taper and out-of-round in the cylinder bore.

EBS: Engine Braking System. Uses engine compression to slow the ATV without the use of hydraulic brakes.

Electrical Open: Open circuit. An electrical circuit which isn't complete.

Electrical Short: Short circuit. An electrical circuit which is completed before the current reaches the intended load. (i.e. a bare wire touching the chassis).

End Seals: Rubber seals at each end of the crankshaft.

Engagement RPM: Engine RPM at which the drive clutch engages to make contact with the drive belt.

ft.: Foot/feet.

Foot Pound: Ft. lb. A force of one pound at the end of a lever one foot in length, applied in a rotational direction.

g: Gram. Unit of weight in the metric system.

gal.: Gallon.

ID: Inside diameter.

in.: Inch/inches.

Inch Pound: In. lb. 12 in. lbs. = 1 ft. lb.

kg/cm²: Kilograms per square centimeter.

kg-m: Kilogram meters.

Kilogram/meter: A force of one kilogram at the end of a lever one meter in length, applied in a rotational direction.

l or ltr: Liter.

lbs/in²: Pounds per square inch.

Left or Right Side: Always referred to based on normal operating position of the driver.

m: Meter/meters.

Mag: Magneto.

Magnetic Induction: As a conductor (coil) is moved through a magnetic field, a voltage will be generated in the windings. Mechanical energy is converted to electrical energy in the stator.

mi.: Mile/miles.

mm: Millimeter. Unit of length in the metric system. 1 mm = approximately .040".

Nm: Newton meters.

OD: Outside diameter.

Ohm: The unit of electrical resistance opposing current flow.

oz.: Ounce/ounces.

Piston Clearance: Total distance between piston and cylinder wall.

psi.: Pounds per square inch.

PTO: Power take off.

qt.: Quart/quarts.

Regulator: Voltage regulator. Regulates battery charging system output at approximately 14.5 DCV as engine RPM increases.

Reservoir Tank: The fill tank in the liquid cooling system.

Resistance: In the mechanical sense, friction or load. In the electrical sense, ohms, resulting in energy conversion to heat.

RPM: Revolutions per minute.

Seized Piston: Galling of the sides of a piston. Usually there is a transfer of aluminum from the piston onto the cylinder wall.

Possible causes: 1) improper lubrication; 2) excessive temperatures; 3) insufficient piston clearance; 4) stuck piston rings.

Stator Plate: The plate mounted under the flywheel supporting the battery charging coils.

TDC: Top dead center. Piston's most outward travel from crankshaft.

Volt: The unit of measure for electrical pressure of electromotive force. Measured by a voltmeter in parallel with the circuit.

Watt: Unit of electrical power. Watts = amperes x volts.

WOT: Wide open throttle.

CHAPTER 2

MAINTENANCE



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MAINTENANCE

Overview

Careful periodic maintenance will help keep your vehicle in the safest, most reliable condition. Inspection, adjustment and lubrication of important components are explained in the periodic maintenance chart.

Inspect, clean, lubricate, adjust and replace parts as necessary. When inspection reveals the need for replacement parts, use genuine Polaris parts available from your Polaris dealer.

NOTE: Service and adjustments are critical. If you're not familiar with safe service and adjustment procedures, have a qualified dealer perform these operations.

Maintenance intervals in the following chart are based upon average riding conditions and an average vehicle speed of approximately 10 miles per hour. Vehicles subjected to severe use must be inspected and serviced more frequently.

- Frequent immersion in mud, water or sand
- Racing or race-style high RPM use
- Prolonged low speed, heavy load operation
- Extended idle
- Short trip cold weather operation

Pay special attention to the oil level. A rise in oil level during cold weather can indicate contaminants collecting in the oil sump or crankcase. Change oil immediately if the oil level begins to rise. Monitor the oil level, and if it continues to rise, discontinue use and determine the cause.

Maintenance Chart Key

The following symbols denote potential items to be aware of during maintenance:

■ = CAUTION: Due to the nature of these adjustments, it is recommended this service be performed by an authorized Polaris dealer.

▶ = SEVERE USE ITEM --If vehicle is subjected to severe use, decrease interval by 50% (Severe Use is defined as frequent vehicle immersion in mud, water or sand, racing or race-style high rpm use, prolonged low speed - heavy load operation or extended idle. More preventative maintenance is required under these conditions. Fluid changes, cable, chain and chassis lubrication are required more frequently. For engine oil, short trip cold weather riding also constitutes severe use. Pay special attention to oil level. A rising oil level in cold weather can indicate contaminants collecting in the oil sump or crankcase. Change oil immediately and monitor level. If oil level begins to rise, discontinue use and determine cause.)

E = Emission Control System Service (California).

NOTE: Inspection may reveal the need for replacement parts. Always use genuine Polaris parts.

WARNING: Improperly performing the procedures marked with a **■** could result in component failure and lead to serious injury or death. Have an authorized Polaris dealer perform these services.

MAINTENANCE

Periodic Maintenance Chart

Table 2-1: REQUIRED MAINTENANCE INTERVALS

ITEM		MAINTENANCE INTERVAL			REMARKS
		Hours	Calendar	Miles (KM)	
■	Steering	--	Pre-Ride	--	Make adjustments as needed.
▶	Front Suspension	--	Pre-Ride	--	
▶	Rear Suspension	--	Pre-Ride	--	
	Tires	--	Pre-Ride	--	
▶	ADC Fluid Level	--	Pre-Ride	--	
▶	Brake Fluid Level	--	Pre-Ride	--	
▶	Brake Lever Travel	--	Pre-Ride	--	
	Brake Systems	--	Pre-Ride	--	
	Wheels/Fasteners	--	Pre-Ride	--	
	Frame Fasteners	--	Pre-Ride	--	
▶, E	Engine Oil Level	--	Pre-Ride	--	
▶, E	Air filter, pre-filter	--	Daily	--	Inspect; clean often
▶, E	Air Box Sediment Tube	--	Daily	--	Drain deposits when visible
	Coolant (if applicable)	--	Daily	--	Check level daily, change coolant every 2 years
	Head lamp/tail lamp	--	Daily	--	Check operation; apply dielectric grease if replacing
▶, E	Air filter, main element	--	Weekly	--	Inspect; replace as needed
	Recoil housing (if applicable)	--	Weekly	--	Drain water as needed, check often if operating in wet conditions
▶, E	Brake Pad Wear	10 H	Monthly	60 (100)	Inspect periodically
	Battery	20 H	Monthly	125 (200)	Check terminals; clean; test
▶ = Perform these procedures more often for vehicles subjected to severe use.					
E = Emission Control System Service (California)					
■ = Have an authorized Polaris Dealer perform these services.					

Table 2-1: REQUIRED MAINTENANCE INTERVALS

ITEM		MAINTENANCE INTERVAL			REMARKS
		Hours	Calendar	Miles (KM)	
▶	Front gearcase oil (if equipped)	25 H	Monthly	155 (250)	Inspect level; change yearly
▶	Middle gearcase oil (if equipped)	25 H	Monthly	155 (250)	Inspect level; change yearly
▶	Rear gearcase oil (if equipped)	25 H	Monthly	155 (250)	Inspect level; change yearly
▶	Transmission Oil	25 H	Monthly	155 (250)	Inspect level; change yearly
▶, E	Engine breather filter (if equipped)	25 H	Monthly	155 (250)	Inspect; replace if necessary
▶, E	Engine oil change (break-in)	25 H	1 M	155 (250)	Perform a break-in oil change at one month
▶	General lubrication	50 H	3 M	310 (500)	Lubricate all fittings, pivots, cables, etc.
	Shift Linkage	50 H	6 M	310 (500)	Inspect, lubricate, adjust
■	Steering	50 H	6 M	310 (500)	Lubricate
▶	Front Suspension	50 H	6 M	310 (500)	Lubricate
▶	Rear Suspension	50 H	6 M	310 (500)	Lubricate
■, E	Throttle Cable/ ETC Switch	50 H	6 M	310 (500)	Inspect; adjust; lubricate; replace if necessary
E	Air intake ducts	50 H	6 M	310 (500)	Inspect ducts for proper sealing/air leaks
	Drive belt	50 H	6 M	310 (500)	Inspect; adjust; replace as needed
	Cooling system (if applicable)	50 H	6 M	310 (500)	Inspect coolant strength seasonally; pressure test system yearly
▶, E	Engine Oil Change	100 H	6 M	620 (1000)	Perform a break-in oil change at 25 hours/one month
▶, E	Oil filter change	100 H	6 M	620 (1000)	Replace with oil change
▶, E	Oil tank vent hose (iff applicable)	100 H	12 M	620 (1000)	Inspect routing, condition
▶, E	Valve Clearance	100 H	12 M	620 (1000)	Inspect;
▶ = Perform these procedures more often for vehicles subjected to severe use.					
E = Emission Control System Service (California)					
■ = Have an authorized Polaris Dealer perform these services.					

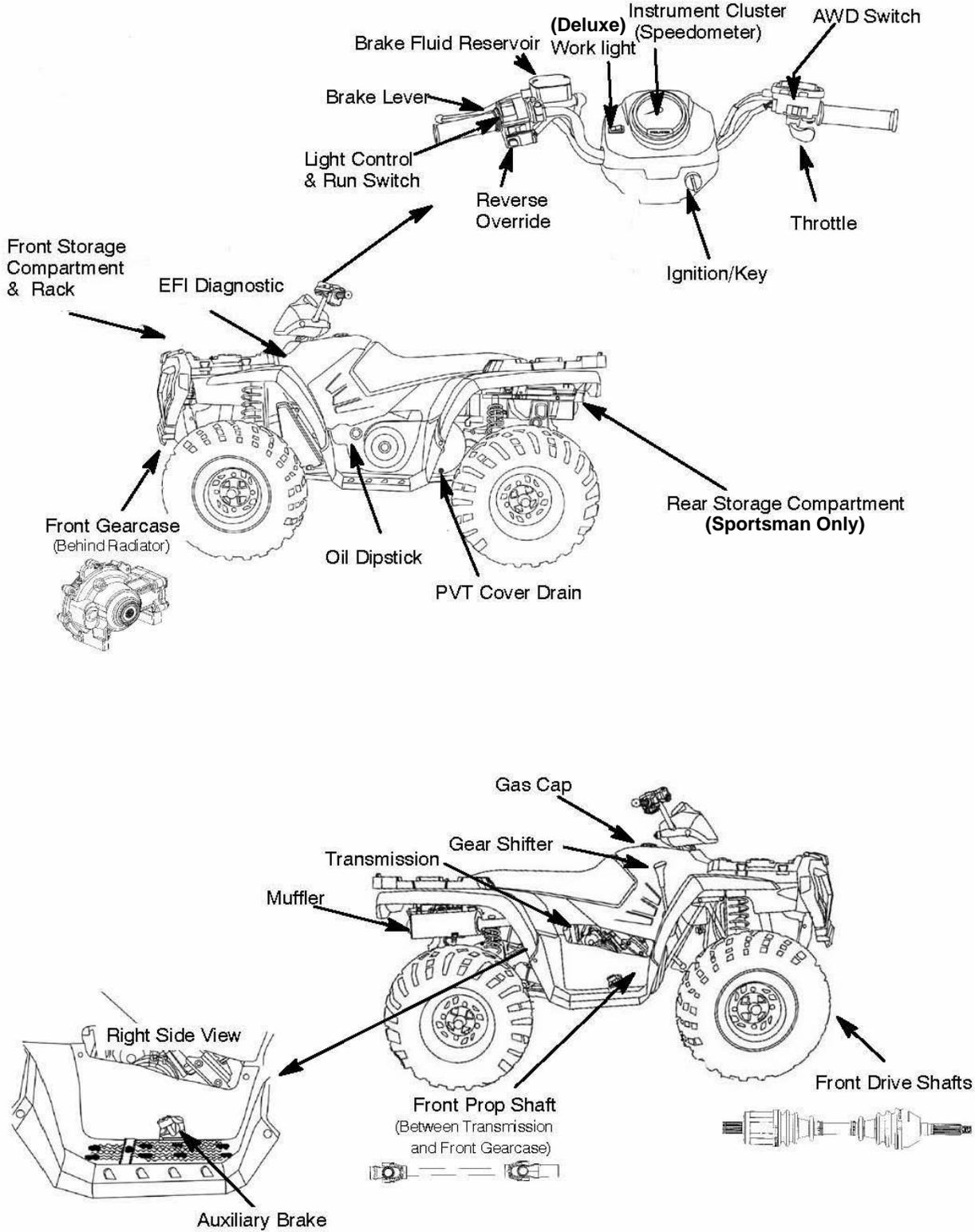
MAINTENANCE

Table 2-1: REQUIRED MAINTENANCE INTERVALS

ITEM		MAINTENANCE INTERVAL			REMARKS
		Hours	Calendar	Miles (KM)	
■, E	Fuel system	100 H	12 M	620 (1000)	Check for leaks at tank cap, lines, fuel pump, filter, pump, injectors; replace lines every two years
■, E	Fuel filter	100 H	12 M	620 (1000)	Replace yearly
▶	Radiator (if applicable)	100 H	12 M	620 (1000)	Inspect; clean external surfaces
▶	Cooling hoses (if applicable)	100 H	12 M	620 (1000)	Inspect for leaks
▶	Engine mounts	100 H	12 M	620 (1000)	Inspect
	Exhaust muffler/pipe	100 H	12 M	620 (1000)	Inspect
■, E	Spark Plug	100 H	12 M	620 (1000)	Inspect; replace as needed
■, E	Ignition Timing	100 H	12 M	620 (1000)	Inspect
▶	Wiring	100 H	12 M	620 (1000)	Inspect for wear, routing, security; apply dielectric grease to connectors subjected to water, mud, etc.
■	Clutches (drive & driven)	100 H	12 M	620 (1000)	Inspect; clean; replace worn parts
■	Front wheel bearings	100 H	12 M	1000 (1600)	Inspect; replace as needed
■	Brake fluid	200 H	24 M	1240 (1000)	Change every two years
■	ADC fluid	200 H	24 M	1240 (1000)	Change every two years
	Spark arrestor	300 H	36 M	1860 (3000)	Clean out
E	Idle Speed	----			Adjust as needed
■	Toe Adjustment	----			Inspect periodically; adjust when parts are replaced
■, ▶	Auxiliary brake	----			Inspect daily, adjust as needed
	Headlight aim	----			Adjust as needed
▶ = Perform these procedures more often for vehicles subjected to severe use.					
E = Emission Control System Service (California)					
■ = Have an authorized Polaris Dealer perform these services.					

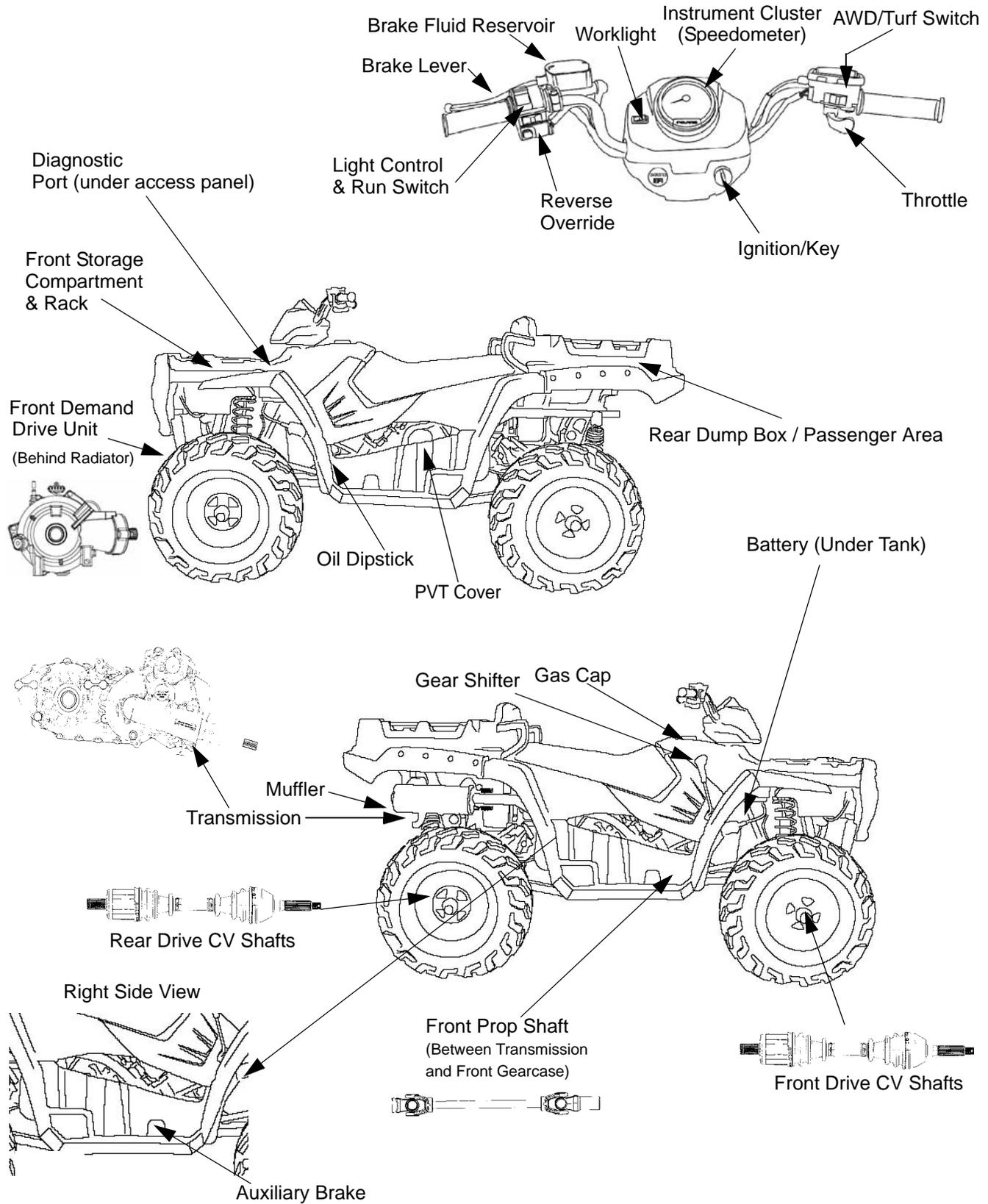
LUBRICATION / FLUIDS

SPORTSMAN Component Locations



MAINTENANCE

SPORTSMAN X2 Component Locations



Polaris Lubricants, Maintenance and Service Products

Table 2-2:

PART NUMBER	DESCRIPTION
Engine Lubricant	
2870791	Fogging Oil (12 oz. Aerosol)
2871281	Engine Oil (Quart) Premium Synthetic 0W-40 (4-cycle) (12 count)
2871844	Engine Oil (Gallon) Premium Synthetic 0W-40 (4-cycle) (4 count)
2871567	Engine Oil (16 Gallon) Premium 4 Synthetic 0W-40 (4-cycle)
Gearcase / Transmission Lubricants	
2876251	Demand Drive LT Premium Hub Fluid
3234438	Polaris ADC Hydraulic Fluid
2873602	Premium Synthetic AGL Gearcase Lube (12 oz. bottle) (12 count)
2873603	Premium Synthetic AGL Gearcase Lube (1 Gal. bottle) (4 count)
2876160	Premium ATV Angle Drive Fluid (32 oz.) (12 count)
2872276	Premium ATV Angle Drive Fluid (2.5 Gal.) (2 count)
2870465	Oil Pump for 1 Gallon Jug
Grease / Specialized Lubricants	
2871322	Premium All Season Grease (3 oz. cartridge) (24 count)
2871423	Premium All Season Grease (14 oz. cartridge) (10 count)
2871460	Starter Drive Grease (12 count)
2871515	Premium U-Joint Lube (3 oz.) (24 Count)
2871551	Premium U-Joint Lube (14 oz.) (10 count)
2871312	Grease Gun Kit
2871329	Dielectric Grease (Nyogel™)

Table 2-2:

PART NUMBER	DESCRIPTION
Coolant	
2871323	60/40 Coolant (Gallon) (6 count)
2871534	60/40 Coolant (Quart) (12 count)
Additives / Sealants / Thread Locking Agents / Misc.	
2874275	Loctite™ Primer N, Aerosol
2871956	Loctite™ Thread Sealant 565 (50 ml.) (6 count)
2871950	Loctite™ Threadlock 242 (6 ml.) (12 count)
2871951	Loctite™ Threadlock 262 (50 ml.) (10 count)
2871953	Loctite™ Threadlock 271 (6 ml.) (12 count)
2871557	3-Bond 1215 Sealant (5 oz.)
2871326	Premium Carbon Clean (12 oz.) (12 count)
2870652	Fuel Stabilizer (16 oz.) (12 count)
2871957	Black RTV Silicone Sealer (3 oz. tube) (12 count)
2871958	Black RTV Silicone Sealer (11 oz. cartridge) (12 count)
2870990	DOT 3 Brake Fluid (12 count)
2871557	Crankcase Sealant, 3 Bond 1215 (5 oz.)



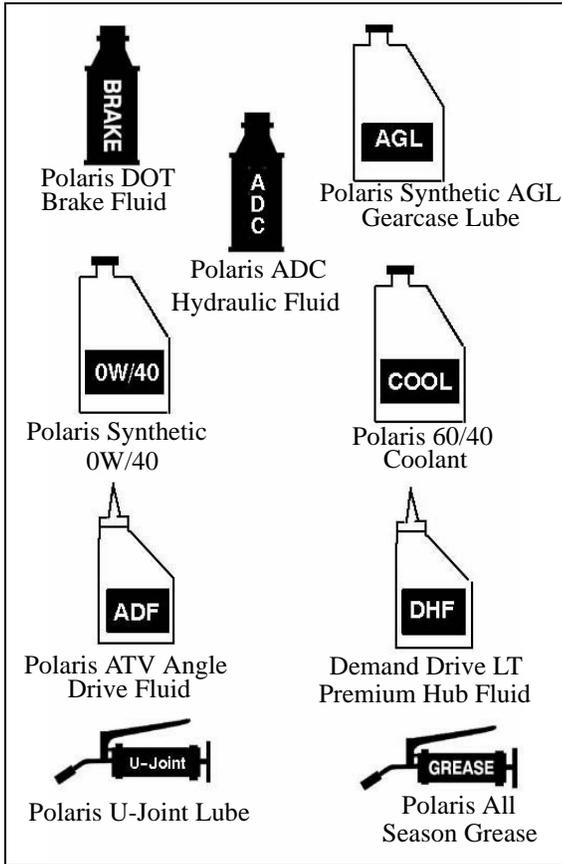
MAINTENANCE

Product: 2007 Polaris SPORTSMAN 700/800/800 X2 EFI Motorcycle Service Repair Workshop Manual

Full Download: <https://www.aresairmanual.com/downloads/2007-polaris-sportsman-700-800-800-x2-efi-motorcycle-service-repair-workshop-manual/>

Polaris Lubricant Symbol Identification

NOTE: The symbols used are for quick reference in identifying which lubricant/grease to use on each component.



Pre-Ride / Daily Inspection

Perform the following pre-ride inspection daily, and when servicing the vehicle at each scheduled maintenance.

- Tires - check tire condition and air pressures
- Fuel and oil - fill both to their proper level; Do not overfill
- All brakes - check operation and adjustment (includes auxiliary brake)
- Throttle - check for free operation
- Headlight/Taillight/Brakelight - check operation of all indicator lights and switches
- Engine stop switch - check for proper function
- Wheels - check for loose wheel nuts and axle nuts; check to be sure axle nuts are secured by cotter pins
- Air cleaner element - check for dirt or water; clean or replace
- Steering - check for free operation, noting any unusual looseness in any area
- Loose parts - visually inspect vehicle for any damaged or loose nuts, bolts or fasteners
- Engine coolant - check for proper level at the recovery bottle
- ADC Fluid Level - check for proper level