Full download: http://manualplace.com/download/arctic-cat-2011-350-425-service-manual/

FOREWORD

This Arctic Cat Service Manual contains service, maintenance, and troubleshooting information for the 2011 Arctic Cat 350/425 ATV models. The complete manual is designed to aid service personnel in service-oriented applications.

This manual is divided into sections. Each section covers a specific ATV component or system and, in addition to the standard service procedures, includes disassembling, inspecting, and assembling instructions. When using this manual as a guide, the technician should use discretion as to how much disassembly is needed to correct any given condition.

The service technician should become familiar with the operation and construction of each component or system by carefully studying the complete manual. This manual will assist the service technician in becoming more aware of and efficient with servicing procedures. Such efficiency not only helps build consumer confidence but also saves time and labor.

All Arctic Cat ATV publications and decals display the words Warning, Caution, Note, and At This Point to emphasize important information. The symbol \triangle **WARNING** identifies personal safety-related information. Be sure to follow the directive because it deals with the possibility of severe personal injury or even death. A **CAUTION** identifies unsafe practices which may result in ATV-related damage. Follow the directive because it deals with the possibility of severe personal injury or even death. A **CAUTION** identifies unsafe practices which may result in ATV-related damage. Follow the directive because it deals with the possibility of damaging part or parts of the ATV. The symbol **■ NOTE:** identifies supplementary information worthy of particular attention. The symbol **③ AT THIS POINT** directs the technician to certain and specific procedures to promote efficiency and to improve clarity.

At the time of publication, all information, photographs, and illustrations were technically correct. Some photographs used in this manual are used for clarity purposes only and are not designed to depict actual conditions. Because Arctic Cat Inc. constantly refines and improves its products, no retroactive obligation is incurred.

All materials and specifications are subject to change without notice.

Keep this manual accessible in the shop area for reference.

Product Service and Warranty Department Arctic Cat Inc.

6

8

TABLE OF CONTENTS

Note: To navigate through this manual, use the PAGE UP/PAGE DOWN buttons on the keyboard, click on the Table of Contents bookmarks on the left side of the screen, or click the blue text below. To return to this page, click the Manual Table of Contents button at the bottom of each page.

Section

- **1. General Information/Specifications**
- 2. Periodic Maintenance
- **3. Engine/Transmission**
- 4. Fuel/Lubrication/Cooling
- 5. Electrical System
- 6. Drive System
- 7. Suspension
- 8. Steering/Frame
- 9. Controls/Indicators

SECTION 1 - GENERAL INFORMATION/ SPECIFICATIONS

TABLE OF CONTENTS

General Specifications	
Torque Specifications	
Torque Conversions (ft-lb/N-m)	1-3
Break-In Procedure	
Gasoline - Oil - Lubricant	
Genuine Parts	
Preparation For Storage	
Preparation After Storage	



General Specifications

Brake TypeHydraulic w/Brake Lever Lock and Auxiliary BrakeTire Size(350)Front - 24 x 8-12 Rear - 24 x 10-12 (425)(425)Front - 25 x 8-12 Rear - 25 x 10-12Tire Inflation Pressure27.6 kPa (4 psi)MISCELLANYGas Tank Capacity (rated)15.1 L (4.0 U.S. gal.)Rear Drive Capacity250 ml (8.5 fl oz)*Front Differential Capacity275 ml (9.3 fl oz)**Coolant Capacity(425)2.9 L (3.0 U.S. qt)Engine Oil Capacity3.3 L (3.5 U.S. qt) - Overhaul 2.8 L (3.0 U.S. qt) - ChangeGasoline (recommended)87 Octane Regular UnleadedEngine Oil (recommended)Arctic Cat ACX All Weather (Syn- thetic)Differential/Rear Drive Lubri- cantSAE Approved 80W-90 HypoidDrive Belt Width (minimum)28.5 mm (1.12 in.)Brake FluidDOT 4Taillight/Brakelight12V/5W/21W							
Auxiliary BrakeTire Size(350) (425)Front - 24 x 8-12 Rear - 24 x 10-12 Front - 25 x 8-12 Rear - 25 x 10-12Tire Inflation Pressure27.6 kPa (4 psi)MISCELLANYGas Tank Capacity (rated)15.1 L (4.0 U.S. gal.)Rear Drive Capacity250 ml (8.5 fl oz)*Front Differential Capacity275 ml (9.3 fl oz)**Coolant Capacity(425)2.9 L (3.0 U.S. qt)Engine Oil Capacity3.3 L (3.5 U.S. qt) - Overhaul 2.8 L (3.0 U.S. qt) - ChangeGasoline (recommended)87 Octane Regular UnleadedEngine Oil (recommended)SAE Approved 80W-90 Hypoid cantDifferential/Rear Drive Lubri- cantSAE Approved 80W-90 HypoidDrive Belt Width (minimum)28.5 mm (1.12 in.)Brake FluidDOT 4Taillight/Brakelight12V/5W/21W	CHASSIS						
Rear - 24 x 10-12 Front - 25 x 8-12 Rear - 25 x 10-12Tire Inflation Pressure27.6 kPa (4 psi)MISCELLANYGas Tank Capacity (rated)15.1 L (4.0 U.S. gal.)Rear Drive Capacity250 ml (8.5 fl oz)*Front Differential Capacity275 ml (9.3 fl oz)**Coolant Capacity(425)2.9 L (3.0 U.S. qt)Engine Oil Capacity3.3 L (3.5 U.S. qt) - Overhaul 2.8 L (3.0 U.S. qt) - ChangeGasoline (recommended)87 Octane Regular UnleadedEngine Oil (recommended)Arctic Cat ACX All Weather (Syn- thetic)Differential/Rear Drive Lubri- cantSAE Approved 80W-90 HypoidDrive Belt Width (minimum)28.5 mm (1.12 in.)Brake FluidDOT 4Taillight/Brakelight12V/5W/21W	Brake Type		Hydraulic w/Brake Lever Lock and Auxiliary Brake				
(425)Front - 25 x 8-12 Rear - 25 x 10-12Tire Inflation Pressure27.6 kPa (4 psi)MISCELLANYGas Tank Capacity (rated)15.1 L (4.0 U.S. gal.)Rear Drive Capacity250 ml (8.5 fl oz)*Front Differential Capacity275 ml (9.3 fl oz)**Coolant Capacity(425)2.9 L (3.0 U.S. qt)Engine Oil Capacity3.3 L (3.5 U.S. qt) - Overhaul 2.8 L (3.0 U.S. qt) - ChangeGasoline (recommended)87 Octane Regular UnleadedEngine Oil (recommended)Arctic Cat ACX All Weather (Syn- thetic)Differential/Rear Drive Lubri- cantSAE Approved 80W-90 HypoidDrive Belt Width (minimum)28.5 mm (1.12 in.)Brake FluidDOT 4Taillight/Brakelight12V/5W/21W	Tire Size	(350)					
MISCELLANYGas Tank Capacity (rated)15.1 L (4.0 U.S. gal.)Rear Drive Capacity250 ml (8.5 fl oz)*Front Differential Capacity275 ml (9.3 fl oz)**Coolant Capacity(425)2.9 L (3.0 U.S. qt)Engine Oil Capacity3.3 L (3.5 U.S. qt) - Overhaul 2.8 L (3.0 U.S. qt) - ChangeGasoline (recommended)87 Octane Regular UnleadedEngine Oil (recommended)Arctic Cat ACX All Weather (Synthetic)Differential/Rear Drive LubricantSAE Approved 80W-90 HypoidDrive Belt Width (minimum)28.5 mm (1.12 in.)Brake FluidDOT 4Taillight/Brakelight12V/5W/21W		(425)	Front - 25 x 8-12				
Gas Tank Capacity (rated)15.1 L (4.0 U.S. gal.)Rear Drive Capacity250 ml (8.5 fl oz)*Front Differential Capacity275 ml (9.3 fl oz)**Coolant Capacity(425)2.9 L (3.0 U.S. qt)Engine Oil Capacity3.3 L (3.5 U.S. qt) - Overhaul 2.8 L (3.0 U.S. qt) - ChangeGasoline (recommended)87 Octane Regular UnleadedEngine Oil (recommended)Arctic Cat ACX All Weather (Syn- thetic)Differential/Rear Drive Lubri- cantSAE Approved 80W-90 HypoidDrive Belt Width (minimum)28.5 mm (1.12 in.)Brake FluidDOT 4Taillight/Brakelight12V/5W/21W	Tire Inflation Pressure		27.6 kPa (4 psi)				
Rear Drive Capacity250 ml (8.5 fl oz)*Front Differential Capacity275 ml (9.3 fl oz)**Coolant Capacity(425)2.9 L (3.0 U.S. qt)Engine Oil Capacity3.3 L (3.5 U.S. qt) - Overhaul 2.8 L (3.0 U.S. qt) - ChangeGasoline (recommended)87 Octane Regular UnleadedEngine Oil (recommended)Arctic Cat ACX All Weather (Syn- thetic)Differential/Rear Drive Lubri- cantSAE Approved 80W-90 HypoidDrive Belt Width (minimum)28.5 mm (1.12 in.)Brake FluidDOT 4Taillight/Brakelight12V/5W/21W		MISC	ELLANY				
Front Differential Capacity275 ml (9.3 fl oz)**Coolant Capacity(425)2.9 L (3.0 U.S. qt)Engine Oil Capacity3.3 L (3.5 U.S. qt) - Overhaul 2.8 L (3.0 U.S. qt) - ChangeGasoline (recommended)87 Octane Regular UnleadedEngine Oil (recommended)Arctic Cat ACX All Weather (Synthetic)Differential/Rear Drive LubricantSAE Approved 80W-90 HypoidDrive Belt Width (minimum)28.5 mm (1.12 in.)Brake FluidDOT 4Taillight/Brakelight12V/5W/21W	Gas Tank Capacity (rate	ed)	15.1 L (4.0 U.S. gal.)				
Coolant Capacity(425)2.9 L (3.0 U.S. qt)Engine Oil Capacity3.3 L (3.5 U.S. qt) - Overhaul 2.8 L (3.0 U.S. qt) - ChangeGasoline (recommended)87 Octane Regular UnleadedEngine Oil (recommended)Arctic Cat ACX All Weather (Synthetic)Differential/Rear Drive LubricantSAE Approved 80W-90 HypoidDrive Belt Width (minimum)28.5 mm (1.12 in.)Brake FluidDOT 4Taillight/Brakelight12V/5W/21W	Rear Drive Capacity		250 ml (8.5 fl oz)*				
Engine Oil Capacity3.3 L (3.5 U.S. qt) - Overhaul 2.8 L (3.0 U.S. qt) - ChangeGasoline (recommended)87 Octane Regular UnleadedEngine Oil (recommended)Arctic Cat ACX All Weather (Synthetic)Differential/Rear Drive LubricantSAE Approved 80W-90 HypoidDrive Belt Width (minimum)28.5 mm (1.12 in.)Brake FluidDOT 4Taillight/Brakelight12V/5W/21W	Front Differential Capacity		275 ml (9.3 fl oz)**				
2.8 L (3.0 U.S. qt) - ChangeGasoline (recommended)87 Octane Regular UnleadedEngine Oil (recommended)Arctic Cat ACX All Weather (Synthetic)Differential/Rear Drive LubricantSAE Approved 80W-90 HypoidDrive Belt Width (minimum)28.5 mm (1.12 in.)Brake FluidDOT 4Taillight/Brakelight12V/5W/21W	Coolant Capacity (425)		2.9 L (3.0 U.S. qt)				
Engine Oil (recommended)Arctic Cat ACX All Weather (Synthetic)Differential/Rear Drive LubricantSAE Approved 80W-90 HypoidDrive Belt Width (minimum)28.5 mm (1.12 in.)Brake FluidDOT 4Taillight/Brakelight12V/5W/21W	Engine Oil Capacity		3.3 L (3.5 U.S. qt) - Overhaul 2.8 L (3.0 U.S. qt) - Change				
thetic)Differential/Rear Drive Lubri- cantSAE Approved 80W-90 HypoidDrive Belt Width (minimum)28.5 mm (1.12 in.)Brake FluidDOT 4Taillight/Brakelight12V/5W/21W	Gasoline (recommended)		87 Octane Regular Unleaded				
cantProvide a strain of the strai	Engine Oil (recommended)						
Brake Fluid DOT 4 Taillight/Brakelight 12V/5W/21W			SAE Approved 80W-90 Hypoid				
Taillight/Brakelight 12V/5W/21W	Drive Belt Width (minimum)		28.5 mm (1.12 in.)				
	Brake Fluid		DOT 4				
Headlight 12V/35W (4)	Taillight/Brakelight		12V/5W/21W				
	Headlight		12V/35W (4)				

Specifications subject to change without notice. * One inch below plug threads. ** At the plug threads.

Torque Specifications

EXHAUST	EXHAUST COMPONENTS							
Part Part Bolted To		Τοι	que					
Fail	Fart Bolleu To	ft-lb	N-m					
Exhaust Pipe	Engine	20	27					
Spark Arrester	Muffler	48	5.5					
		in						
		lb						
ELECTRICA	L COMPONENTS							
Coil	Frame	12	16					
Starter Motor Positive Cable	Starter Motor	8	11					
STEERING	COMPONENTS							
Steering Post Bearing Housing	Frame	20	27					
Handlebar Cap	Steering Post	20	27					
Lower Steering Post Bearing Cap Screw	Steering Post	40	54					
Tie Rod End**	Steering Post Arm	30	41					
CHASSIS	COMPONENTS	·						
Footrest	Frame (8 mm)	20	27					
Bumper	Frame (8 mm)	20	27					

ENGINE/TRANSMISSION						
Part	Part Bolted To	Torque				
Fait	Fart Dolled TO	ft-lb	N-m			
Clutch Shoe**	Crankshaft	147	199			
Clutch Cover/Housing Assembly	Crankcase	8	11			
Left-Side Cover	Crankcase	8	11			
Crankcase Half (6 mm)	Crankcase Half	10	13.5			
Crankcase Half (8 mm)	Crankcase Half	21	28			
Cylinder Nut	Crankcase Half	8	11			
Cylinder Head (Cap Screw)	Crankcase	28	38			
Cylinder Head Nut	Cylinder	20	27			
Cylinder Head (6 mm) (350)	Cylinder	8	11			
Cylinder Head (8 mm) (350)	Cylinder	20	27			
Cylinder Head Cover (350)	Cylinder Head	8	11			
Oil Pump Drive Gear**	Crankshaft	63	86			
Driven Pulley Nut**	Driveshaft	147	199			
Ground Cable	Engine	8	11			
Output Shaft Flange Nut (350)	Output Shaft	74	101			
Magneto Rotor Nut	Crankshaft	107	146			
Cam Sprocket**	Camshaft	11	15			
V-Belt Cover	Crankcase	8	11			
Valve Adjuster Jam Nut	Valve Adjuster	7	9.5			
Starter Motor	Crankcase	8	11			
Valve Cover	Crankcase	8	11			
Oil Fitting	Engine	8	11			
Oil Pump*	Crankcase	8	11			
Movable Drive Face Nut**	Clutch Shaft	147	199			
Oil Cooler Hose Clamps	Engine/Oil Cooler	30 inlb	3.4			
Output Shaft Flange Nut (425)	Output Shaft	59	80			
Cam Chain Tensioner Guide (425)	Cylinder	11	15			
Tappet Cover (425)	Valve Cover	8	11			
Cam Chain Tensioner (425)	Cylinder	10	13.5			
Magneto Cover (425)	Crankcase	8	11			
Rear Driveline (425)	Output Drive Flange	20	27			
Water Pump Cover/Housing (425)	Magneto Cover	8	11			
Water Pump Drive Gear (425) SUSPENSION CO	Crankshaft MPONENTS (From	28 nt)	38			
A-Arm	Frame	35	47			
Knuckle	Ball Joint	35	47			
Shock Absorber	Frame	35	47			
Shock Absorber	Upper A-Arm	35	47			
Knuckle	A-Arm	35	47			
	OMPONENTS (Rea					
Shock Absorber (Upper)	Frame	35	47			
Shock Absorber (Lower)	Lower A-Arm	35	47			
, ,	Frame	35	47			
A-Arm						

* w/Blue Loctite #243 ** w/Red Loctite #271 *** w/Green Loctite #609

Section

Table of Contents



DRIVE TRAIN COMPONENTS					
	Torque				
Part Part Bolted To			N-m		
Engine Mounting Through-Bolt	Frame	38	52		
Front Differential	Frame/Differential Bracket	38	52		
Output Flange	Rear Flange Output Joint	20	27		
Input Shaft Housing	Differential Housing	18	25		
Pinion Housing	Gear Case Housing	18	25		
Differential Housing Cover***	Differential Housing	18	25		
Drive Bevel Gear Nut**	Shaft	59	80		
Driven Bevel Gear Nut**	Driven Shaft	59	80		
Thrust Button	Gear Case Cover	8	11		
Hub Nut	Shaft/Axle (max)	200	272		
Oil Drain Plug	Front Differential/Rear Drive	45 in Ib	5		
Oil Fill Plug	Front Differential/Rear Drive	16	22		
Oil Drain Plug	Engine	20	27		
Rear Drive Input Shaft Hous- ing	Differential Housing	23	31		
Lock Collar	Differential Housing	125	169		
Wheel	Hub	40	54		
Rear Drive Gear Case	Frame	38	52		
Engine Output Flange	Rear Gear Case Input Flange	20	27		
BRAKE	COMPONENTS				
Brake Disc*	Hub	15	20		
Brake Hose	Caliper	20	27		
Brake Hose	Master Cylinder	20	27		
Brake Hose	Auxiliary Brake Cylinder	20	27		
Master Cylinder (Rear)	Frame	8	11		
Master Cylinder Clamp (Front)	Master Cylinder	5.5	8		
Hydraulic Caliper	Knuckle	20	27		
Auxiliary Brake Pedal	Pivot	20	27		

Torque Conversions (ft-lb/N-m)

ft-lb	N-m	ft-lb	N-m	ft-lb	N-m	ft-lb	N-m
1	1.4	26	35.4	51	69.4	76	103.4
2	2.7	27	36.7	52	70.7	77	104.7
3	4.1	28	38.1	53	72.1	78	106.1
4	5.4	29	39.4	54	73.4	79	107.4
5	6.8	30	40.8	55	74.8	80	108.8
6	8.2	31	42.2	56	76.2	81	110.2
7	9.5	32	43.5	57	77.5	82	111.5
8	10.9	33	44.9	58	78.9	83	112.9
9	12.2	34	46.2	59	80.2	84	114.2
10	13.6	35	47.6	60	81.6	85	115.6
11	15	36	49	61	83	86	117
12	16.3	37	50.3	62	84.3	87	118.3
13	17.7	38	51.7	63	85.7	88	119.7
14	19	39	53	64	87	89	121
15	20.4	40	54.4	65	88.4	90	122.4
16	21.8	41	55.8	66	89.8	91	123.8
17	23.1	42	57.1	67	91.1	92	125.1
18	24.5	43	58.5	68	92.5	93	126.5
19	25.8	44	59.8	69	93.8	94	127.8
20	27.2	45	61.2	70	95.2	95	129.2
21	28.6	46	62.6	71	96.6	96	130.6
22	29.9	47	63.9	72	97.9	97	131.9
23	31.3	48	65.3	73	99.3	98	133.3
24	32.6	49	66.6	74	100.6	99	134.6
25	34	50	68	75	102	100	136

* w/Blue Loctite #243 ** w/Red Loctite #271 *** w/Green Loctite #609





Section **Table of Contents**

Break-In Procedure

A new ATV and an overhauled ATV engine require a "break-in" period. The first 10 hours (or 200 miles) are most critical to the life of this ATV. Proper operation during this break-in period will help assure maximum life and performance from the ATV.

During the first 10 hours (or 200 miles) of operation, always use less than 1/2 throttle. Varying the engine RPM during the break-in period allows the components to "load" (aiding the mating process) and then "unload" (allowing components to cool). Although it is essential to place some stress on the engine components during break-in, care should be taken not to overload the engine too often. Do not pull a trailer or carry heavy loads during the 10-hour break-in period.

When the engine starts, allow it to warm up properly. Idle the engine several minutes until the engine has reached normal operating temperature. Do not idle the engine for excessively long periods of time.

During the break-in period, a maximum of 1/2 throttle is recommended; however, brief full-throttle accelerations and variations in driving speeds contribute to good engine break-in.

After the completion of the break-in period, the engine oil and oil filter should be changed. Other maintenance after break-in should include checking of all prescribed adjustments and tightening of all fasteners.

Gasoline - Oil -Lubricant

RECOMMENDED GASOLINE

The recommended gasoline to use is 87 minimum octane regular unleaded. In many areas, oxygenates (either ethanol or MTBE) are added to the gasoline. Oxygenated gasolines containing up to 10% ethanol, 5% methane, or 5% MTBE are acceptable gasolines.

When using ethanol blended gasoline, it is not necessary to add a gasoline antifreeze since ethanol will prevent the accumulation of moisture in the fuel system.

CAUTION

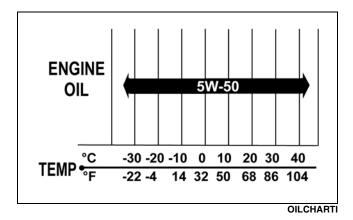
Do not use white gas. Only Arctic Cat approved gasoline additives should be used.

RECOMMENDED ENGINE/ TRANSMISSION OIL

CAUTION

Any oil used in place of the recommended oil could cause serious engine damage. Do not use oils which contain graphite or molybdenum additives. These oils can adversely affect clutch operation. Also, not recommended are racing, vegetable, non-detergent, and castor-based oils.

The recommended oil to use is Arctic Cat ACX All Weather synthetic engine oil, which has been specifically formulated for use in this Arctic Cat engine. Although Arctic Cat ACX All Weather synthetic engine oil is the only oil recommended for use in this engine, use of any API certified SM 5W-50 oil is acceptable.



RECOMMENDED FRONT DIFFERENTIAL/REAR DRIVE LUBRICANT

The recommended lubricant is Arctic Cat Gear Lube or an equivalent gear lube which is SAE approved 80W-90 hypoid. This lubricant meets all of the lubrication requirements of the Arctic Cat ATV front differentials and rear drives.

CAUTION

Any lubricant used in place of the recommended lubricant could cause serious front differential/rear drive damage.

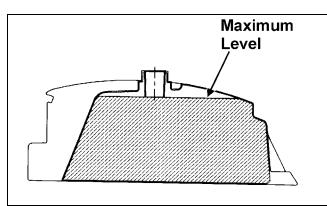
FILLING GAS TANK

Always fill the gas tank in a well-ventilated area. Never add fuel to the ATV gas tank near any open flames or with the engine running. DO NOT SMOKE while filling the gas tank.

Since gasoline expands as its temperature rises, the gas tank must be filled to its rated capacity only. Expansion room must be maintained in the tank particularly if the tank is filled with cold gasoline and then moved to a warm area.







ATV0049B

Do not overflow gasoline when filling the gas tank. A fire hazard could materialize. Always allow the engine to cool before filling the gas tank.

Tighten the gas tank cap securely after filling the tank.

Do not over-fill the gas tank.

Genuine Parts

When replacement of parts is necessary, use only genuine Arctic Cat ATV parts. They are precision-made to ensure high quality and correct fit. Refer to the Illustrated Parts Manual for the correct part number, quantity, and description.

Preparation For Storage

CAUTION

Prior to storing the ATV, it must be properly serviced to prevent rusting and component deterioration.

Arctic Cat recommends the following procedure to prepare the ATV for storage.

- 1. Clean the seat cushion (cover and base) with a damp cloth and allow it to dry.
- 2. Clean the ATV thoroughly by washing dirt, oil, grass, and other foreign matter from the entire ATV. Allow the ATV to dry thoroughly. DO NOT get water into any part of the engine or air intake.

3. Either drain the gas tank or add Fuel Stabilizer to the gas in the gas tank. Remove the air filter housing cover and air filter. Start the engine and allow it to idle; then using Arctic Cat Engine Storage Preserver, rapidly inject the preserver into the air filter opening for a period of 10 to 20 seconds; then stop the engine. Install the air filter and housing cover.

CAUTION

If the interior of the air filter housing is dirty, clean the area before starting the engine.

- 4. On the 350, drain the carburetor float chamber.
- 5. Plug the exhaust outlet on the muffler with a clean cloth.
- 6. Apply light oil to the upper steering post bushing and plungers of the shock absorbers.
- 7. Tighten all nuts, bolts, cap screws, and screws. Make sure rivets holding components together are tight. Replace all loose rivets. Care must be taken that all calibrated nuts, cap screws, and bolts are tightened to specifications.
- 8. On the 425, fill the cooling system to the bottom of the stand pipe in the radiator neck with properly mixed coolant.
- 9. On the 350, turn the gas tank valve to the OFF position.
- 10. Disconnect the battery cables; then remove the battery, clean the battery posts and cables, and store in a clean, dry area.
- 11. Store the ATV indoors in a level position.

CAUTION

Avoid storing outside in direct sunlight and avoid using a plastic cover as moisture will collect on the ATV causing rusting.

Preparation After Storage

Taking the ATV out of storage and correctly preparing it will assure many miles and hours of trouble-free riding. Arctic Cat recommends the following procedure to prepare the ATV.

- 1. Clean the ATV thoroughly.
- 2. Clean the engine. Remove the cloth from the muffler.
- 3. Check all control cables for signs of wear or fraying. Replace if necessary.
- 4. Change the engine/transmission oil and filter. www.mymowerparts.com



Section Table of Contents

- 5. On the 425, check the coolant level and add properly mixed coolant as necessary.
- 6. Charge the battery; then install. Connect the battery cables.

CAUTION

The ignition switch must be in the OFF position prior to installing the battery or damage may occur to the ignition system.

CAUTION

Connect the positive battery cable first; then the negative.

- 6. Check the entire brake systems (fluid level, pads, etc.), all controls, lights, and headlight aim; adjust or replace as necessary.
- 7. Tighten all nuts, bolts, cap screws, and screws making sure all calibrated nuts, cap screws, and bolts are tightened to specifications.
- 8. Check tire pressure. Inflate to recommended pressure as necessary.
- 9. Make sure the steering moves freely and does not bind.
- 10. Check the spark plug. Clean or replace as necessary.





SECTION 2 -PERIODIC MAINTENANCE

TABLE OF CONTENTS

Periodic Maintenance Chart	2-2
Periodic Maintenance	2-2
Lubrication Points	2-3
Air Filter	
Valve/Tappet Clearance	
Testing Engine Compression	
Spark Plug	
Liquid Cooling System (425)	
Muffler/Spark Arrester	
Adjusting Throttle Cable	
Adjusting Engine RPM (Idle)	
Engine/Transmission Oil - Filter	
Front Differential/Rear Drive Lubricant	
Tires	
Driveshaft/Coupling	
Nuts/Bolts/Cap Screws	
Ignition Timing	
Lights	
Shift Lever	
Frame/Welds/Racks	
Hydraulic Brake Systems	
Burnishing Brake Pads	
Cpadits.g/Baplacing V-Belt	



Arctic Cat 2011 350 425 Service ManuArctic Cat Parts Call 606-678-9623 or 606-561-4983 Full download: http://manualplace.com/download/arctic-cat-2011-350-425-service-manual/

Periodic Maintenance

This section has been organized into sub-sections which show common maintenance procedures for the Arctic Cat ATV.

SPECIAL TOOLS

A number of special tools must be available to the technician when performing service procedures in this section. Refer to the current Special Tools Catalog for the appropriate tool description.

Description	p/n
Compression Tester Kit	0444-213
Oil Filter Wrench	0644-389
Tachometer	0644-275
Timing Light	0644-296
Valve Clearance Adjuster	0444-078

■NOTE: Special tools are available from the Arctic Cat Service Parts Department.

Periodic Maintenance Chart

Item	Initial Service After Break-In (First Mo or 100 Mi)	Every Day	Every Month or 100 Miles	Every 3 Months or 300 Miles	Every 6 Months or 500 Miles	Every Year or 1500 Miles	As Needed
Battery	1		I				С
Fuses				I			R
Air Filter/Drain Tube	I	I	C*				R
Valve/Tappet Clearance	I				I		А
Engine Compression						I	
Spark Plug	I			I			R (4000 Mi or 18 Mo)
Muffler/Spark Arrester					С		R
Gas/Vent Hoses	I	I					R (2 Yrs)
Throttle Cable	I	I			C-L		A-R
Carburetor Float Chamber (350)				D*			
Engine Idle RPM (350)	I				I		А
Engine-Transmission Oil Level		I					А
Engine-Transmission Oil/Filter	R			R*/R**/R***			
Front Differential/Rear Drive Lubricant	I		I				R (4 Yrs)
Tires/Air Pressure	I	I					R
Steering Components	I	I		I			R
V-Belt	I						R
Suspension (Ball joint boots, drive axle boots front and rear, tie rods, differential and rear drive bellows)	I	I					R
Nuts/Cap Screws/Screws	I		I				А
Ignition Timing						I	
Lights	1	I					R
Switches	I	I					R
Shift Lever					I		A-L
Handlebar Grips		I					R
Handlebar	I	I					R
Gauges/Indicators	I	I					R
Frame/Welds/Racks	1						
Electrical Connections	1						С
Complete Brake System (Hydraulic & Auxiliary)	I	I		С			L-R
Brake Pads	I			l*			R
Brake Fluid	1			I			R (2 Yrs)
Brake Hoses	I			I			R (4 Yrs)
Coolant/Coolant System (425)	I		I				R (2 Yrs)

* Service/Inspect more frequently when operating in adverse conditions. ** When using an API certified SM 5W-50 oil.

*** When using Arctic Cat ACX All Weather synthetic oil oil change interval can be increased to every 1,000 miles or every year.