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Updated 02/2015

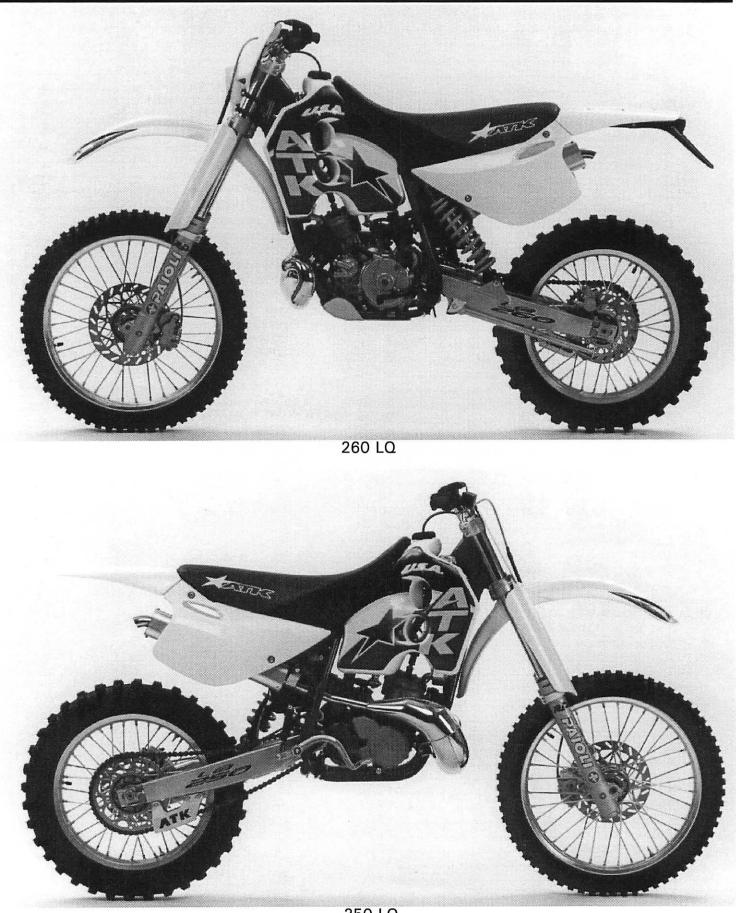


TABLE OF CONTENTS

VIEWS	5
	260 LQ1
	250 LQ1
SPECI	FICATIONS
	General
	Torque/Tool
CONT	ROLS
	Throttle
	Clutch Lever
	Front Brake Lever
	Kill Switch
	Handlebar Adjustment4
	Choke
	Fuel Petcocks
	Fuel Level
	Gear Shifter
	Rear Brake Pedal5
	Exhaust Valve5
	Gearing
	Forks
	Shock
	Rebound
	Preload
DDC DI	
rke-k	DE/BREAK IN8
	Engine and Transmission8
	Brakes
	Suspension8
FUEL/	STARTING PROCEDURE
	Fuel
	Cold Engine
	Warm Engine
MAIN	TENANCE
I.IVALLA	
	Cleanliness
	Periodic Maintenance Chart
	Engine Oil Change
	Clutch Adjustment11
	Ignition
	Drive Chain Tension Check11
	Drive Chain Tension Adjustment12
	Drive Chain 12
	Drive Sprockets 13
	Throttle and Control Levers
	Control Cables
	Air Filter
	Steering Head14
	Spark Plug
SUSPE	NSION
JUJIE	Suspension Adjustment
	Rear Suspension Sag15
	Race Sag
	Free Sag
	Shock Compression Damping
	Shock Rebound Damping16
	Forks
	Compression Damping17
	Rebound Damping17
	Fork Oil Rating
	Fork Oil Level 17
	Effects of Fork Oil Level17

Setting the Fork Oil Level	.18
Changing Fork Oil	.19
BRAKES	
Brake Fluid	
Brake Pads	
Front Brake Pad Replacement	
Front Brake Pad Installation	
Rear Brake Pad Removal	
Rear Brake Pad Installation	
Brake Bleeding	
Brake Rotor Condition	
Brake Rotor Thickness	
Brake Pad and Rotor Deglazing	.22
CARBURETOR	
250 Carburetor Specifications	
Explanation of the Different Jet Systems	
Pilot System	
Pilot Air Screw	
Pilot Jet	
Jet Needle	
Needle 'E'-Clip Position	
Optional Jet Needles	
Throttle Valve (Slide)	
Main Jet	
Float Level Adjustment	
WIRING HARNESS	
260 LQ	
WASHING/STORAGE	
Washing Your Motorcycle	
Motorcycle Storage	
Removing a Motorcycle from Storage	.27







0.44 kg/mm
180 mm
0.42, 0.46 kg/ mm

260 mm (10.4 inches) stainless

220 mm (8.8 inches) stainless

Golden Spectro supreme DOT 4

Brembo single piston

(DOT 5.1 non-silicone specifications)

# **Rear Suspension Specifications**

Fork Springs Oil Level

**Optional Fork Springs** 

	near ouspension opeenieu	
	Туре	Ohlins piggyback damper with a 118 mm stroke
	Travel	330 mm (13.0 inches)
	External Adjustments	Compression, rebound and spring preload
	Standard Compression Setting	15 'clicks' from closed
	Standard Rebound Setting	21 'clicks' from closed
	Standard Spring Preload	10 mm
	Race Sag	95 mm (3.75 inches)
	Shock Spring	6.2 N/ mm
	Optional Springs	6.0, 6.4, 6.6, 6.8 N/ mm
0024	Brake Specifications	
JUZ7	Front Brake	Brembo dual piston

Front Rotor Rear Brake Rear Rotor

**Brake Fluid** 

**Optional Parts** 

### **Driveline Specifications**

Final Drive Ratio	14 - 50
Optional Sprockets, Front	13, 15, 16
Optional Sprockets, Rear	40, 42, 44, 46, 48, 52
Drive Chain	D.I.D. 520 VX 120 o-ring, 114 links

steel

steel

Solid rotors

### **Transmission Ratios**

Primary Drive	25 / 69	2.760
1st	10 / 30	3.000
2nd	14 / 29	2.071
3rd	14 / 23	1.643
4th	15 / 21	1.400
5th	18 / 22	1.222
6th	19/21	1.105

# ATK 250/260

### **Engine Specifications**

**Engine Type** 

Displacement **Compression Ratio** Carburetion Ignition (Output) Spark Plug Transmission Starting System **Fuel Capacity Fuel Requirement** Fuel/ Oil Mixing Ratio **Cylinder Bore** Standard Piston Size Stroke Cylinder to Piston Skirt Clearance **Transmission Oil** Capacity **Oil Weight** 

# Liquid cooled, counterbalancer, exhaust controlled power valve, two stroke single 250/251 cc 7.04:1 38 mm Mikuni TMX SEM (160 W) NGK B8ES/ NGK BR8ES 6 speed wide ratio Kick 3.1 gal (11.7 liters) 90 + octane unleaded 32:1 - 50:1 67.50/ 67.75 mm 67.45/ 67.70 mm 69.80/ 69.80 mm 0.05 - 0.06 mm (0.0020 - 0.0 inches) 800 cc (8/10 qt) Premium 80w gear oil

### **Motorcycle Specifications**

Wheelbase	1486 mm (58.5 inches)	
Rake (Degrees)/ Trail	26/ 4.1 inches	
Seat Height	945 mm (37.2 inches)	
Ground Clearance	343 mm (13.5 inches)	
Weight(Wet no fuel)	230/ 235 lbs.	
Front Tire	80 / 100 - 21	
Rear Tire	110 / 100 - 18	
Tire Pressure	15 psi front and rear	

### **Front Suspension Specifications**

Туре	Paioli 46 mm conventional forks with internal cartridge system
Travel	284 mm (11.2 inches)
External Adjustments	Compression and rebound
Standard Compression Setting	7 'clicks' from closed
Standard Rebound Setting	4 'clicks' from closed



<b>Torque Sp</b>	ecifications
------------------	--------------

<b>Torque Specifications</b>		Wrench, Spoke	
Fastener	Torque - foot pounds (ft*ibs)	Wrench, Spanner - 45-50	mm
General Specifications(Bol	t thread size, not head size)	Wrench, Torque - Click sty	yle
10 mm Bolts	19 - 25	Pliers	Star
8 mm Bolts	10 - 13.5		Nee
6 mm Bolts	4.5 - 5.5	Llammar Cafe Diastia Lla	Cha
Triple Clamp Pinch Bolts	17	Hammer, Soft - Plastic He	au
Steering Stem Nut	70	Drift Punch	
Handlebar Clamp Bolts	14	Tire Pressure Gauge	
Front Axle	36	Feeler Gauge Set	
Front Axle Fork Pinch	9	Vernier Caliper	
Bolts		Steel Ruler	
Rear Axle Nut	70	Tape Measure	
Top and Bottom Shock Mounting Bolts	30	Chain Breaker	
Front Caliper Bolts	17	Cable Lubricator	
Front Brake Rotor Bolts	9	Basic Supply List	
Rear Brake Rotor Bolts	14	Green Locktite	
Rear Sprocket Bolts	20	Blue Locktite	
Brake Pedal Pivot Bolt	15	Duct Tape	
Engine Specifications		Assembly Grease	
Head bolts	15	Bearing Grease	
Cylinder	15	WD40	
Exhaust Flange Bolts	15		
Clutch Nut	80	Contact Cleaner	
Balance Shaft Nut	50	Cable Lubricant	
Primary Drive Crank Nut	50	Shop Rags	
Magneto Nut	50		

Standard Needle - Nose Channel - Lock

# **Basic Tool List**

Sockets, 3/8 inch Drive	6, 8, 10, 12, 14, 17, 19 mm 2 inch, 4 inch extensions Universal joint 21 mm spark plug	
Screwdrivers	Flat blade - long, short Phillips -  #1, #2	
Wrench, Large Adjustable		
Wrenches, Open/Box End	6, 8, 10, 11, 12, 14, 17, 19, 21, 22, 24, 30, 34 mm	
Wrenches, Allen(Hex)	3, 4, 5, 6, 8	



It is important to take the time to become familiar with the various controls and their adjustments prior to riding the motorcycle.

# Throttle (Figure 1.1)

The throttle should have a small amount of freeplay in the cable. If the throttle is adjusted too tight, the machine may not idle correctly and could be very dangerous to ride. To adjust the throttle freeplay, slide boot back, loosen the lock nut by hand, and turn the adjuster screw by hand. The throttle should have a few degrees of freeplay so the throttle cable is not stretched taught. After adjustment is complete, tighten the lock nut against the throttle housing.

Note: If the adjuster at the throttle is at its limits, a similar adjuster exists on the carburetor itself, and can be used to control the free play.

# Clutch Lever (Figure 1.2)

The clutch lever should be adjusted to provide about 3 to 6 mm (1/8 to I/4 inch) of freeplay at its ball end. To adjust the clutch freeplay, slide boot back, loosen the lock nut by hand, and turn the adjuster screw by hand. After adjustment is complete, tighten the lock nut against the clutch perch.

# Front Brake Lever (Figure 1.1)

The front brake lever has a screw type adjuster knob on its rear side that allows adjustment of the lever's engagement point. Adjust the engagement point to your preference.

# Kill Switch (Figure 1.2)

This button is depressed to stop the engine. Hold the button down until the engine has stopped.

# Handlebar Adjustment (Figure 1.3)

The Answer ProTaper handlebar can be adjusted for height and reach. To adjust the handlebar, loosen the handlebar clamp screws using a 5 mm Allen wrench. Rotate the handlebar rearward to lower its height and reduce the reach. To raise the handlebar and increase the reach, rotate the handlebar forward. The handlebar has a scale for a reference. After adjustment is complete, tighten the screws and torque them to 14 foot pounds.

# Choke

The choke is turned on by pulling the choke into the up position. It is turned off by pressing the choke into the down position. Figure 1.4 shows the choke in the "on" position.

# **Fuel Petcocks**

This motorcycle has two fuel petcocks, one on each side of the fuel tank. Both petcocks should be turned on before riding. Each fuel petcock has three positions: ON / OFF / RESERVE. For normal use the bike should be ridden with the petcock in the ON position. This leaves the reserve position for emergency use only. It is good practice to turn the petcock to its OFF position when the motorcycle is not in use. Figure 1.5 shows the petcock in the ON position.

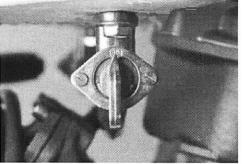
Figure 1.1

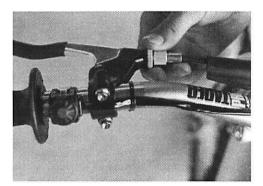
Figure 1.2

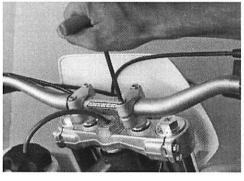
Figure 1.3

Figure 1.4

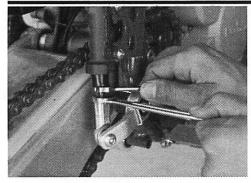














When filling your motorcycle up with fuel, do not top off the fuel tank. Leave about two inches of space below the top of the fuel filler. This allows the fuel gasses to expand during temperature increases without the risk of fuel overflowing.

#### **Gear Shifter**

The gear shifter has the following gear pattern: DOWN 1-N-2-3-4-5-6  $\ensuremath{\mathsf{UP}}$ 

#### Rear Brake Pedal (Figure 1.6)

The static height of the rear brake pedal should be adjusted to rider preference while wearing your boots. To adjust the pedal's height, loosen the 12 mm lock nut above the hiem joint, then turn the adjuster screw using an 10 mm end wrench. Check the position by sitting on the motorcycle before resetting the lock nut.

#### Exhaust Valve (Figure 1.7)

The exhaust control valve on the LQ engines is operated by exhaust pressure and a spring. A small hole in the roof of the exhaust port leads to a high temperature rubber diaphragm that raises the exhaust valve for increased power at higher engine revolutions; a coil spring on the outside front of the diaphragm closes the valve, and it also effects when the exhaust valve opens. The engine speed at which the exhaust valve opens can be varied by adjusting the preload on the spring with the red plastic screw located in the middle of the exhaust valve cover. For initial testing, turn the red screw two full turns in either direction from its standard position (the top of the adjuster screw flush with the cover). Turning the screw adjuster clockwise (into the cover), increases the spring pressure and results in the valve opening at a higher rpm. Turning the screw counterclockwise (out of the cover), lets the valve open at a lower engine speed. After the initial experiment with valve adjustments, take the time to fine-tune the adjuster to your riding style and riding conditions.

Note: Do not exceed two turns in either direction from a flush starting point.

Figure 1.7

Figure 1.6



	Gearing Chart	
Countershaft	Rear Sprocket	Sprocket Gear
Sprocket		Ratio
14-T	44-T	3.14:1
14-T	46-T	3.29:1
14-T	48-T	3.43:1
14-T	50-T	3:57:1
14-T	52-T	3:71:1
15-T	40-T	2.67:1
15-T	42-T	2.80:1
15-T	44-T	2.93:1
15-T	46-T	3.07:1
15-T	48-T	3.20:1
		na may 1 fair base for the car in ch
16-T	40-T	2.50:1
16-T	42-T	2.63:1
16-T	44-T	2.75:1
16-T	46-T	2.88:1
16-T	48-T	3.00:1

# Gearing (Figure 1.8)

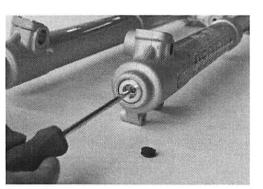
The final drive gearing was carefully chosen for your ATK 250/ 260 to provide maximum performance in a variety of riding conditions. Should your personal preference or riding conditions require a gearing change, use the GEARING CHART as a guide. All of the gearing combinations can be purchased from your local ATK Dealer. The lower the sprocket gear ratio, the higher the speed of the motorcycle. For example, if you feel as if you are shifting the motorcycle too often, it may be advisable to go smaller on the rear sprocket by two teeth ( $50 \rightarrow 48$ ). If the gearing seems too 'tall' and you would prefer a bit more acceleration, try increasing the number of teeth on the rear sprocket ( $50 \rightarrow 52$ ).

Note: Changing the sprocket size may require a longer or shorter chain, depending on how drastic the change in gearing.

#### Forks (Figure 1.9)

The Paioli forks, on your ATK, have been thoroughly tested to perform exceptionally in a variety of riding conditions. There are only two external adjustments that can be made to the forks. On the bottom of each fork leg, underneath the rubber cap, is the compression adjuster. It can be adjusted with a flat blade screwdriver. To ensure the best performance of the forks, each fork should be adjusted to the same setting. From the factory, the forks should be set to 7 'clicks' from closed (turn adjuster all of the way clockwise until resistance is felt, then turn back 7 'clicks'). Turning this adjuster clockwise increases the compression damping, and turn it counterclockwise decreases the compression damping. Make sure to replace the rubber plug in the bottom of the fork leg.

The rebound adjusters are on the top of the fork legs. They must also be adjusted to the same setting for each leg. From the factory, the rebound adjusters are set to 4 'clicks' from closed. Turning the adjuster clockwise increases the rebound damping, and turning it counterclockwise decreases the rebound damping. (Figure 1.10)



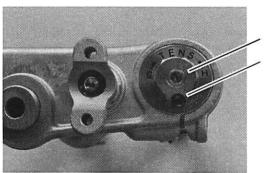


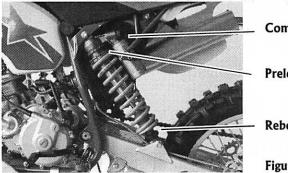
Figure 1.9

Figure 1.8

Rebound Pressure Release

Figure 1.10





Compression

Preload

Rebound

Figure 1.11

There is also a pressure release valve on the top of each fork leg. With the motorcycle on a stand unscrew this valve after each ride to allow the built up air in each fork leg to escape. (Figure 1.10)

For specific information about suspension set up and maintenance, please refer to chapter 5 "Suspension setup".

#### Shock

The Ohlins shock was designed and tested specifically for the ATK two stroke line of motorcycles. It is an extremely high performance shock absorber designed to provide the best combination of low speed compliance and high speed bottoming resistance. This Ohlins shock absorber has three external adjustments.

#### Compression (Figure 1.11)

The compression adjuster is located on the top of the shock between the shock reservoir and the main shock body. To adjust the compression, the left side panel of the motorcycle must be removed. The stock setting for the compression is 15 'clicks' from closed (full clockwise). Adjusting the compression clockwise increases the compression damping, while adjusting it counterclockwise decreases the compression damping.

### Rebound (Figure 1.11)

The rebound adjuster is located on the shaft of the shock near the bottom shock mount. The stock setting for the rebound is 21 'clicks' from closed (full clockwise). Adjusting the rebound clockwise increases the compression damping, while adjusting it counterclockwise decreases the rebound damping.

### Preload (Figure 1.11)

With the side panel removed, it is possible to adjust the shock spring preload by using a spanner wrench, or a hammer with a punch. Place the motorcycle on a stand to raise the rear wheel off of the ground. Loosen the jam nut (the top ring of the two rings that are touching). Increase or decrease the preload by rotating the spanner nut. Tighten the jam nut

For specific information about suspension set up and maintenance, please refer to chapter 5 "Suspension setup". **BREAK IN/STARTING PROCEDURE** 

# PRE-RIDE

The following inspection MUST be performed prior to each riding session:

- A thorough "walk around" of the motorcycle for visible signs of loose, broken or worn parts, nuts and bolts, tires, wheel hubs, spokes etc.
- An in-depth check of the following components using the proper tools, equipment and knowledge to perform the job.
- Engine oil level.
- Engine for oil leaks and/or case damage.
- The smooth and effective operation of the throttle, clutch, front brake, rear brake, and kill button.
- Steering smoothness and steering head bearings for proper adjustment.
- Handlebars for proper adjustment and tightness.
- Control cable routings for binding or interference with the bike's steering and operation.
- Brake pads and brake rotors for damage or wear.
- Brake fluid levels and the hydraulic hoses for damage and their attachment bolts for tightness.
- Tire condition and inflation.
- Spoke condition and tightness.
- Wheel hubs and rims for cracks or damage.
- Suspension components (shock, forks, triple clamps) for signs of oil leakage, crash damage, and general integrity.
- Exhaust system for cracks, damage and mounting hardware tightness and condition.
- Front and rear axles tightness.
- Swingarm pivot nuts for proper tightness.
- Drive chain, sprockets, chain rollers and chain rub pad for wear and/or damage.
- Check the condition of the front and rear wheel bearings by trying to rock the wheel assembly. There should be no
  noticeable looseness or rocking when the bearings are in good condition.
- Fuel tank, fuel cap, fuel petcock and fuel lines for leaks and/or damage.
- Carburetor clamps for tightness and the carburetor for leakage.

NOTE: If any of the above checks show a need for attention, perform the necessary repair/replacement/adjustment prior to riding the motorcycle.

# **BREAK IN**

Taking the time to properly break in your new ATK two stroke motorcycle will reward you with a bike that provides maximum performance and life. It is important that the motorcycle is not ridden in any extreme circumstances during this break in period. Riding gently for the first few hundred miles will provide less maintenance worries over the motorcycles' lifetime.

#### **Engine and Transmission**

ATK's two stroke engines require a 150 mile break in period. The most important thing to remember when breaking in your new ATK two stroke motorcycle is to stay away from deep sand, high speed straights, and any riding situation where the engine is required to run at full power or a steady rpm for an extended amount of time. During the break in period vary the throttle setting often and shift the transmission carefully. Let the engine cool for 5 minutes after every hour of use during the first 50 miles of break in. The engine can be used more aggressively after the first 50 miles of break in, but the most aggressive riding should be avoided during the first 100 miles of use. Change the transmission oil after the first ride.

#### Brakes

The Brembo brakes on your new ATK will provide superior stopping power and longevity if you apply the brakes lightly, allowing for a cooling period, during the first hour of operation. This ensures the brake pads and stainless steel brake rotors seat properly without glazing. Your reward for taking the time to properly break in the motorcycle's brakes will be stronger, longer lasting brake components.

#### Suspension

Referring to the suspension setup section, take the time to set the rear suspension's sag to 95 mm (3.75 inches) and the shock and fork damper adjustments prior to riding your new motorcycle. It will require one or two rides before the suspension seals and sliding surfaces break in enough to allow the user to adjust the suspension to their preferences. After two rides, reset the shock preload (the shock spring actually breaks in and needs adjustment to achieve the same sag), and experiment with the fork and shock compression and rebound adjuster until the desired ride settings are achieved.



Recommended fuel: Premium unleaded, 90 + octane Recommended pre-mix oil: Golden Spectro 2-cycle engine oil Recommended ratio: 32:1 to 50:1

Pre-mixing your fuel to the proper ratio is essential for durability and long life for your ATK engine. ATK's R&D department has used Golden Spectro oil mixed at a ratio of 53:1 for the past five years with excellent results. The easiest way to mix the oil to the proper ratio is to empty a 12 ounce bottle of Golden Spectro into a five gallon fuel can, and then fill the can. This ensures a 53:1 ratio in every can.

Make sure the gasoline pre-mix is mixed thoroughly before using in your motorcycle. Do not use any pre-mix fuel older than about six weeks.

On long rides where filling the motorcycle at a gas station may be necessary, fill the fuel tank first with fuel, and then add the oil second. This prevents the oil from going directly to the carburetor and causing a fouled spark plug.

# STARTING PROCEDURE

### **Cold Engine**

- 1. Turn the fuel petcocks to their ON (vertical) position.
- 2. Position the choke control to its ON (up) position.
- 3. Kick over engine quickly with throttle closed.
- 4. If the engine does not start, repeat step 3 with throttle slightly open..
- 5. After the engine warms up, return the choke control to its OFF (down) position.

# Warm Engine:

Kick over engine quickly with throttle opened about 1/8 to 1/4 turn.



# Cleanliness

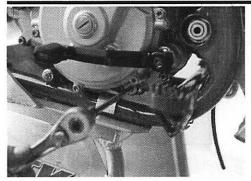
When doing maintenance on your ATK two stroke, it is very important to work on the motorcycle when it is completely clean. This makes the work more enjoyable and prevents dirt and other debris from contaminating the various motorcycle components. Refer to WASHING/STORAGE for motorcycle washing instructions.

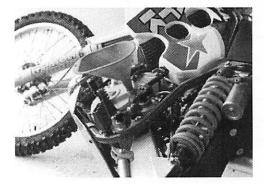
#### **Periodic Maintenance Chart**

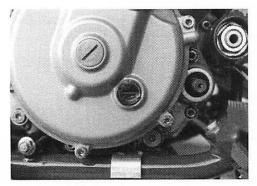
Key: I - Inspect L - Lubricate R - Replace C - Clean A - Adjust

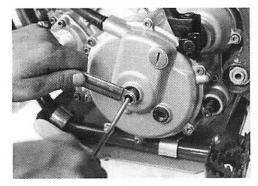
ltem	After each ride	Every Year
Spark plug	1	R
Drive chain and sprockets	I-L	
Chain rollers	1	
Swingarm rub pad	1	
Chain guide block	Į	
Transmission oil	R, 20 hrs	
Air filter	I-C-L	R
Coolant	1	R
Control cables and levers	I-L-A	
Throttle		I-C-L-A
Brake fluid	1	R
Brake pads	1	
Brake rotors, calipers, and hoses	1	
Brake system operation	1	I-A
Forks	1	
Fork oil		R, 20 hrs
Shock	1	
Shock oil		R
Frame	1	
Swingarm	1	
Swingarm lubrication	Not Required	
Steering head adjustment	1	I-L-A
All nuts and bolts	I-A	
Tire condition and inflation	I-A	
Spokes, hubs, and rims	1	
Piston and rings		I-R
Piston pin, rod top bearing		I-R
Exhaust power valve		I-C
Exhaust system	1	
Silencer packing		R
Carburetor		I-C













#### Engine Oil Change

After the engine break in period, engine oil should be changed every 2 rides. Oil type: Any high quality transmision lubricant. Capacity: 0.80 quarts Oil Change: 100 miles

- Remove the oil drain plug under the lower rear of the clutch cover (under the shift lever) using a 6 mm Allen wrench. (Figure 4.1)
- 2. Drain the oil into a container.
- Clean any debris from the magnet on the drain plug.
   Inspect the fiber washer on the drain plug, replace if
- damaged
- 5. Replace drain plug.
- 6. Turn fuel petcocks to OFF
- 7. Lay motorcycle on left side.
- 8. Remove top clutch cover plug.
- Pour about 8/10 of a quart into hole in cover. (Figure 4.2)
- 10. Replace plug and stand motorcycle vertical.
- 11. Oil should cover approximately  $\frac{1}{2}$  of sight glass on clutch cover. (Figure 4.3)

Figure 4.2

Figure 4.3

Figure 4.1

### Clutch Adjustment

If the clutch can no longer be adjusted at the clutch lever, it can be adjusted at the clutch in the engine case.

### Note: It is very important that the clutch is adjusted properly at the engine. If the clutch is adjusted improperly, the life of the clutch will be severely limited.

- Adjust lever to loosest position by turning the adjustment screw completely clockwise.
- 2. Remove the center adjustment cover on the engine.
- Using the clutch adjustment tool included in the tool kit and a flat blade screwdriver, loosen the 11 mm adjustment screw. (Figure 4.4)
- Turn the adjustment screw fully inwards (clockwise) until a slight resistance is felt, then counterclockwise by 1/2 turn.
- 5. Adjust the clutch lever to the specifications in the Controls section.
- 6. Replace the adjustment cover.

#### Ignition

There are two different ignitions included with the 250/260. The ignition advance depends on the serial number marked on the coil/CDI.

Figure 4.4

Note: The ignition advance is preset at the factory and should require no addition adjustments.

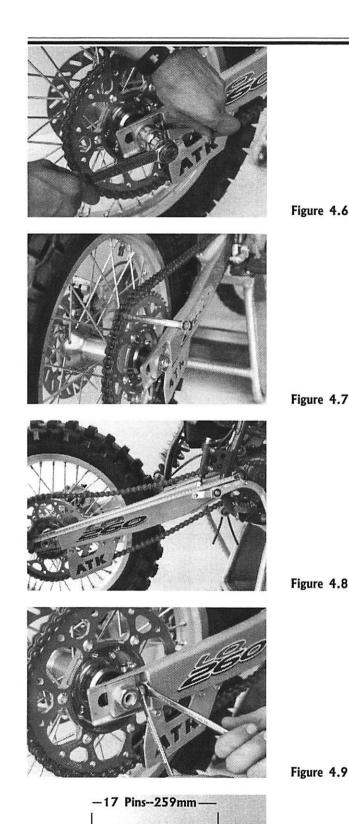
Coil # 10-4 : 2.05 mm BTDC Coil # 6-4 : .05 mm ATDC

### Drive Chain Tension Check (Figure 4.5)

To check or adjust the drive chain, place the motorcycle on a stand with its rear wheel off the ground. Push down on the chain in the area near the end of the chain slider pad. When properly adjusted the chain should become taught and just

Figure 4.5





barely touch the end of the chain slider pad. A premium quality D.I.D. o-ring chain is stock and should stretch very little after the break in period.

#### Drive Chain Tension Adjustment

- 1. Loosen the 30 mm axle nut and the 12 mm locknut on each adjuster screw. (Figure 4.6)
- 2. Turn each adjuster screw an equal amount by counting the number of turns on each side and then recheck the chain play.
- Place an end wrench between the top of the rear sprocket and the chain, rotate the rear wheel backward until the chain becomes taught. This pulls the rear wheel axle block tight against the adjuster screws. (Figure 4.7)
- 4. The best method for checking the rear wheel alignment is to measure the distance from the center of the swingarm pivot to the center of the axle using a tape measure. The rear wheel is aligned when the distance from the swingarm pivot to the rear axle is identical on both sides of the motorcycle. Fine tune the alignment of the rear wheel by turning the adjuster screws. (Figure 4.8)
- Recheck and adjust the chain play a final time, then, with the end wrench still holding tension on the chain, torque the rear axle to 70 foot pounds. Rotate the wheel forward to remove the wrench from the chain/sprocket.
- Ensure that the adjuster screws are tight against the adjuster blocks, then tighten the lock nut with a 12 mm wrench while holding the adjuster screw with a second 12 mm wrench. (Figure 4.9)

# Drive Chain

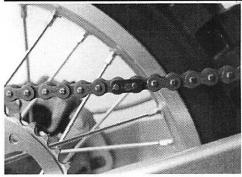
The o-ring chain on your ATK two stroke is lubricated at the factory and does not require initial lubrication. However, a light coat of WD40 after every ride and after each washing will assist in removing water from the chain. Also, an o-ring approved chain lubricant can be used occasionally to keep the chain lubricated. Excess chain lubricating should be avoided because it does not help extend the life of the chain and the motorcycle becomes very messy from the excess chain lubricant.

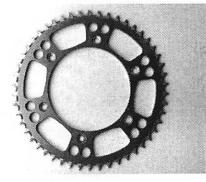
Measuring the distance between pins on the chain provides the easiest method for determining the wear on the chain. If the distance between 17 pins on the chain is greater than 259.0 mm (10.20 inches), the chain should be replaced. (Figure 4.10)

Caution: When replacing the drive chain, point the open end of the master link towards the rear of the motorcycle when viewing the chain on top of the swingarm. The will ensure that the masterlink will not be unfastened if it touches part of the motorcycle or some terrain. (Figure 4.11)

Figure 4.10







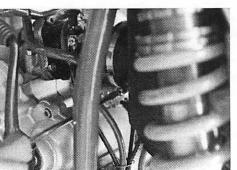


Figure 4.11

Figure 4.12

#### **Drive Sprockets**

When the sprocket teeth start looking thin, bent or curved, replace the sprockets. (Figure 4.12)

Note: Replace the sprockets and chain at the same time. One worn component will make the other components wear much quicker. This ensures the longest possible life out of the new parts.

#### **Throttle and Control Levers**

The throttle should be disassembled, all of its components cleaned and wiped dry. Lubricate the components with a light coating of WD40 or other light oil.

Caution: Do not use any type of grease in the throttle components. Grease can attract dirt and become thick in cold weather. This can cause loss of control of the motorcycle.

The clutch, and front brake levers should be lubricated at their pivot points and where the cable barrels rotate in the levers. A light weight grease or other lubricant may be used. The maintenance schedule for these items should be determined by the amount and severity of the motorcycle's use.

#### Control Cables

All control cables should be lubricated with cable lubricant to keep them working smoothly and easily. Lubricating the cable ends where they pivot in the control levers reduces the effort required to operate the levers. This is easily accomplished by using a cable lubricating tool.

#### Air Filter

A foam air filter is standard equipment on your ATK two stroke. The filter should be checked, cleaned and oiled after every ride. Follow the procedure below:

Figure 4.13

- 1. Remove the motorcycle seat.
- Loosen the air filter hose clamp located at the rear of the carburetor. (Figure 4.13)
- 3. Pull the air filter from the airbox.
- 4. Place a clean rag in the motorcycle intake.
- 5. Clean the filter in cleaning solvent and let it air dry.
- 6. Lubricate the filter with foam filter oil.
- 7. Squeeze the filter gently so that its excess oil can drain off.
- 8. Clean the inside of the airbox thoroughly.
- 9. Install the air filter unit into the airbox and slide the filter nose over the back of the carburetor.
- 10. Tighten the air filter hose clamp.
- 11. Check to make sure that the filter nose is properly installed over the carburetor inlet and that the hose clamp is centered and positioned properly.



# Steering Head

To check the steering head adjustment:

- 1. Place the motorcycle on a bike stand so that its front tire is off the ground.
- 2. Push gently on one end of the handlebar.
- 3. When the steering head is adjusted properly, the handlebar should move all of the way to the steering stop, and not rebound from that position.
- 4. If the handlebar moves all of the way to the steering stop and begins to bounce back towards the center position, the steering head bearings are too loose.
- 5. If the handlebar never reaches the steering stop, the steering head bearings are too tight.

To adjust the steering head bearings:

- 1. Loosen the top triple clamp 10 mm hex head fork pinch bolts. (Figure 4.14)
- 2. Loosen the 34 mm hex fork stem nut. (Figure 4.14)
- To tighten the steering head bearings, tighten the spanner nut under the top triple clamp using a 45 -50 mm spanner wrench. (Figure 4.15)
- To loosen the steering head bearings, loosen the spanner nut under the top triple clamp using a 45 -50 mm spanner wrench.
- 5. Tighten the fork stem nut to 70 foot pounds.

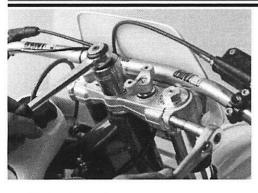
# Caution: Do not over tighten this nut.

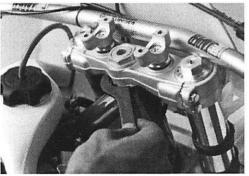
 Torque the top triple clamp 10 mm hex head fork pinch bolts to 17 foot pounds. Recheck the steering head as above, then make sure that the steering moves freely and smoothly from right to left.

# Spark Plug

### Gap: 0.020 inches

To remove the spark plug with the fuel tank off, simply use a 21 mm spark plug socket. To remove the spark plug with the fuel tank on, use a 21 mm box end wrench. (Figure 4.16)





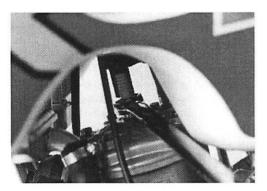


Figure 4.16

Figure 4.14

Figure 4.15



#### Suspension Adjustment

Spending the time to properly understand how your motorcycle's suspension works, and to set it up to your own personal riding preferences will benefit you with greater performance and increased satisfaction.

#### **Rear Suspension Sag**

Setting the rear suspension sag is the first and most important step in adjusting your new ATK's suspension for you. Setting the sag involves measuring two important, and different settings on the motorcycle: Free sag and Race sag. Free sag is the distance the rear suspensions sags under the weight of the motorcycle, and Race sag is the amount of distance the rear suspension sags under the weight of the motorcycle and the rider in full riding gear. Both of these measurements are important to getting your ATK's suspension set up correctly.

Note: Set only the race sag when the motorcycle is new. After riding for a few hours, the suspension will be properly broken in, and the full suspension set up, including free sag, can be performed.

To set the sag, place the motorcycle on a stand that raises the rear tire completely off the floor. Measure the distance from the center of the rear axle to the center of the seat bolt, or the edge of the rear fender where it meets the side number panel. Record this unweighted distance, because it will be the reference for all of your sag calculations. (Figure 5.1)

#### Race Sag: Standard 95 mm (Figure 5.2)

Remove the motorcycle from the stand and place on a flat surface. It is important to set the race sag wearing all of the appropriate riding gear. Sit on the seat in a normal riding position and bounce on the motorcycle a few times to allow the motorcycle to settle to its natural position. Use the motorcycle stand to balance yourself vertically. Remain seated in your normal riding position and have an assistant remeasure the distance between the axle and top measuring point (Figure 5.2). The difference between this value and the unweighted distance is the Race sag.

If adjustment is needed, replace the motorcycle on a stand, remove the left side panel, and loosen the shock spring locking ring (the top ring of the two touching rings) with a spanner wrench or drift punch and hammer. Rotate the lower spring retainer ring using a spanner wrench to change the spring preload. If less sag is needed, turn the adjuster ring toward the spring, if more sag is desired, turn the ring away from the spring. Leave the top locking ring loose, remove the bike from its stand and remeasure the distance while the rider is sitting on the motorcycle. Repeat these steps until the race sag is correct, then tighten the top locking ring against the adjuster ring securely to keep it from moving during motorcycle operation.

#### Free Sag: Acceptable Range: 18 - 25 mm (Figure 5.3)

Once again remove the motorcycle from the stand. With the motorcycle on flat ground compress the rear suspension a few times to allow the suspension to settle to its natural position, then repeat the previous measurement from axle to seat bolt (Figure 5.3). The difference between this value and the unweighted distance is the Free sag.

It is very important to understand what these measurements mean and how they affect the performance of the motorcycle.

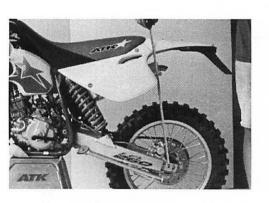






Figure 5.1

Figure 5.2

Figure 5.3



If after setting the Race sag, the Free sag is greater than 25 mm, the spring is too stiff for your weight. If the Free sag is less than 17 mm, the spring is too soft for your weight.

It seems a bit backwards, but these rules are correct. Fortunately, the spring on your ATK allows for a variety of different weight riders, and only a few riders will need to change springs. The stock spring on your motorcycles is a 6.2 N/mm. Your dealer has softer and stiffer springs.

Additionally, the Race sag on the motorcycle can be adjusted slightly to suit the different types of riding conditions. The acceptable range for the Race sag is 90 - 100 mm. If you are anticipating very muddy riding conditions, the Race sag may need to be decreased 1-2 mm (93-94 mm Race sag) to compensate for the additional weight added by the mud. In general, running more Race sag will result in a motorcycle that is more stable, which could be helpful for higher speed desert type riding. Less Race sag will provide quicker steering which may be better for tighter, woods type riding.

# Shock Compression Damping: 30 Positions - Standard setting 15 'clicks' from closed (clockwise)

Compression damping controls the speed at which the shock compresses. The compression adjuster knob is located at the top of the shock reservoir. Each adjustment position is provided with a spring detent that can be felt and heard. To adjust the compression, turn the adjuster clockwise until it stops, counting the number of 'clicks'. This provides a zero point for all further adjustments. Next turn the adjuster counterclockwise to the desired setting by counting the number of 'clicks'. Once you are sure of the starting position of the adjuster, you can adjust the knob from its starting position without having to return the knob to its zero position. Try adjusting the knob only one position at a time. The effects of adjustment are very noticeable from about 12 to 18 'clicks'. Moving the adjuster knob to a lower setting stiffens the ride. Increasing the setting number will soften the ride and make the suspension more compliant over smaller obstacles.

# Shock Rebound Damping: 30 Positions - Standard setting 21 'clicks' from closed (clockwise)

Shock rebound damping controls the speed at which the shock returns to its extended length after being compressed. Rebound damping is adjusted via a knurled rubber ring located just above the lower shock mount. The procedure for setting the rebound adjustment is similar to the compression adjustment. Close the rebound by rotating the adjuster completely clockwise (when viewed from the bottom of the shock) and count the 'clicks'. This provides a zero reference for the position of the current setting. Then rotate the knob counterclockwise to the desired position. Once the rebound setting is known the rebound can be adjusted one 'click' at a time instead of zeroing the rebound for every adjustment. A lower setting number slows the shock's rebound. A higher setting number quickens the rebound damping. The rebound adjuster should be adjusted one position at a time until the rebound is correct for your riding style and speed. If the rear wheel kicks after hitting a sharp bump, the rebound could be too fast. If the rear suspension tends to stay down after hitting a bump, the rebound could be too slow.



When riding terrain with small, closely spaced bumps at high speed (washboard roads, or closely spaced whoops), it is often advantageous to reduce rebound damping by one increasing the setting 'click'. This allows the suspension to follow the contours of the terrain better. The opposite is the case when riding terrain with numerous G-outs and bigger jumps to prevent rear wheel kicking (change setting from 16 to 15 for example).

#### Forks

The ATK two stroke line uses premium quality Paoili forks that feature the ultimate in performance and reliability. These forks are adjustable for both compression and rebound damping. Taking the time to understand the fork adjustments will provide a good basis for properly adjusting the suspension.

# Note: Make sure to adjust both fork legs to the same setting for both compression and rebound.

# Compression Damping: 28 Positions - Standard setting 7 from closed (clockwise)

Before performing any adjustment to the compression settings, it is important to know the starting position of the adjuster. While counting the number of 'clicks', turn the adjuster clockwise until it stops. This provides a zero reference for the adjustments. Next turn the adjuster counterclockwise until the desired number of 'clicks' are achieved. A lower setting adjustment provides a stiffer ride, while a higher setting number provides a softer ride.

# Rebound Damping: 30 Positions - Standard setting 4 from closed (clockwise)

The rebound adjustment is set exactly the same as the compression adjustment. The setting should be set from the zero position (adjuster turned completely clockwise). To slow down the rebound damping (the speed at which the fork returns to its extended position after being compressed), reduce the setting position (for example from 10 to 9). To quicken the rebound damping, increase the setting position. Like the shock, it is often advantageous to make minor rebound damping adjustments to precisely tune the suspension to the terrain you are riding.

# Fork Oil Rating

Your new ATK is delivered with premium KYB 01 fork oil from the factory. The Paioli fork is designed for maximum performance using KYB oil. However, BEL RAY HVI 10 has been tested and will also result in exceptional performance.

### Fork Oil Level

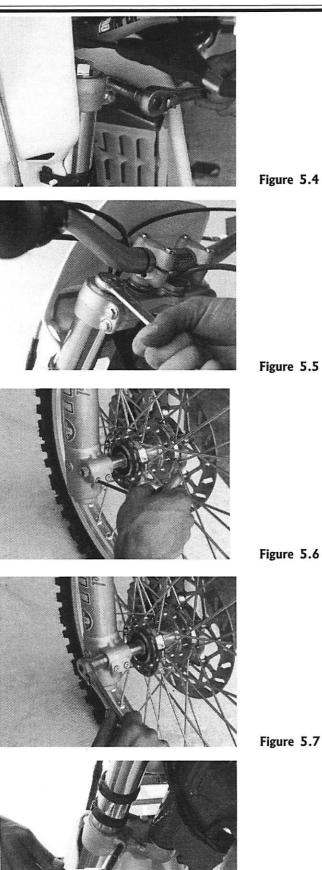
Stock: 180 mm Range of adjustment: 190 mm - 140 mm

#### Effects of Fork Oil Level

Raising the fork oil level increases the forks resistance to bottoming and generally makes the fork feel firmer during the last half of its travel. Lowering the oil level softens the overall feel of the suspension. It is best to make changes to the fork oil level in 10 mm increments.

Caution: Keep the oil level the same in both fork legs.





# Setting the Fork Oil Level

- 1. When performing any fork disassembly, cleanliness is very important. Any removed components should be placed on a clean table or a clean area.
- 2. Place the bike on a bike stand that raises the front tire off the around
- 3. Loosen the 4 10 mm head top triple clamp pinch bolts. (Figure 5.4)
- 4. Loosen both fork caps with a 24 mm wrench. (Figure 5.5)
- 5. Loosen the 5 mm Allen head axle pinch bolts on the right fork leg. (Figure 5.6)
- Remove the front axle using a 17 mm socket or 6. wrench. (Figure 5.7)
- 7. Remove the front wheel.
- Remove the plastic fork guards from both fork legs 8. using a #2 Phillips head screwdriver.
- Remove the two 12 mm head brake caliper bolts, 9. remove the caliper and let it hang.
- 10. Loosen the 4 lower triple clamp 10 mm head pinch bolts. (Figure 5.8)
- 11. Remove the fork legs from the motorcycle and lean them against a corner of a wall.
- 12. Hold the fork cap with a 24 mm wrench, pull down the preload spacer against the spring, and insert a 17 mm open end wrench above the preload spacer on the lock nut. Loosen the 17 mm hex lock nut on the cartridge stem. Remove the fork cap. (Figure 5.9)
- 13. Remove the fork spring, being careful to let the oil run down the spring and back into the fork.
- 14. Push the inner fork leg down until it is bottomed. (Figure 5.10)
- 15. Pump the cartridge stem up and down a few times until the cartridge is filled with oil.

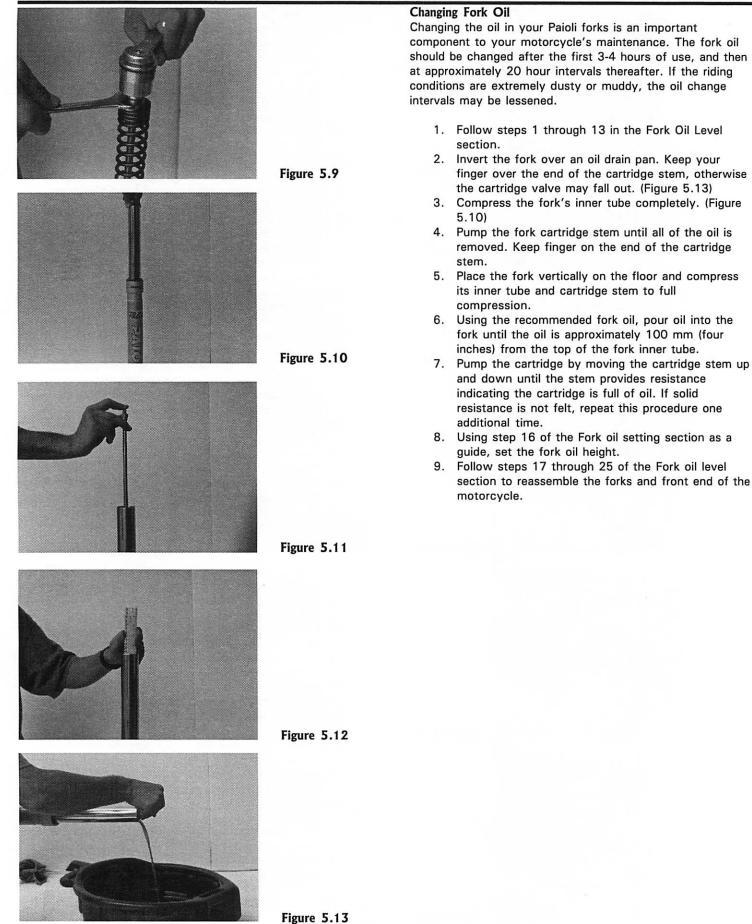
#### Note: Keep your finger over the end of the cartridge stem to prevent the damper valve from being lost. (Figure 5.11)

- 16. Holding the fork leg perpendicular to the ground, insert a narrow steel ruler into the fork until it just touches the top of the oil. Measure to the top of the inner fork tube. This is the fork oil level. (Figure 5.12)
- 17. If a higher oil lever is desired, add a small amount of oil [about 30 cc (1 ounce)], then remeasure the level.
- 18. If a lower oil level is needed, remove a small amount of oil from the fork, then remeasure the level.
- 19. Install the fork spring, spring preload spacer, and reinstall the fork cap on the cartridge stem.
- 20. Replace the fork cap on the inner tube.
- 21. Repeat steps 12 through 20 on the second fork leg.
- 22. Installs forks onto bike and torque the triple clamp pinch bolts to 17 ft\*lbs.
- 23. Install the fork guards, front wheel, front axle, brake caliper, and tighten the axle to 36 ft\*lbs.
- 24. Remove the motorcycle from the bike stand or crate. Apply the front brake and push the forks as far into their travel as possible several times to align the fork tubes, then tighten the right fork axle pinch bolts.
- 25. Recheck the tightness of all bolts and the routing of the front brake's hydraulic hose.

Figure 5.6

Figure 5.8







The latest model Brembo brake components are used on your new ATK. The front brake caliper is a 2-piston model, the rear caliper is a single-piston model. Both calipers feature quick-change brake pads. The brake rotors, a 260 mm front and 220 mm rear, are made of heat-treated stainless steel.

### Brake Fluid

ATK uses premium Golden Spectro Supreme DOT 4 (DOT 5.1 non-silicone specifications), in every motorcycle built. To maintain the superior brake performance of your new ATK, continue to use premium brake fluid such as Golden Spectro Supreme DOT 4.

#### **Brake Pads**

Replace the brake pads when the friction material is worn to 3.0 mm (1/8 inch) thickness (not including the steel baseplate). Replacement pads in a variety of friction compounds are available from your ATK dealer. If the motorcycle will be ridden primarily in muddy conditions, and premature brake pad wear is a problem, solid (no lightening holes) front and rear rotors are available from your dealer.

### Front Brake Pad Replacement

Note: This procedure can be performed without removing the front wheel.

- Gently place a screwdriver between each brake pad and the rotor. Then using a twisting motion, force each pad away from the rotor. This pushes the caliper pistons back into the caliper and makes room for the new, thicker pads. (Figure 6.1)
- 2. Remove the two spring clips from the brake pad pin located in the lower rear of the caliper. (Figure 6.2)
- 3. Push the brake pad pin toward the wheel using a drift punch and small hammer. Pull the pin from the caliper. (Figure 6.3)
- 4. Remove the brake pads by hand.

### Front Brake Pad Installation

- 1. Place each brake pad in position in the caliper and hold them in place while the brake pin is inserted.
- Set the brake pad pin firmly in place by using a drift punch and a small hammer.
- 3. Install the two spring clips onto the brake pad pin.
- Pull the front brake lever until the brake pads contact the rotor.

Figure 6.1



Figure 6.3

Figure 6.2







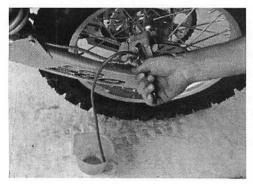


Figure 6.4

Figure 6.5

Figure 6.6

Rear Brake Pad Removal

Note: The procedure may be accomplished without removing the rear wheel.

- Gently place a screwdriver between each brake pad and the rotor. Then using a twisting motion, force each pad away from the rotor. This pushes the caliper pistons back into the caliper and makes room for the new, thicker pads. (Figure 6.4)
- 2. Remove the spring clip from the brake pad pin located at the top right rear of the brake caliper.
- Push the brake pad pin toward the wheel using a drift punch and small hammer. Pull the pin from the caliper. (Figure 6.5)
- 4. Remove the brake pads by hand.

# **Rear Brake Pad Installation**

- 1. Place each pad in its proper position and replace the brake pad pin.
- 2. Set the brake pad pin firmly in place by using a drift punch and a small hammer.
- 3. Install the spring clip into the bake pad pin.
- 4. Push the rear brake pedal repeatedly until a firm brake pedal is felt.

# Brake Bleeding (Figure 6.6)

Periodic brake bleeding to remove trapped air in a brake system is good practice. A brake pedal or lever that feels spongy or inconsistent is an indication of air in the brake system. Bleeding is a necessity after replacing a brake line, rebuilding a brake cylinder or master cylinder, and after brake fluid replacement. Brake bleeding is similar for both the front and rear brake systems.

# CAUTION: DO NOT MIX DIFFERENT RATINGS OF BRAKE FLUID.

- 1. Place an 11 mm box end wrench over the caliper bleed valve in a position where the wrench can be turned in both directions.
- Slide one end of a clear plastic hose over the bleed valve nipple, and place the other end of the hose into a plastic container.
- Pour new brake fluid into the plastic container until a reaches a height that is adequate to keep the end of the plastic hose covered.
- 4. Remove the master cylinder cover. Access to the rear master cylinder requires the removal of the right sidepanel (2-10 mm head bolts), and one 10 mm head bolt to release the reservoir. Then unscrew the lid. Access the front cover by removing the two screws with a #2 Phillips head screwdriver.
- 5. Open the caliper bleed valve and slowly operate the master cylinder as you would during braking. Refill the master cylinder as needed, being careful to not let the master cylinder run out of fluid.
- 6. When air bubbles stop being released into the fluid in the plastic container, close the bleed valve.
- 7. Use contact cleaner to clean the brake fluid that was expelled onto the caliper, rotor and/or brake pads.



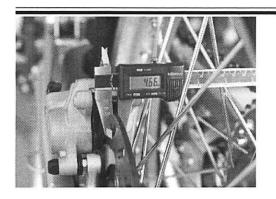


Figure 6.7

8. When refilling the front reservoir, the fluid level should be topped off. When the lid is replaced the fluid will spill over the edges. Wipe up with a clean cloth. The rear reservoir can be filled to the level indicated on the reservoir.

# Brake Rotor Condition (Figure 6.7)

The brake rotors should be inspected carefully every time the brake pads are replaced. If a rotor is bent, warped, heavily grooved, or beyond its wear limit, it should be replaced. The brake rotor thickness should be checked with a micrometer at least once a year.

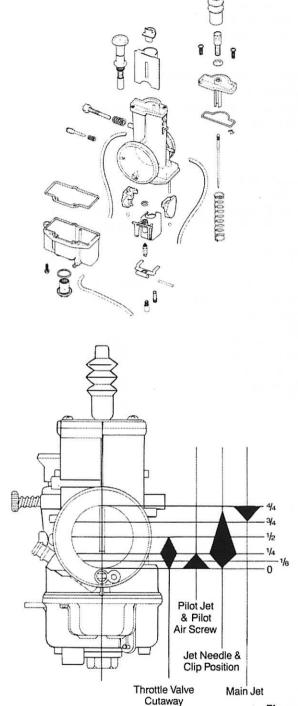
#### **Brake Rotor Thickness**

	New	Service Limit
Front	3.18 mm (0.125 inch)	2.75 mm (0.108 inch)
Rear	4.45 mm (0.175 inch)	4.00 mm (0.157 inch)

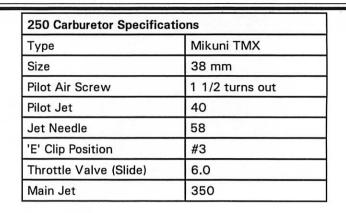
#### Brake Pad and Rotor Deglazing

Glazed brake pads and rotors can decrease braking performance significantly. If the brakes are performing poorly even though the pads are within serviceable limits, the pads and rotors are probably glazed. Glazed brake pads and rotors result from a too rapid break in of new pads and rotors, or a severe overheating of these parts. A good buffing of the brake rotor with Scotch Brite or similar abrasive should remove the rotor glaze. It may also be necessary to remove the pads and also buff them with a slight abrasive to remove the glaze.









Your new ATK's carburetion is set at our Utah factory which has an elevation of about 4000 feet. To obtain optimum performance in your riding area, we suggest spending a couple of hours fine tuning the carburetion to your local elevation and weather conditions.

If the motorcycle seems to accelerate properly throughout different throttle positions and RPM ranges, the stock carburetor jetting will probably work well. However, if you notice some hesitation, or rough sounds, you should probably try to fine tune the jetting. Sometimes it is hard to tell if the motorcycle is running rich or lean. You may have to change the jets more than once to figure out which jetting direction is helping (richer or leaner). Also, only tune one jet system (pilot, main, etc.) at a time. Even though the effect of the jet systems do overlap, it is easier to understand changes if you tune one jet system at a time. (Figure 7.1)

#### Note: Typically, it is better to start tuning with a jet that is richer instead to leaner. This will help prevent a situation where you could be running the engine so lean you could have a piston seizure. This is especially true when tuning the main jet.

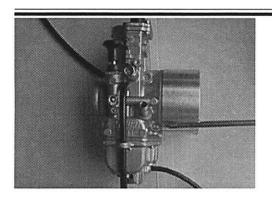
It is easy to perform adjustments on the carburetor by loosening the hose clamps of the front and rear of the carburetor with a #2 Phillips head screwdriver, and then tilting either the top or the bottom of the carburetor toward you, depending on what jet system you will be adjusting. (Figure 7.2)

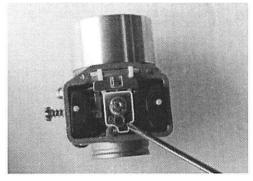
The Pilot Jet and the Main Jet are changed by removing the float bowl with a 17 mm end wrench and removing the jet with a small Phillips head screwdriver.

The Jet Needle, 'E'-Clip position, and Throttle Valve are changed by removing the top of the carburetor. Two #2 Phillips head screws retain the carburetor top.

Figure 7.2







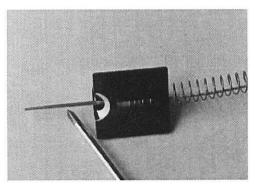




Figure 7.4

Figure 7.5

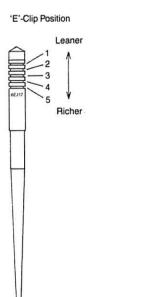


Figure 7.6

#### **Explanation of the Different Jet Systems**

#### **Pilot System**

The Pilot System is comprised of two adjustable components:

#### Pilot Air Screw (Figure 7.3)

When turned in, the pilot air screw richens the fuel mixture by reducing the air flow into the Pilot System which operates from idle to approximately 1/4th open throttle. The effective adjustment range of the Pilot Air Screw is between 1/2 to 2 turns out. If the Pilot Air Screw needs to be set more than 2 turns out to achieve the best idle, the next smaller size Pilot Jet is required. If less than 1/2 turn is required, then a larger Pilot Jet should be used. The Pilot Air Screw should be adjusted to provide the highest engine RPM while the engine is at idle.

#### Pilot Jet (Figure 7.4)

The Pilot Jet is the component supplying the majority of fuel from idle to 1/4th throttle position. For selecting the correct Pilot Jet at idle, read the previous tuning directions for the Pilot Air Screw. If the engine appears to run too lean or too rich off of idle, the carburetor may require a size smaller or larger Pilot Jet and/or the Pilot Air Screw may require adjustment.

#### Jet Needle (Figure 7.5)

The Jet Needle is the tapered rod that is positioned in the throttle valve by the 'E'-Clip. The taper of the needle increases the clearance between the Jet Needle and the fixed Needle Jet outlet as the throttle is opened. As the air flow volume increases past the throttle slide, the fuel volume is also increased to maintain the correct air/fuel ratio.

### Needle 'E'-Clip Position (Figure 7.6)

The position of the 'E'-Clip in the Jet Needle is used to correct or change the air/fuel ratio between 1/4th and 3/4th throttle valve position. The 'E'-Clip can be raised or lowered on the Jet Needle. To richen the fuel mixture the 'E'-Clip is lowered on the Jet Needle, raising the Jet Needle's position in the throttle slide. To lean the fuel mixture the 'E'-Clip is raised on the Jet Needle, lowering the Jet Needle's position in the throttle slide.

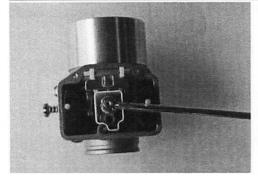
#### **Optional Jet Needles**

To correct the fuel mixture at 1/8th to 1/4th throttle slide position it may be necessary to change the Jet Needle. The Jet Needle will have a series of numbers stamped on it. Example: 6EJ12-55. The numbers 55 indicate that the outside diameter (O.D.) of the Jet Needle is 2.55mm. The smaller the O.D. the richer the mixture. The larger the number the leaner the mixture.

#### Throttle Valve (Slide) (Figure 7.5)

The Throttle Valve cutaway affects engine/carburetor response between 1/8th to 1/4th throttle slide position. The smaller the slide number, the richer the mixture. Available range 3.0, 3.5, 4.0, 5.0, 6.0 (richer  $\rightarrow$  leaner).







The Main Jet is located in the float bowl and can be removed or changed through the float bowl drain plug hole. The Main Jet controls the air/fuel mixture ratio from 3/4ths to wide open throttle position. The larger the number stamped on the Main Jet, the richer the mixture.

When tuning the carburetor the tuning components being used are relative to the throttle slide position, not engine RPM or actual vehicle speed. Most tuning can be accomplished at relatively low speeds by making note of the approximate throttle position at which there appears to be a tuning problem. Make tuning adjustments by adjusting or changing the tuning component controlling the fuel mixture at that throttle slide position.

# Float Level Adjustment (Figure 7.8)

Invert carburetor and remove float bowl. The Float assembly's actuator tab should just begin contact with the Needle Valve Assembly when the bottom of the Float Assembly is 20mm from carburetor bottom as shown. Make required adjustments by bending actuator tab.

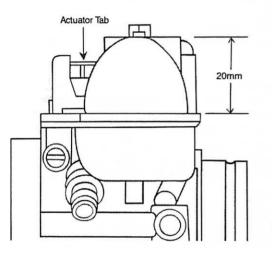
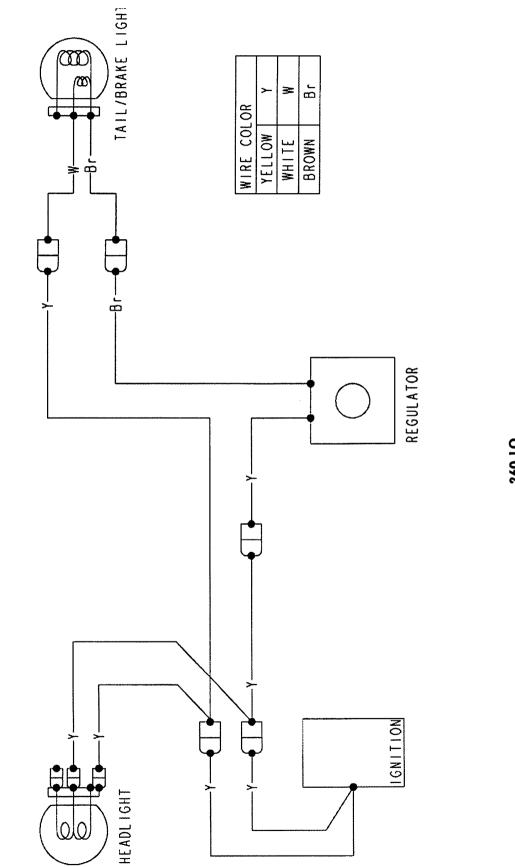




Figure 7.7





260 LQ

WASHING/STORAGE

# Washing Your Motorcycle

- It is good practice to thoroughly wash your ATK motorcycle after each ride. An exhaust plug or plastic bag should be
  placed in the end of the silencer before washing to keep water from entering the exhaust system and engine.Wash the
  bike using water and liquid dish soap, or if preferred, use a high-pressure washer. Avoid spraying the pressure washure at
  the steering head and all engine mating surfaces. Use the pressure washer to remove big pieces of dirt and mud. Next
  spray Simple Green or a similar cleaning product on the motorcycle. This assist in breaking down the dirt. Let the
  cleaning solution sit for a few minutes, and then spray off.
- After washing and drying the bike, spray a light coat of WD40 to all of the frame parts where the paint has worn off to prevent rusting. Also, after washing the machine, carefully ride the bike slowly and apply both brakes gently to dry them of condensation.
- Lubricate the chain with WD40 or chain lube to prevent rust.
- A light coat of plastic polish will restore the shine to plastic components and make the bike easier to wash after the next ride.

### CAUTION: Do not use protective conditioners on the seat cover, however, as they make the seat cover very slippery.

• Lubricate the footpeg pivots, shift lever folding tip and kickstarter folding joint with WD40 or a light weight oil.

# CAUTION: Never use a plastic or rubber conditioner on the tires. Doing so makes them look great. It also makes them dangerously slippery!

### Motorcycle Storage

If your ATK is going to be stored for an entended period of time, the following preparation should be performed:

- Wash the bike following the procedures outlined above.
- Clean and oil the air filter.
- Change the oil.
- Drain ALL of the fuel from the fuel tank, fuel lines and carburetor.
- Place the motorcycle on a stand that raises both wheels off the ground.
- Put a plastic bag over the end of the silencer to keep foreign objects and moisture from entering.
- Inflate the tires to 20 psi (they will lose pressure while sitting).
- Lubricate all control cables using a cable oiler and appropriate lube.
- Cover the motorcycle with a motorcycle cover.

### Removing a Motorcycle from Storage

If you have properly followed the instructions for storing your motorcycle, you can prepare your motorcycle to ride by following these steps.

- Remove the motorcycle cover.
- Remove the plastic bag from the exhaust silencer.
- If the motorcycle has been stored for more than three months, change the oil.
- Inflate the tires to 15 psi.
- Fill the fuel tank with fresh 90-plus octane unleaded fuel mixed at proper ratio.
- Turn on the fuel petcock and check the fuel lines, carburetor, fuel tank and fuel petcock for leakage. Correct any fuel leakage problems which may occur before proceeding further.
- Start the motorcycle and let it run for a few minutes.
- If the motorcycle has been stored for over one year, drain the brake fluid from both brake systems and replace it with fresh fluid. Bleed the brake systems carefully to remove all of the air.
- Perform the PRE-RIDE INSPECTION CHECK LIST in the Pre-Ride/ Break In section.
- Put on protective riding gear(helmet, boots, gloves, pants, jersey, chest protector, and goggles).
- Start the motorcycle and carefully and slowly ride the bike, checking for correct function of brakes, throttle, clutch, shifting, steering and kill button.
- Correct any problems that the test ride may have indicated.
- Go ride.



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