



# ATV / UTV



# CYLINDER SLEEVES & ACCESSORIES



2023



**MANUFACTURER OF QUALITY CYLINDER SLEEVES**

**TRACTORS**

**COMPRESSOR**

**TRUCK**

**AUTOMOTIVE**

**MARINE**

**MOTORCYCLE**

**WATERCRAFT**

**SNOWMOBILE**

**CUSTOM**

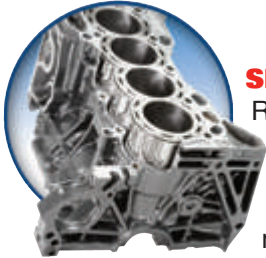
**HI-PERFORMANCE**





**SLEEVES:** Los Angeles Sleeve Co. manufactures cast iron cylinder sleeves for all popular makes and models. Engine rebuilders find they can rely on the quality and workmanship of LASCO cylinder sleeves, and their use saves them time and money. The castings used in the manufacture of these sleeves are made from an iron alloy and hardness specifically formulated for cylinder sleeves, which insures ease in installation, trouble free boring and a dependable long life engine.

Centerless grinding of outside diameters of LASCO sleeves provides for perfect roundness and exact size which is controlled by rigid inspection of one-half thousandth of an inch. We invite comparison of our sleeves with other leading makes for size, roundness and finish.



**SLEEVING... STILL THE SOLUTION!**

Re-sleeving worn or seized cylinders and cylinder blocks with cylinder sleeve liners manufactured by L.A. Sleeve Co. continues to be the solution for riders, racer, and engine builders everywhere. Our top quality cylinder sleeves, four-stroke and two-stroke, have proven to be durable and economical with the added advantage of being boreable. Resleeved cylinders will never flake or peel.

**L.A. SLEEVE is a full line engine parts distributor. Together with our cylinder sleeves and sleeve kits we proudly sells these fine products to handle your every need.**



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**SLEEVES:** Los Angeles Sleeve Co. manufactures cast iron cylinder sleeves for all popular makes and models. Engine rebuilders find they can rely on the quality and workmanship of **LASCO** cylinder sleeves, and their use saves them time and money. The castings used in the manufacture of these sleeves are made from an iron alloy and hardness specifically formulated for cylinder sleeves, which insures ease in installation, trouble free boring and a dependable long life engine.

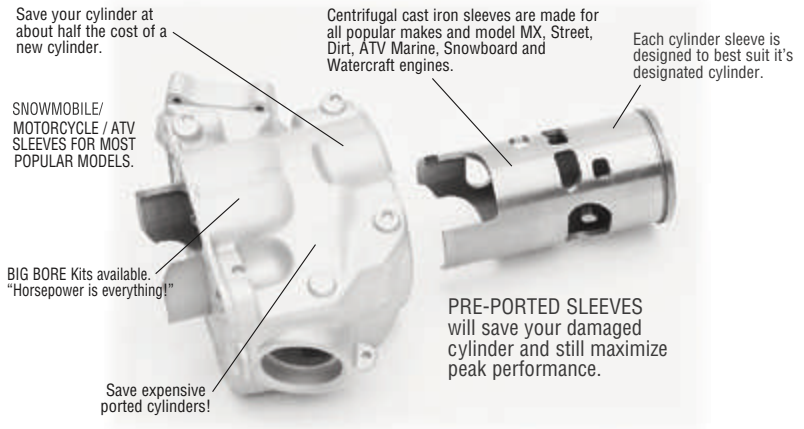
Centerless grinding of outside diameters of **LASCO** sleeves provides for perfect roundness and exact size which is controlled by rigid inspection of one-half thousandth of an inch. We invite comparison of our sleeves with other leading makes for size, roundness and finish.

Each cylinder sleeve is designed to best suit its designated cylinder. Three concepts are integrated in the designing and manufacturing of a sleeve:

- 1) The retained strength of a cylinder after the sleeve is installed.
- 2) Ease of installation for the rebuilder.
- 3) The ability to bore to the maximum amount of oversize pistons available.

The **TYPE** column, next to the sleeve part number, will help the rebuilder identify the cylinder that is to be sleeved.

The **TYPE** column designation will also help the rebuilder to determine the proper installation procedure.



### TYPE COLUMN CODE EXPLANATIONS:

- AC** - Original cylinder bore is alloy-chrome plated, Nikasil, or electrofused. The cylinder must be bored to accept the new cylinder sleeve.
- CS** - Original block has a cast-in sleeve liner in the cylinder. The cylinder must be bored out to accept the new cylinder sleeve. The cast-in liner will be bored completely out of the cylinder. Do not try to push out the cast-in liner, cylinder damage may be the result.
- CI** - Original block has a cast-in liner in the cylinder. The cylinder must be bored to accept the new cylinder sleeve. When using a CI style sleeve the cast-in liner will not be completely removed. The sleeve is designed to insert into the iron lined cylinder.
- RS** - Original block has a replacement sleeve. Heat the cylinder to remove the sleeve. Reheat the cylinder to install the new cylinder sleeve.
- CC** - Original barrel is cast-iron. The cylinder must be bored to accept the new cylinder sleeve.
- L** - Limited inventory available. Once inventory of this part number is depleted the sleeve will be made to order. Call for inventory status and/or delivery lead times.
- MO** - Sleeve is made to order. Limited inventory may be in stock. Call for inventory status and/or delivery lead times.
- NA** - This sleeve part number is no longer produced and not available for production.
- BB** - Big Bore Sleeve may require special machining and/or machining of cases or cylinder head.

### GENERAL RULES FOR SLEEVE INSTALLATION:

These tips are intended to be a guide for installing sleeves into cylinders. There are always exceptions to the rule and care must be taken on special applications.

**ALWAYS WAIT UNTIL THE SLEEVE ARRIVES BEFORE BEGINNING ANY MACHINE WORK. NEVER ASSUME THAT THE STATED MODEL AND YEAR OF THE CYLINDER IS CORRECT. ALWAYS CHECK TO SEE IF THE SLEEVE PORTS MATCH THE CYLINDER PORTS.**

1. Interference fit for cylinder sleeve to aluminum bore is .004.
2. Interference fit for cylinder sleeve to a cast iron bore is .002 to .003.
3. Installation of flanged type sleeves follow the same rules, but the top of the cylinder must have a countersink to the correct depth to accept the flanged sleeve. .000 to .001 interference fit on the flange diameter is recommended.
4. Heating the cylinder for 45 minutes to one hour at 350 degrees to 450 degrees is preferable.
5. The sleeve should slide in very easily when the cylinder is properly heated. Freeze shrinking the sleeve is optional. (Some machinists believe this assists installation of the sleeve.)
6. **REMEMBER:** Rap or press the sleeve down while the cylinder is cooling down. Use a hydraulic press for this procedure.
7. Milling the top deck of the cylinder always adds a quality touch. A caution here, some cylinders may not be able to have the top surface decked.
8. For 2-stroke cylinders, blending or matching the ports is recommended for proper fuel flow.



# ENGINE & SHOP SERVICES

## TOP END CYLINDER REBUILD KITS

Cylinder Rebuild Kits are available for 2-Stroke and 4-Stroke engines. Each rebuild kit is supplied with all of the quality engine parts to re-sleeve your cylinder and re-assemble the top end.

**2-STROKE KITS** feature a cylinder sleeve with the machined ports, a pro-cast or forged piston, rings, pin, clips and pin bearing. A top end gasket kit is included to assure a smooth re-assembly.

**4-STROKE KITS** include a cylinder sleeve, a pro-cast or forged piston, rings, pin, clips and a top end gasket kit. Many gasket kits include the valve stem seals.



## CYLINDER REPAIR

**Why would you spend several hundred dollars to buy a new cylinder when we can repair it for a fraction of the cost?**

L.A. Sleeve offers re-sleeving services for automotive, small engine, motorcycle, ATV, snowmobile, marine and watercraft.

Four-stroke cylinders receive a newly installed cylinder sleeve, are bored, honed to fit the piston and the top is surfaced when required.

Two-stroke cylinders receive a newly installed sleeve. All of the ports are matched, blended and chamfered. The sleeved cylinder is bored and honed to fit the piston. The top deck is surfaced to be as new. A properly

installed two-stroke sleeve renews the cylinder and retains the original performance of the engine.

Send us your cylinder or cylinder block along with instructions. Our sleeving department will install a new sleeve or multiple sleeves into your cylinder and return it ready to install and run.



## CYLINDER RE-PLATING

L.A. Sleeve offers a full cylinder re-plating service for the rider who desires to maintain the original plated bore. We will strip, weld and repair the damaged bore, then re-plate the cylinder bore with Nickel-Silicon-Carbide plating. L.A. Sleeve will supply you with a new piston and gasket kit and size the piston to the freshly plated bore.



## CRANKSHAFT REBUILDING

We provide complete crank rebuilding to you. No need to buy an OEM crankshaft, when we can install a new aftermarket connecting rod kit. Our service comes complete with pressing crank apart, inspecting web journals, reinstalling new aftermarket rod kit and truing crank to exact tolerances.



## 4-STROKE HEAD SERVICE, REPAIR AND CNC PORTING

L.A. Sleeve is a leader in four-stroke development technology. Our years of experience will assure you receive the proper service required.

We will disassemble, inspect, rebuild and re-assemble your head. L.A. Sleeve uses state of the art CNC machinery to do head porting and valve work. We are able to perform a standard 3-angle valve job or a performance 5-angle radius valve job. We can replace worn valve guides or install high performance guides. Let us replace your iron valve seats with our copper/beryllium seats to insure reliability and longevity of your steel or titanium valves.



**MODEL**  
Engine Description  
Cylinder I.D. (mm/in.)



**SLEEVE**

**REBUILD KIT**  
Sleeve • Piston  
Gasket • I.E. Bearing

**BORE SIZE (mm)**

**PISTON SIZE**

**TOP END**

**TOP END**

**VALVE TRAIN**

**BOTTOM END**

PRO-X PISTON

LAPC PISTON

WISECO PISTON

WOSSNER PISTON

VERTEX PISTON

JE PISTON

COMETIC GASKET

L.A. SLEEVE GASKET

CYLINDER AFTERMARKET KITS

VALVE VALVE SPRING KIT

VALVE GUIDE

CAMSHAFT

CAM CHAIN

CRANKSHAFT

CON-ROD KIT

CRANK BEARING

ENGINE OIL SEAL KIT

**ARCTIC CAT FOUR-STROKE**

MODEL	Year	Engine Description	Cylinder I.D. (mm/in.)	BORE SIZE (mm)	PISTON SIZE	PRO-X PISTON	LAPC PISTON	WISECO PISTON	WOSSNER PISTON	VERTEX PISTON	JE PISTON	COMETIC GASKET	L.A. SLEEVE GASKET	CYLINDER AFTERMARKET KITS	VALVE VALVE SPRING KIT	VALVE GUIDE	CAMSHAFT	CAM CHAIN	CRANKSHAFT	CON-ROD KIT	CRANK BEARING	ENGINE OIL SEAL KIT	
90 DVX, AUTO Alterra 90cc 47mm	2006-22	2006-22	CI FL-5615	1.850"																			
150 DVX 149cc 62mm	2009-19	2009-19	FL-5409	2.440"																			
250 4x4, 2x4 246cc 66mm	1999-05 Single 2.598"	1999-05	CI FL-5019	66.00 66.50 67.00 67.50 68.00	Std. .020 .040 .060 .080			9.2:1 Comp. 2720 2722 2724	10.25:1 Comp. 4382M06600 4382M06650 4382M06700 4382M06750 4382M06800				Top End 35-0827  Complete w/oil seals 37-1827										
250 DVX, 2x4 249cc 72.7mm	2006-09 Liquid Cooled 2.862"	2006-09	AC FL-5613																				
300 DVX 270cc 72.7mm	2009-22 Liquid Cooled 2.862"	2009-22	AC FL-5543																				
300 4x4, 2x4 280cc 68.5mm	1998-05 Single 2.697"	1998-05	CI FL-5136	68.50 69.00 69.50	Std. .020 .040			8.5:1 Comp. 2730 2732 2734						Top End 35-0826  Complete w/oil seals 37-1826									
350 4X4 366 4x4 400 TRV 400 CORE 400 Alterra	2011-12 2008-11 2009-14 2013-15 2016-17 Single 3.188"	2011-12 2008-11 2009-14 2013-15 2016-17	FL-5670	81.00	Std.				Stock Comp. 40162M08100														
375 4x4, 2x4 400 4x4, 2x4	2002 2003-08 Single 3.228"	2002 2003-08	CS FL-5512											Top End 35-0846									
400 4x4, 2x4 371cc 84mm	1998-02 Liquid Cooled 3.307"	1998-02	CI FL-5364																				
400 DVX 2x4 398cc 90mm	2004-08 Liquid Cooled 3.543"	2004-08	AC FL-5430	5430K	90.00 90.01 91.00 92.00	Std. Std. .040 .080	12.25:1 Comp. 5220A 5220B 5224	12.25:1 Comp. 4713M09000	12.25:1 Comp. 8563DA 8563DB	11.3:1 Comp. VT22951A VT22951B	12:1 Comp. 180297	Top End C7978-EST (92mm)	Top End 35-3402 (90mm)	Cylinder Works 40001 (Std. 90mm)	Intake 28-34022 Exhaust 28-34021 Set 28-3402S	Valve Guide IN / EX 60-60060  O/S +.001 60-60061	Hot Cams Camshaft 2249-1IN (Intake) 2250-1E (Exhaust)	CC-3403	HR4059	Pro-X 04921	6306RI Bearing / Seal Kit 49K049		
<b>Resleeving required for oversizes</b>					90.00 92.00	Std. .080		4713M09200	13.5:1 Comp. 8567DA	13.5:1 Comp. VT23550A	199657	Complete w/oil seals 37-3402	Cylinder Works Complete Kit 40001-K01 (Std. 90mm)	Valve Springs 60-60045						Hot Rods Bottom End Kit CBK0096 Includes Crankshaft, Bearings Seals, Complete Gasket Set			
<i>Cylinder Works Complete Kit Includes Cylinder, Piston Kit, Gaskets</i>																							

ARCTIC CAT  
CAN-AM  
HONDA  
KAWASAKI  
KTM  
KYMCO  
POLARIS  
SUZUKI  
YAMAHA  
KITS  
UNIBAT  
AP BRAKES



**MODEL**  
Engine Description  
Cylinder I.D. (mm/in.)



**SLEEVE**

**REBUILD KIT**  
Sleeve • Piston  
Gasket • I.E. Bearing

**BORE SIZE (mm)**

**PISTON SIZE**

**TOP END**

**TOP END**

**VALVE TRAIN**

**BOTTOM END**

**PRO-X PISTON**

**LAPC PISTON**

**WISECO PISTON**

**WOSSNER PISTON**

**VERTEX PISTON**

**JE PISTON**

**COMETIC GASKET**

**L.A. SLEEVE GASKET**

**CYLINDER AFTERMARKET KITS**

**VALVE VALVE SPRING KIT**

**VALVE GUIDE**

**CAMSHAFT**

**CAM CHAIN**

**CRANKSHAFT**

**CON-ROD KIT**

**CRANK BEARING**

**ENGINE OIL SEAL KIT**

**ARCTIC CAT FOUR-STROKE (CONTINUED)**

MODEL	Year	Code	BORE SIZE (mm)	PISTON SIZE	PRO-X PISTON	LAPC PISTON	WISECO PISTON	WOSSNER PISTON	VERTEX PISTON	JE PISTON	COMETIC GASKET	L.A. SLEEVE GASKET	CYLINDER AFTERMARKET KITS	VALVE VALVE SPRING KIT	VALVE GUIDE	CAMSHAFT	CAM CHAIN	CRANKSHAFT	CON-ROD KIT	CRANK BEARING	ENGINE OIL SEAL KIT	
400 DVX 2x4 Big Bore 434cc to 450cc 94mm 3.700" 434cc 94.00mm 440cc 94.50mm 443cc 95.00mm 450cc 95.50mm	2004-08	BB FL-5430B	94.00 94.50 95.00 95.50	.160 .180 .200 .220			12.5:1 Comp. 4795M09450	12.2:1 8563D400	11.5:1 Comp. VT23533	12:1 Comp. 183051  13:1 Comp. 243651			Cylinder Works Complete Kit <b>41001-K01</b> (434cc, 94mm)	Intake 28-34022 Exhaust 28-34021 Set 28-3402S  Valve Springs 60-60045	Valve Guide IN / EX 60-60060  0/S +.001 60-60061	Hot Cams Camshaft 2249-1IN (Intake) 2250-1E (Exhaust)	CC-3403	HR4059	Pro-X 04921	6306RI Bearing / Seal Kit 49K049		
Bearcat 454 4x4 Bearcat 454 2x4 454cc Liquid Cooled 84mm 3.307"	1996-98 1997-98	CI FL-5326																				
XC 450 443cc Liquid Cooled 89mm 3.504"	2011-13	AC FL-5766																				
450 Alterra 450 CORE 450i 450 TRV 443cc Liquid Cooled 89mm 3.504"	2016-22 2013-15 2011-12 2011-12	AC FL-5766																				
500 H1 500 XT 500 TRV 500 Alterra 443cc Liquid Cooled 89mm 3.504"	2013-17 2013-17 2013-17 2016-17	AC FL-5766																				
Prowler 500 500 HDX 443cc Liquid Cooled 89mm 3.504"	2014-22 2016-17	AC FL-5766																				
500 4x4 500 4x4 Auto 493cc Liquid Cooled 87.5mm 3.444"	1998-09 2000-09	AC FL-5370																				
550 Prowler H1 550 H1 LE 550 TRV 570 Alterra 545cc Liquid Cooled 92mm 3.622"	2009-15 2009-15 2009-17 2019-21	AC FL-5328	92.00	Std.			Stock Comp. 40107M09200															
650 4x4 650 4x4 Auto 633cc Twin Liquid Cooled 80mm 3.150"	2004-06 2004-06	RS KA-5508	80.00 80.50 81.00 82.00	Std. .020 .040 .080			11:1 Comp. 4782M08000 4782M08050 4782M08100 4782M08200															
650 H1, 4x4 650 Prowler 641cc Single Liquid Cooled 98mm 3.858"	2007-11 2006-09	AC FL-5612	98.00	Std.			Stock Comp. 40099M09800															

ARCTIC CAT  
CAN-AM  
HONDA  
KAWASAKI  
KTM  
KYMCO  
POLARIS  
SUZUKI  
YAMAHA  
KITS  
UNIBAT  
AP BRAKES







**MODEL**  
Engine Description  
Cylinder I.D. (mm/in.)



**SLEEVE**

**REBUILD KIT**  
Sleeve • Piston  
Gasket • I.E. Bearing

**BORE SIZE (mm)**

**PISTON SIZE**

**TOP END**

**TOP END**

**VALVE TRAIN**

**BOTTOM END**

**PRO-X PISTON**

**LAPC PISTON**

**WISECO PISTON**

**WOSSNER PISTON**

**VERTEX PISTON**

**JE PISTON**

**COMETIC GASKET**

**L.A. SLEEVE GASKET**

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**VALVE VALVE SPRING KIT**

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**CRANKSHAFT**

**CON-ROD KIT**

**CRANK BEARING**

**ENGINE OIL SEAL KIT**

**BOMBARDIER • CAN-AM FOUR-STROKE**

MODEL	Year	Engine Type	FL	SLEEVE	REBUILD KIT	BORE SIZE (mm)	PISTON SIZE	PRO-X PISTON	LAPC PISTON	WISECO PISTON	WOSSNER PISTON	VERTEX PISTON	JE PISTON	COMETIC GASKET	L.A. SLEEVE GASKET	CYLINDER AFTERMARKET KITS	VALVE VALVE SPRING KIT	VALVE GUIDE	CAMSHAFT	CAM CHAIN	CRANKSHAFT	CON-ROD KIT	CRANK BEARING	ENGINE OIL SEAL KIT			
DS90 90cc 47mm	2002-05	CI	FL-5615													Top End 35-0855											
DS90 90cc 50mm	2006-07	CI	FL-5616																								
DS90 90cc 49.5mm	2008-22	CI	FL-5696																								
Rally 200 176cc Single Liquid Cooled 62mm	2004-07	AC	FL-5617																								
DS250 249cc Single Liquid Cooled 71mm	2006-22	AC	FL-5618																								
Outlander 330 H.O. 325cc Single Liquid Cooled 82mm	2003-05	RS/CS	FL-5620																			HR00062		49-822388			
																						Rod Bolts HR00092		Main Bearing / Seal Kit 49K101			
Outlander 400 H.O. EFI 400cc Single Liquid Cooled 91mm	2005-15	CI	FL-5619			91.00 92.00 93.00	Std. .040 .080			11.5:1 Comp. 40030M09100 40030M09200 40030M09300			11.5:1 Comp. 317810 317811				Top End 35-0957					Steel Intake 91-91162	Valve Guide Intake 91-91170		HR00062		49-822388
						91.00 92.00 93.00	Std. .040 .080			13:1 Comp. 40031M09100 40031M09200 40031M09300												Rod Bolts HR00092		Main Bearing / Seal Kit 49K101			
Outlander 450 HD5 427cc Single Liquid Cooled 94mm	2014-22	CS	FL-5788																				HR00062				
Defender HD5 427cc Single Liquid Cooled 94mm	2017-20																						Rod Bolts HR00092				
DS450 449cc Single Liquid Cooled 97mm	2008-15	AC	FL-5672			97.00 97.00 97.00 97.00	Std. Std. Std. Std.			11.8:1 Comp. 40026M09700			12.5:1 Comp. 274185 (3 ring) 274187 (2 ring)				Top End C3266-EST						Steel Intake 91-91112	Valve Guide Intake 91-91120			
										13:1 Comp. 40027M09700			13:1 Comp. 274186 (3 ring) 274188 (2 ring)														
Outlander 500 H.O. EFI 500cc V-Twin Liquid Cooled 82mm	2007-15	RS/CS	FL-5620	5620K-1		82.00 82.50 83.00	Std. .020 .040			Stock Comp. 40028M08200 40028M08250 40028M08300															49-822362		
Renegade 500 H.O. EFI	2008-15																								Main Bearing / Seal kit 49K102		

ARCTIC CAT  
CAN-AM  
HONDA  
KAWASAKI  
KTM  
KYMCO  
POLARIS  
SUZUKI  
YAMAHA  
KITS  
UNIBAT  
AP BRAKES





**MODEL**  
Engine Description  
Cylinder I.D. (mm/in.)



**SLEEVE**

**REBUILD KIT**  
Sleeve • Piston  
Gasket • I.E. Bearing

**BORE SIZE (mm)**

**PISTON SIZE**

**TOP END**

**TOP END**

**VALVE TRAIN**

**BOTTOM END**

PRO-X PISTON

LAPC PISTON

WISECO PISTON

WOSSNER PISTON

VERTEX PISTON

JE PISTON

COMETIC GASKET

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CRANK BEARING

ENGINE OIL SEAL KIT

**BOMBARDIER • CAN-AM FOUR-STROKE (CONTINUED)**

MODEL	AC	FL	BORE	PISTON	COMPRESSION	TOP END	TOP END	VALVE TRAIN	BOTTOM END
<b>Maverick X3 HO 2017-22</b> <b>Maverick X3 Max Turbo</b> ACE 900cc Triple Liquid Cooled 74mm 2.913"	AC	FL-5809	74.00	Std.					
<b>**Set of 3 Ductile Iron Racing Sleeves Closed Deck Siamese Flanged Note: Special CNC Machining Required For Sleeve Installation</b>	AC/MO	FL5809CDX3							
<b>1000R 2011-22</b> <b>Outlander 1000 2012-22</b> <b>Renegade 1000 2012-22</b> 976cc V-Twin Liquid Cooled 91mm 3.582"	CI	FL-5775	91.00	Std.	11:1 Comp. 40153M09100	9:1 Comp. 308411 (Set of 2)	Top End <b>Outlander (12-17)</b> C3459-EST  C3460-EST (93mm)	Steel Intake 91-91312H  Inconel Steel Exhaust  <b>91-91316K</b>  Valve Spring Kit 91-91300	Valve Guide IN / EX 91-91320M  O/S+.001  <b>91-91321M</b>
			91.00	Std.		10.2:1 Comp. 308412 (Set of 2)		Steel Intake 91-91212  Steel Exhaust 91-91216  Valve Spring Kit 91-91200 <b>(thru 2020)</b>	Valve Guide IN / EX 91-91220  O/S+.001 91-91221
			91.00	Std. .080	11:1 Comp. 40153M09300		<b>Renegade</b> 35-0956 <b>(*12-15)</b> 35-0978 <b>(*16-22)</b>  Complete w/oil seals <b>Outlander</b> 37-1363 <b>(*12-17)</b> 37-1982 <b>(*18-22)</b>  <b>Renegade</b> 37-1957 <b>(*12-15)</b> 37-1982 <b>(*16-22)</b>	CC-044 <b>(11-20)</b>	
<b>Commander 1000 2011-22</b> <b>Defender 1000 HD9 2021-22</b> <b>Defender 1000 HD10 2016-22</b> <b>Maverick 1000R 2013-22</b> 976cc V-Twin Liquid Cooled 91mm 3.582"	CI	FL-5775	91.00	Std. .080	Commander 11:1 Comp. 40153M09100 40153M09300	Commander 12.5:1 Comp. 308414 (2) 308415 (2)	Top End C3459-EST  C3460-EST (93mm)	Steel Intake 91-91212  Steel Exhaust 91-91216  Valve Spring Kit 91-91200 <b>(thru 2020)</b>	Valve Guide IN / EX 91-91220  O/S+.001 91-91221
			91.00	Std.	Maverick 12:1 Comp. 40152M09100	Maverick 12.5:1 Comp. 324953 (2)	<b>Commander</b> 35-0956 <b>(11-17)</b> 35-0978 <b>(18-22)</b>  <b>Defender</b> 35-0956 <b>(16-19)</b> 35-0978 <b>(20-22)</b>  <b>Maverick</b> 35-0956 <b>(15-22)</b>	CC-044	

ARCTIC CAT  
CAN-AM  
HONDA  
KAWASAKI  
KTM  
KYMCO  
POLARIS  
SUZUKI  
YAMAHA  
KITS  
UNIBAT  
AP BRAKES





**MODEL**  
Engine Description  
Cylinder I.D. (mm/in.)



**SLEEVE**

**REBUILD KIT**  
Sleeve • Piston  
Gasket • T.E. Bearing

**BORE SIZE (mm)**

**PISTON SIZE**

**TOP END**

**TOP END**

**BOTTOM END**

PRO-X PISTON

LAPC PISTON

WISECO PISTON

WOSSNER PISTON

VERTEX PISTON

T.E. BEARING

COMETIC GASKET

L.A. SLEEVE GASKET

CRANKSHAFT

CON-ROD KIT

CON-ROD ASSEMBLY  
Rod • Bearings • Seals

CRANK BEARING

CRANK SEAL KIT

**HONDA TWO-STROKE (CONTINUED)**

MODEL	BB	RS	RS/MO	CI/MO	CS	CI	BORE SIZE (mm)	PISTON SIZE	PRO-X PISTON	LAPC PISTON	WISECO PISTON	WOSSNER PISTON	VERTEX PISTON	T.E. BEARING	COMETIC GASKET	L.A. SLEEVE GASKET	CRANKSHAFT	CON-ROD KIT	CON-ROD ASSEMBLY Rod • Bearings • Seals	CRANK BEARING	CRANK SEAL KIT			
<b>NIKS PROGRESS 330 KITS</b> 323cc to 330cc 76mm 2.992"	BB						76.00 76.50 77.00	Std. .020 .040		W330PS W330P2 W330P4 W330P6 W330P8				T. E. Bearing 1181		Top End GS330								
Replacement Sleeve With Bridged Exhaust Port	RS	LAS-376					77.50 78.00	.060 .080									Base Plate BSP845							
Replacement Sleeve With Oval Exhaust Port	RS	LAS-3760V							87-89 Years Must Use Base Plate With W330 Pistons & Stock Crank															
Replacement Sleeve ESR Cylinder w/ Bridged Exhaust	RS/MO	ESR-329																						
Replacement Sleeve ESR Cylinder With Oval Exhaust	RS/MO	ESR-3290V																						
<b>NIKS PROGRESS 350 KITS</b> 77.50mm 3.051" to 78.50mm 3.091"	BB						77.50 78.00 78.50	.060 .080 .100		W330P6 W330P8 W330P10				T. E. Bearing 1181		Top End GS350								
Replacement Sleeve With Bridged Exhaust Port	RS	LAS-378																						
Replacement Sleeve With Oval Exhaust Port, PV Cylinder	RS	LAS-3780V1																						
Replacement Sleeve With Oval Exhaust Port Non PV	RS	LAS-3780V																						
Replacement Sleeve ESR Cylinder With Bridged Exhaust	RS/MO	ESR-349																						
Replacement Sleeve ESR Cylinder With Oval Exhaust	RS/MO	ESR-3490V																						
<b>MO = Made to Order</b>																								
<b>Odyssey 250 1977-84</b> 247cc 70mm 2.756"	CI/MO	H-91					70.00 70.50 71.00 71.50 72.00	Std. .020 .040 .060 .080			338M07000 338M07050 338M07100 338M07150 338M07200			T.E. Bearing 01181	Top End C7140							6306C3		
<b>ATC-300 Honda Kit Cylinder 1981-84</b> 299cc 76mm 2.992"	CS/MO	H-115																						
<b>Odyssey 350 1985-86</b> 329cc 78.5mm 3.090"	CS	H-896					80.00 80.50 81.00 81.50 82.00	.060 .080 .100 .120 .140			533M08000 533M08050 533M08100			T.E. Bearing 01181	Top End C7229							Left 6307N Right 6306C3		
<b>Pilot FL-400R 1989-92</b> 397cc 80mm Liquid Cooled 3.150"	CI	H-5088					80.00 81.00 82.00	Std. .040 .080			577M08000 577M08100 577M08200			T.E. Bearing 01320	Top End C7024							Left 6306C3		

ARCTIC CAT  
CAN-AM  
**HONDA**  
KAWASAKI  
KTM  
KYMCO  
POLARIS  
SUZUKI  
YAMAHA  
KITS  
UNIBAT  
AP BRAKES



**MODEL**  
Engine Description  
Cylinder I.D. (mm/in.)



**SLEEVE**

**REBUILD KIT**  
Sleeve • Piston  
Gasket • I.E. Bearing

**BORE SIZE** (mm)

**PISTON SIZE**

**TOP END**

**TOP END**

**VALVE TRAIN**

**BOTTOM END**

PRO-X PISTON

LAPC PISTON

WISECO PISTON

WOSSNER PISTON

VERTEX PISTON

JE PISTON

COMETIC GASKET

L.A. SLEEVE GASKET

CYLINDER AFTERMARKET KITS

VALVE VALVE SPRING KIT

VALVE GUIDE

CAMSHAFT

CAM CHAIN

CRANKSHAFT

CON-ROD KIT

CRANK BEARING

ENGINE OIL SEAL KIT

**HONDA FOUR-STROKE**

MODEL	Year Range	CC	Stroke	Stroke (mm)	Stroke (in.)	Stroke (mm)	Stroke (in.)	Stroke (mm)	Stroke (in.)	Stroke (mm)	Stroke (in.)	Stroke (mm)	Stroke (in.)	Stroke (mm)	Stroke (in.)	Stroke (mm)	Stroke (in.)	Stroke (mm)	Stroke (in.)	Stroke (mm)	Stroke (in.)	Stroke (mm)	Stroke (in.)		
ATC-70 TRX-70 72cc 47mm	1978-85 1986-87 Single 1.850"	CC	H-100																						
TRX-90R TRX-90EX, X 86cc 47mm	1993-06 2007-22 Single 1.850"	CC	H-5229																						
ATC-110 105cc 52mm	1979-85 Single 2.047"	CS	H-102			53.50	.060	(81-85) 2416																	
ATC-125M 124cc Single 55mm	1984-85 2.165"	CS/L	H-840																						
ATC-125M 125cc 54mm	1986-87 Single 2.126"	CS	H-987																						
TRX-125 124cc 55mm	1985-86 Single 2.165"	CS/L	H-840																						
TRX-125 125cc 54mm	1987-88 Single 2.126"	CS	H-987																						
ATC-185 180cc 63mm	1980-83 Single 2.480"	CS	H-3			63.00 63.25 63.50 63.75 64.00 64.25 64.50 65.00 65.50 66.00 66.50	Std. .010 .020 .030 .040 .050 .060 .080 .100 .120 .140	2423 2424 2425 2426																	
ATC-200, E, ES, M TRX-200 192cc 65mm	1981-86 1984 Single 2.559"	CI	H-103			103K (10.25:1) 103K-1 (12:1)		10.25:1 Comp. 2430 2431 2432 2433 2434																	
ATC-200X TRX-200SX Fat Cat 200 199cc 65mm	1986-87 1986-88 1986-87 Single 2.559"	CS	H-989			989K (10.25:1) 989K-1 (12:1)		10.25:1 Comp. 2440 2441 2442 2443 2444																	

ARCTIC CAT  
CAN-AM  
**HONDA**  
KAWASAKI  
KTM  
KYMCO  
POLARIS  
SUZUKI  
YAMAHA  
KITS  
UNIBAT  
AP BRAKES



MODEL  
Engine Description  
Cylinder I.D. (mm/in.)



SLEEVE

REBUILD KIT  
Sleeve + Piston  
Gasket + I.E. Bearing

BORE SIZE (mm)

PISTON SIZE

TOP END

TOP END

VALVE TRAIN

BOTTOM END

PRO-X PISTON

LAPC PISTON

WISECO PISTON

WOSSNER PISTON

VERTEX PISTON

JE PISTON

COMETIC GASKET

L.A. SLEEVE GASKET

CYLINDER AFTERMARKET KITS

VALVE VALVE SPRING KIT

VALVE GUIDE

CAMSHAFT

CAM CHAIN

CRANKSHAFT

CON-ROD KIT

CRANK BEARING

ENGINE OIL SEAL KIT

HONDA FOUR-STROKE (CONTINUED)

MODEL	Year Range	CS	H	Part No.	Bore (mm)	Stroke (mm)	Comp.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.	Part No.			
TRX-200 TRX-200D 199cc 65mm	1990-91 1991-97 Single 2.559"	CS	H-989	989K-2	65.00 65.25 65.50 65.75 66.00 66.50	Std. .010 .020 .030 .040 .060	2450							Top End C7222	Top End 35-1268		(IN / EX Set) 07-015					6328C3	49-822255		
ATC-250, SX, ES TRX-250 246cc 74mm	1985-87 1985-87 Single 2.913"	RS	H-5028		74.00 74.25 74.75 75.00 75.50	Std. .010 .030 .040 .060	2480							Top End C7026	Complete w/oil seals 37-1802		(IN / EX Set) 07-019				Pro-X 01354		49-822168		
Four Trax 250X 246cc 74mm	1987-88 1991-92 Single 2.913"	RS	H-5028	5028K	74.00 74.50 75.00 75.50 76.00	Std. .020 .040 .060 .080	2460	12:1 Comp. 4440M07400 4440M07450 4440M07500 4440M07550 4440M07600						Top End C7143-EST	Top End 35-1430		(IN / EX Set) 07-0162 (1987-92)	Valve Guide IN / EX 30-3030	Hot Cams Camshaft 1058-1	CC-021	Pro-X 01354	6328C3			
TRX-250D Recon 229cc 68.5mm	1997-01 Single 2.697"	RS	H-5366	5366K	68.50 69.00 69.50	Std. .020 .040	9.2:1 Comp. 2610 2612 2614								Top End 35-0841	Complete w/oil seals 37-1841		(IN / EX Set) 07-021			CC-026		6207C3	49-822211	
TRX-250EX, Sportrax Fourtrax 250 X, Recon TRX-250 TE, TM 229cc 68.5mm	2001-08 2002-22 2002-22 Single 2.697"	CS	H-5560	5560K	68.50 69.00 69.50  68.50 69.00 69.50	Std. .020 .040  Std. .020 .040	10:1 Comp. 2620 2622 2624	10:1 Comp. 40061M06850 40061M06900 40061M06950	10:1 Comp. 8870DA 8870D050 8870D100	9.2:1 Comp. VT24257 VT24257050 VT24257100				Top End C3153-EST	Top End 35-0888	Complete w/oil seals 37-1888 (01-02) 37-1905 (03-22)	(IN / EX Set) 07-026 TRX-250EX (01-08)  07-032 TRX-250 TE, TM (02-22)			CC-026	Hot Rods HR4491 (thru 2019)	Hot Rods HR8691 (thru 2019)	6207C3 Bearing / Seal Kit 49K077		Hot Rods Bottom End Kit CBK0186 Includes Crankshaft, Bearings Seals, Complete Gasket Set
TRX-300 FW 2 Valve TRX-300 282CC 74mm	1988-00 Single 2.913"	RS	H-5062		74.00 74.50 74.75 75.00 75.50 76.00	Std. .020 .030 .040 .060 .080	10.25:1 Comp. 2470 2472 2473 2474 2476	10.5:1 Comp. 4629M07400 4629M07450							Top End 35-1400	Complete w/oil seals 37-1400	(IN / EX Set) 07-020			CC-1393	Pro-X 01357		49-822168		
TRX-300 EX, X 4 Valve 282cc 74mm	1993-09 Single 2.913"	RS	H-5062	5062K	74.00 74.25 74.50 75.00 75.50 76.00	Std. .010 .020 .040 .060 .080	11:1 Comp. 2590 2591 2592  2496	11:1 Comp. 4574M07400	11:1 Comp. 8675DA  8675D050 8675D100 8675D150 8675D200				Top End C7143-EST (75mm)	Top End 35-1430		(IN / EX Set) 07-0162	Valve Guide IN / EX 30-3030	Hot Cams Camshaft 1058-1	CC-1393	Pro-X 01357		49-822146			
ATC-350X Four Trax 350 350cc 81mm	1985-86 1986-89 Single 3.189"	RS/L	H-952		81.00 81.50 82.00	Std. .020 .040	10.25:1 Comp. 4393M08100 4393M08150 4393M08200	10.25:1 Comp. 8598DA 8598D050 8598D100					Top End C7402 (ATC)			(IN / EX Set) 07-0182									
							12:1 Comp. 4396M08100 4396M08150 4396M08200																		

ARCTIC CAT  
CAN-AM  
HONDA  
KAWASAKI  
KTM  
KYMCO  
POLARIS  
SUZUKI  
YAMAHA  
KITS  
UNIBAT  
AP BRAKES



**MODEL**  
Engine Description  
Cylinder I.D. (mm/in.)



**SLEEVE**

**REBUILD KIT**  
Sleeve + Piston  
Gasket + I.E. Bearing

**BORE SIZE (mm)**

**PISTON SIZE**

**TOP END**

**TOP END**

**VALVE TRAIN**

**BOTTOM END**

**PRO-X PISTON**

**LAPC PISTON**

**WISECO PISTON**

**WOSSNER PISTON**

**VERTEX PISTON**

**JE PISTON**

**COMETIC GASKET**

**L.A. SLEEVE GASKET**

**CYLINDER AFTERMARKET KITS**

**VALVE VALVE SPRING KIT**

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**CAM CHAIN**

**CRANKSHAFT**

**CON-ROD KIT**

**CRANK BEARING**

**ENGINE OIL SEAL KIT**

**HONDA FOUR-STROKE (CONTINUED)**

MODEL	Year	Configuration	Stroke	Displacement (cc)	Bore (mm)	Stroke (mm)	Compression Ratio	Top End	Bottom End	Valve Train	Other	Part Numbers					
TRX350TM Rancher 2000-06 TRX350ES Rancher 2000-09 329cc Single 78.5mm 3.090"	RS	H-5443	5443K	78.50 79.00 79.50 80.00	Std. .020 .040 .060	01.1480.000 01.1480.050 01.1480.100 01.1480.150	8.8:1 Comp. 8.8:1 Comp. 8.8:1 Comp. 8.8:1 Comp.	4933M07850 4933M07900 4933M07950	8871DA 8871D050 8871D100	VT24258 VT24258050 VT24258100	Top End 35-0867  Complete w/oil seals 37-1867	Cylinder 05011 (Std. 78.5mm)  Complete Cylinder Kit 05011-K01 (Std. 78.5mm)	CC-1480 (00-06) Hot Rods HR4409 (00-06) Hot Rods HR8698 (00-06) Hot Rods Bottom End Kit CBK0182 Includes Crankshaft, Bearings, Seals, Complete Gasket Set	49-822236 Bearing / Seal Kit 49K078			
TRX-400FW 4x4 Foreman 400 395cc Single 86mm 3.386"	RS	H-5286	5286K	86.00 86.50 87.00	Std. .020 .040	8.2:1 Comp. 8.2:1 Comp. 8.2:1 Comp.	2660 2662 2664	4669M08600 4669M08600 4669M08700	8599DA 8599D050 8599D100	Top End C7301  Complete w/oil seals 37-1858	(IN / EX Set) 07-024	CC-1485		49-822208			
TRX-400 EX TRX-400 X 4 Valve 397c Single 85mm 3.346"	RS	H-5293	5293K	85.00 85.25 85.50 85.75 86.00 87.00	Std. .010 .020 .030 .040 .080	10:1 Comp. 10:1 Comp. 10:1 Comp. 10:1 Comp.	2500 2501 2502 2503 2504	4606M08500 4606M08550 4606M08600 4606M08700	8604DA 8604D050 8604D100 8604D200	VT23162 VT23162050 VT23162100	Top End C7825-EST (SS Head)  C7924-EST (87mm)  Complete w/oil seals 37-1829 (99-04) 37-1894 (05-09)	Intake 28-14952 Exhaust 28-14951 Set 28-1495S  Valve Springs 30-3111	Valve Guide IN / EX 30-3120  O/S +.001 30-3121	Hot Cams Camshaft 1007-1 (Stage 1) 1043-2 (Stage 2) 1051-3 (Stage 3)	CC-1496 Hot Rods HR4040 Hot Rods HR8609 Hot Rods Bottom End Kit CBK0016 Includes Crankshaft, Bearings, Seals, Complete Gasket Set	49-822278 Bearing / Seal Kit 49K014	
TRX-400EX Big Bore to 425cc, 435cc 88mm 3.464" 89mm 3.504"	BB	H-5445		88.00 88.00 89.00 89.00	.120 .120 .160		10:1 Comp. 11:1 Comp. 12.5:1 Comp.	4606M08800 4628M08800 4667M08900	VT23234300 8604D300 8604D400	10:1 Comp. 11:1 Comp. 12:1 Comp.	Top End C7826-EST (SS Head)	Intake 28-14952 Exhaust 28-14951 Set 28-1495S  Valve Springs 30-3111	Valve Guide IN / EX 30-3120  O/S +.001 30-3121	Hot Cams Camshaft 1007-1 (Stage 1) 1043-2 (Stage 2)	CC-1496 HR4040 HR8609	Bearing / Seal Kit 49K014	
FourTrax 400 Rancher AT 397cc Single 85mm 3.346"	RS	H-5630	5630K	85.00 85.50 86.00	Std. .020 .040	Stock Comp. 65.1870A 65.1870.050 65.1870.100					Top End 35-0902		CC-1480				
FourTrax 420 Rancher AT 420 420cc Single Liquid Cooled 86.5mm 3.406"  Resleeving required for oversizes 87.50, 88.00, 88.50mm	CI	H-5497	5497K (09-22)	86.50 87.00 87.50 88.00 88.50	Std. .020 .040 .060 .080	Stock Comp. 01.1487.000 01.1487.050 01.1487.100 01.1487.150 01.1487.200	Stock Comp. 65.1872A 65.1872.050 65.1872.100	Stock Comp. 40050M08650 40050M08700 40050M08750 40050M08800 40050M08850	8869DA 8869D050 8869D100 8869D150 8869D200	VT24259 VT24259050	Top End 35-0943 (09-22)		CC-1487	49-822351 Bearing / Seal Kit 49K086			
TRX-450ES, S Foreman 1998-04 433cc Single 90mm 3.543"	RS	H-5365	5365K	90.00 90.50 91.00 91.50 92.00	Std. .020 .040 .060 .080	9:1 Comp. 01.1498.000 01.1498.050 01.1498.100 01.1498.200	9:1 Comp. 2670 2672 2674	4825M09000 4825M09050 4825M09100 4825M09150 4825M09200			Top End 35-0859  Complete w/oil seals 37-1859		CC-1485		49-822209		
TRX-450R 450cc Liquid Cooled 94mm 3.700"  Cylinder Works Cylinder Kits Include Cylinder, Piston Kit and Gaskets  Resleeving required for oversizes	AC	H-5561	5561K	94.00 94.01 96.00 94.00 96.00 94.00 96.00	Std. Std. .080 Std. .080 Std. .080	10.5:1 Comp. 2600A 2600B  10.5:1 Comp. 4849M09400 4849M09600  13.5:1 Comp. 4851M09400	10.5:1 Comp. 4848M09400  11.5:1 Comp. 4849M09400 4849M09600  13.5:1 Comp. 4851M09400	10.5:1 Comp. 8609DA 8609DB  11.5:1 Comp. 8719DA  13.1:1 Comp. VT23546A	VT23163A VT23163B  VT23545A  VT23546A	11.5:1 Comp. 221771  12:1 Comp. 262285  13:1 Comp. 221767 221770	Top End C7877-EST (94mm)  C7199-EST (95mm)  C7878-EST (96mm)  C7201-EST (97mm)	Top End 35-1494  Cylinder Works 10003 (Std. 94mm)  Cylinder Works Complete Kit 10003-K01 (Std. 94mm)  Big Bore Complete Kit 11003-K01 (479cc, 97mm)	Intake 30-30750 Exhaust 30-30753 Valve Springs 30-30720	Valve Guide Intake 30-30730 Exhaust 30-30740	Hot Cams Camshaft 1016-1 (Stage 1) 1024-2 (Stage 2) 1056-3 (Stage 3)	CC-1494 Hot Rods HR4060 Hot Rods HR8632 Hot Rods Bottom End Kit CBK0097 Includes Crankshaft, Bearings, Seals, Complete Gasket Set	49-822237 Bearing / Seal Kit 49K046

ARCTIC CAT  
CAN-AM  
HONDA  
KAWASAKI  
KTM  
KYMCO  
POLARIS  
SUZUKI  
YAMAHA  
KITS  
UNIBAT  
AP BRAKES





**MODEL**  
Engine Description  
Cylinder I.D. (mm/in.)



**SLEEVE**

**REBUILD KIT**  
Sleeve + Piston  
Gasket + I.E. Bearing

**BORE SIZE (mm)**

**PISTON SIZE**

**TOP END**

**TOP END**

**VALVE TRAIN**

**BOTTOM END**

**PRO-X PISTON**

**LAPC PISTON**

**WISECO PISTON**

**WOSSNER PISTON**

**VERTEX PISTON**

**JE PISTON**

**COMETIC GASKET**

**L.A. SLEEVE GASKET**

**CYLINDER AFTERMARKET KITS**

**VALVE VALVE SPRING KIT**

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**CAMSHAFT**

**CAM CHAIN**

**CRANKSHAFT**

**CON-ROD KIT**

**CRANK BEARING**

**ENGINE OIL SEAL KIT**

**HONDA FOUR-STROKE (CONTINUED)**

MODEL	BB	H	BORE	PISTON	PRO-X PISTON	LAPC PISTON	WISECO PISTON	WOSSNER PISTON	VERTEX PISTON	JE PISTON	COMETIC GASKET	L.A. SLEEVE GASKET	CYLINDER AFTERMARKET KITS	VALVE VALVE SPRING KIT	VALVE GUIDE	CAMSHAFT	CAM CHAIN	CRANKSHAFT	CON-ROD KIT	CRANK BEARING	ENGINE OIL SEAL KIT	
<b>TRX-450R to 480cc</b> 97mm 479cc 98mm 489cc 99mm 499cc  Complete Cylinder Kit Includes Big Bore Cylinder, Piston Kit, and Top End Gasket Kit.	BB	H-5561B						10.5:1 Comp. 8610DA	10.5:1 Comp. VT23531A	12:1 Comp. 221834												
<b>TRX-450R 2006-09</b> <b>TRX-450ER 2006-14</b> 450cc Liquid Cooled 96mm 3.780"  Cylinder Works Cylinder Kits Include Cylinder, Piston Kit and Gaskets  Resleeving required for oversizes	AC	H-5537	5537K-1	96.00 98.00	Std. .080	12:1 Comp. 01.1496A	12:1 Comp. 4899M09600	12:1 Comp. 8660DA 8660D200	12:1 Comp. VT23522A	13:1 Comp. 274189 274615		Top End C3139-EST (96mm) C3141-EST (98mm)	Top End 35-1497	Cylinder Works Plated Bore <b>10005</b> (Std. 96mm)  Cylinder Works Complete Kit <b>10005-K01</b> (Std. 96mm)	Intake 30-30950  Exhaust 30-30953  Valve Springs 30-30920	Valve Guide Intake 30-30930  O/S +.001 30-30931  Exhaust 30-30940  O/S +.001 30-30941	Hot Cams Camshaft <b>(06-07)</b> 1016-1 (Stage 1) 1024-2 (Stage 2)  <b>(08-14)</b> 1105-1 (Stage 1) 1106-2 (Stage 2)	CC-1403	Hot Rods HR4070	Hot Rods HR8660  Pro-X 03.1405		49-822312
<b>TRX-450R, ER 2006-14</b> Big Bore to 477cc 99mm  Repair Sleeve for Athena 490cc Big Bore Cylinder  Reduces Bore to 98mm-99mm  Complete Cylinder Kit Includes Big Bore Cylinder, Piston Kit, and Top End Gasket Kit.	BB	H-5537B		99.00	.120				12:1 Comp. VT23523A	12.5:1 Comp. 325026		Top End C3272-EST (99mm)  C3156-EST (101mm)	Complete Kit <b>11005-K01</b> (477cc, 99mm)									
<b>TRX-500 FE, FM 2005-11</b> <b>FourTrax Foreman 4x4</b> 475cc Single Air Cooled 92mm 3.622"	RS	H-5591	5591K	92.00 92.50 93.00 93.50	Std. .020 .040 .060	9.2:1 Comp. 01.1501.000 01.1501.050 01.1501.100	8.5:1 Comp. 65.1871A 65.1871.050 65.1871.100	8.5:1 Comp. 8902DA 8902D050 8902D100 8902D150	8.5:1 Comp. VT24261 VT24261050 VT24261100			Top End 35-0896  Complete w/oil seals 37-1896 (FE, FPE)	(IN / EX Set) 07-031 X2					Hot Rods HR4410	Hot Rods HR8699		49-822276	
<b>TRX-500 FE, FM, FA 2012-19</b> <b>FourTrax Foreman 4x4</b> <b>Foreman Rubicon</b> 475cc Single Liquid Cooled 92mm 3.622"	CS	H-5767		92.00 92.50 93.00	Std. .020 .040		9.5:1 Comp. 65.1873A 65.1873.050 65.1873.100	10:1 Comp. 40174M09200 40174M09250	9.5:1 Comp. VT24260 VT24260050 VT24260100			Top End 35-0999  Complete w/seals 37-0024 (FE, FPE)					CC-1487					49-822351
<b>Pioneer 500 SXS 2015-22</b> <b>475cc Single Liquid Cooled</b> 92mm 3.622"	CS	H-5767		92.00 92.50 93.00	Std. .020 .040		9.5:1 Comp. 65.1873A 65.1873.050 65.1873.100	10:1 Comp. 40174M09200 40174M09250	9.5:1 Comp. VT24260 VT24260050 VT24260100			Top End 35-0999										49-822351

ARCTIC CAT  
CAN-AM  
HONDA  
KAWASAKI  
KTM  
KYMCO  
POLARIS  
SUZUKI  
YAMAHA  
KITS  
UNIBAT  
AP BRAKES



MODEL  
Engine Description  
Cylinder I.D. (mm/in.)



SLEEVE

REBUILD KIT  
Sleeve • Piston  
Gasket • I.E. Bearing

BORE SIZE (mm)

PISTON SIZE

TOP END

TOP END

VALVE TRAIN

BOTTOM END

PRO-X PISTON

LAPC PISTON

WISECO PISTON

WOSSNER PISTON

VERTEX PISTON

JE PISTON

COMETIC GASKET

L.A. SLEEVE GASKET

CYLINDER AFTERMARKET KITS

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CAMSHAFT

CAM CHAIN

CRANKSHAFT

CON-ROD KIT

CRANK BEARING

ENGINE OIL SEAL KIT

HONDA FOUR-STROKE (CONTINUED)

MODEL	Year	CS	H	5504K	92.00	Std.	9.2:1 Comp.	8.3:1 Comp.	8.5:1 Comp.	9.2:1 Comp.	JE PISTON	COMETIC GASKET	L.A. SLEEVE GASKET	CYLINDER AFTERMARKET KITS	VALVE VALVE SPRING KIT	VALVE GUIDE	CAMSHAFT	CAM CHAIN	CRANKSHAFT	CON-ROD KIT	CRANK BEARING	ENGINE OIL SEAL KIT	
TRX-500FA FourTrax Foreman Rubicon 499cc Single Liquid Cooled 92mm 3.622"	2002-14	CS	H-5504	5504K	92.00 92.50 93.00 93.50	.Std. .020 .040 .060	01.1501.000 01.1501.050 01.1501.100	40173M09200 40172M09250	8902DA 8902D050 8902D100 8902D150					Top End 35-0843  Complete w/oil seals 37-1843	(IN / EX Set) 07-025 X2				CC-1501				49-822210
FourTrax Rincon 649cc 100mm	2003-05 Single 3.937"	AC	H-5505		100.00	Std.		11:1 Comp. 40067M10000			12.5:1 Comp. 222094				(IN / EX Set) 07-027 X2				CC-1603				
FourTrax Rincon 680 Big Red MUV 675cc Single Liquid Cooled 102mm 4.015"	2006-22 2009-13	CI	H-5621		102.00 102.50 103.00	.Std. .020 .040	01.1714.000 01.1714.050 01.1714.100	10:1 Comp. 40066M10200  40066M10300		9.2:1 Comp. VT24484 VT24484050		Top End C3475-EST (Rincon)		(IN / EX Set) 07-027 X2					CC-1603				
Pioneer 700 SXS 675cc Single Liquid Cooled 102mm 4.015"	2014-22	CI	H-5621		102.00 102.50 103.00	.Std. .020 .040	01.1714.000 01.1714.050 01.1714.100	10:1 Comp. 40066M10200  40066M10300		9.2:1 Comp. VT24484 VT24484050									CC-1603				
TRX-700XX 686cc Single Liquid Cooled 102mm 4.015"  Cylinder Works Cylinder Kits Include Cylinder, Piston Kit and Gaskets	2008-12	CI	H-5689		102.00 103.00 104.00	.Std. .040 .080	01.1708.000 01.1708.100	10.5:1 Comp. 40075M10200 40075M01300 40075M10400		10.1:1 Comp. VT23638A	12:1 Comp. 308417  308418	Top End C3420-EST  C3286-EST (104mm)	Top End 35-0021	Cylinder 10009 (Std. 102mm)  Cylinder Works Complete Kit 10009-K01 (Std. 102mm)	Intake 30-31362  Exhaust 30-31366  Valve Springs 30-31350	Valve Guide Intake 30-31370  O/S +.001 30-31371  Exhaust 30-31380  O/S +.001 30-31381	Hot Cams Camshaft (08-09) 1134-1 (Stage 1)  1135-2 (Stage)  1136-3 (Stage 3)	CC-2419				Bearing / Seal Kit 49K060	
Pioneer 1000 SXS 1000cc Twin Liquid Cooled 92mm 3.622"	2016-21	CI	H-5800		92.00 92.50	.Std. .020				10:1 Comp. VT24486 VT24486050													
Talon 1000R SXS 1000cc Twin Liquid Cooled 92mm 3.622"	2019-22	CI	H-5800		92.00 92.50	.Std. .020				10:1 Comp. VT24485 VT24485050													

ARCTIC CAT  
CAN-AM  
HONDA  
KAWASAKI  
KTM  
KYMCO  
POLARIS  
SUZUKI  
YAMAHA  
KITS  
UNIBAT  
AP BRAKES



**MODEL**  
Engine Description  
Cylinder I.D. (mm/in.)



**SLEEVE**

**REBUILD KIT**  
Sleeve • Piston  
Gasket • T.E. Bearing

**BORE SIZE (mm)**

**PISTON SIZE**

**TOP END**

**TOP END**

**BOTTOM END**

PRO-X PISTON

LAPC PISTON

WISECO PISTON

WOSSNER PISTON

VERTEX PISTON

T.E. BEARING

COMETIC GASKET

L.A. SLEEVE GASKET

CRANKSHAFT

CON-ROD KIT

CON-ROD ASSEMBLY  
Rod • Bearings • Seals

CRANK BEARING

CRANK SEAL KIT

**KAWASAKI TWO-STROKE**

<b>KFX-50</b> 49cc 41mm	<b>2003-06</b> 1.614"	CC	<b>FL-5492</b>	41.00 41.50 42.00 42.50 43.00	Std. .020 .040 .060 .080	01.3001 01.3001.100 01.3001.150		826M04100 826M04150 826M04200 826M04300				T.E. Bearing B1000		Top End 35-0850					
<b>KFX-80</b> 82cc 50mm	<b>2003-06</b> 1.968"	RS	<b>FL-5369</b>	50.00 50.25 50.50 51.00 51.50 52.00	Std. .010 .020 .040 .060 .080	5210 5212 5214 5216		673M05000 673M05025 673M05050 673M05100 673M05150 673M05200	8282DA 8282D050 8282D100 8282D150 8282D200			T.E. Bearing 01215	Top End C7229	Top End 35-0849  Complete w/oil seals 37-1849	Pro-X 04932	39-4932	6204C3 Bearing / Seal Kit 494397	094397	
<b>KXT-250 Tecate</b> 249cc 70mm	<b>1984-85</b> Liquid Cooled 2.756"	AC	<b>KA-795</b>	70.00 70.50 71.00	Std. .020 .040			439M07000 439M07050 439M07100				T.E. Bearing 01337	Top End C7049	Complete w/oil seals 37-1818	Pro-X 04967  Hot Rods HR8108	39-6305	6305C3 Bearing / Seal Kit 496305	094488	
<b>KXT-250 Tecate KIPS</b> 249cc 70mm	<b>1986-87</b> Liquid Cooled 2.756"	AC	<b>KA-949</b>	70.00 70.50 71.00	Std. .020 .040			439M07000 439M07050 439M07100				T.E. Bearing 01337	Top End C7038	Complete w/oil seals 37-1819	Pro-X 04967  Hot Rods HR8108	39-6305	6305C3 Bearing / Seal Kit 496305	094488	
<b>KFX-250 Tecate 4</b> 249cc 67.4mm	<b>1987-88</b> Liquid Cooled 2.652"	AC	<b>KA-5007</b>	5007K 67.40 68.50 69.50	Std. .045 .084			556M06740 556M06850 556M06950				T.E. Bearing 01337	Top End C7039	Complete w/oil seals 37-1820	Pro-X 04967  Hot Rods HR8108	39-4961	6328C3 Bearing / Seal Kit 494488	094491	
<b>KXF-250 to 295cc Big Bore Tecate 4</b> 73mm (Head Modification Required)	<b>1987-88</b> 2.874"		<b>KA-5007B</b>	73.00 74.00	Std. .040		W5007PS W5007P4  <b>Limited to Available Stock</b>					T.E. Bearing 01337	Top End GS5007		Pro-X 04967  Hot Rods HR8108	39-4961	6328C3 Bearing / Seal Kit 494488	094491	

ARCTIC CAT  
CAN-AM  
HONDA  
KAWASAKI  
KTM  
KYMCO  
POLARIS  
SUZUKI  
YAMAHA  
KITS  
UNIBAT  
AP BRAKES



MODEL  
Engine Description  
Cylinder I.D. (mm/in.)



SLEEVE

REBUILD KIT  
Sleeve • Piston  
Gasket • I.E. Bearing

BORE SIZE (mm)

PISTON SIZE

TOP END

TOP END

VALVE TRAIN

BOTTOM END

PRO-X PISTON

LAPC PISTON

WISECO PISTON

WOSSNER PISTON

VERTEX PISTON

JE PISTON

COMETIC GASKET

L.A. SLEEVE GASKET

CYLINDER AFTERMARKET KITS

VALVE VALVE SPRING KIT

VALVE GUIDE

CAMSHAFT

CAM CHAIN

CRANKSHAFT

CON-ROD KIT

CRANK BEARING

ENGINE OIL SEAL KIT

KAWASAKI FOUR-STROKE

MODEL	Year	Configuration	Part No.	5063K	67.00	Std.	9.3:1 Comp.	9.3:1 Comp.	11.5:1 Comp.	11:1 Comp.	Top End	Top End	Cylinder	(IN / EX Set)	Valve Guide	Valve Springs	Top End	Top End	Cylinder	(IN / EX Set)	Valve Guide	Hot Cams	CC-3403	HR4059	Pro-X	6306RI	49-822201	
KFX-90 89cc 47mm	2007-22	CI	KA-5674								Top End 35-0952																	
KLT-110 KLF-110 Mojave	1984-86 1987-88	RS/L	KA-860											(IN / EX Set) 07-112												6304C3		
KLT-160 A1	1985	RS/L	KA-741											(IN / EX Set) 07-111												6305C3		
KLF-185 Bayou KLT-185	1985-88 1986-87	RS/L	KA-857											(IN / EX Set) 07-111												6305C3		
KLT-200	1977-84	RS/L	KA-673											(IN / EX Set) 07-101										Pro-X 01342				
KLF-220 Bayou	1988-02	RS	KA-5063	5063K	67.00 67.50 68.00	Std. .020 .040	9.3:1 Comp. 2880 2882 2884	9.3:1 Comp. 4670M06700 4670M06750 4670M06800			Top End 35-0803	Complete w/oil seals 37-1803	Cylinder 05021 (Std., 67mm)	(IN / EX Set) 07-109													49-822138	
KLF-250 Bayou	2003-11	RS	KA-5506		69.00 69.50 70.00	Std. .020 .040	9:1 Comp. 2890 2892 2894				Top End C7243-EST	Top End 35-0874		(IN / EX Set) 07-109														49-822138
KLT-250	1983-85	RS/L	KA-856											(IN / EX Set) 07-101														
KSF-250 Mojave KFX-250 Mojave	1987-03 2004-05	RS	KA-5018	5018K	74.00 74.50 75.00	Std. .020 .040		11.5:1 Comp. 4418M07400 4418M07450 4418M07500	11:1 Comp. 8596DA 8596D050 8596D100		Top End C7244	Top End 35-0804		(IN / EX Set) 07-1102 (87-04)	Valve Guide 40-4390	Valve Springs 40-4158												49-822323
KLF-300 Bayou KEF-300 Lakota KVF-300 Prairie	1986-05 1995-03 1999-03	CI CS	KA-986 KA-986H		76.00 76.50 77.00 77.50	Std. .020 .040 .060	8.6:1 Comp. 2710 2712 2714	8.6:1 Comp. 4671M07600 4671M07650 4671M07700 4671M07750	8.6:1 Comp. 8597DA 8597D050 8597D100		Top End C7245 (86-87) C7248 (89-05)	Top End 35-0805	Cylinder 05022 (88-03) (Std., 76mm)	(IN / EX Set) 07-101													49-822242 (KLF) 49-822241 (KEF) 49-822244 (KVF)	
KVF-360 Prairie	2003-13	AC	KA-5507											(IN / EX Set) 07-115														
KLF-400 Bayou KVF-400 Prairie	1993-99 1997-02	RS	KA-5167								Top End C7249	Top End 35-0831		(IN / EX Set) 07-1132														
KFX-400	2003-06	AC	FL-5430	5430K	90.00 90.01 91.00 92.00	Std. Std. .040 .080	12.25:1 Comp. 5220A 5220B 5224	12.25:1 Comp. 4713M09000	12.25:1 Comp. 8563DA 8563DB	11.3:1 Comp. VT22951A VT22951B	12:1 Comp. 180297	Top End C7978-EST (92mm)	Top End 35-3402 (90mm)	Cylinder Works 40001 (Std. 90mm)	Intake 28-34022 Exhaust 28-34021 Set 28-3402S	Valve Guide IN / EX 60-60060	Hot Cams Camshaft 2249-1IN (Intake) 2250-1E (Exhaust)										49-822201	
Resleeving required for oversizes  Cylinder Works Complete Kit Includes Cylinder, Piston Kit, Gaskets					90.00 92.00	Std. .080		4713M09200	13.5:1 Comp. 4714M09000 4714M09200	13.5:1 Comp. 8567DA	13.5:1 Comp. VT23550A		Complete w/oil seals 37-3402	Cylinder Works Complete Kit 40001-K01 (Std. 90mm)	Intake O/S Valve +1mm 60-60051													
					90.00 92.00	Std. .080										Exhaust O/S Valve +1mm 60-60054												

ARCTIC CAT  
CAN-AM  
HONDA  
KAWASAKI  
KTM  
KYMCO  
POLARIS  
SUZUKI  
YAMAHA  
KITS  
UNIBAT  
AP BRAKES



**MODEL**  
Engine Description  
Cylinder I.D. (mm/in.)



**SLEEVE**

**REBUILD KIT**  
Sleeve • Piston  
Gasket • I.E. Bearing

**BORE SIZE (mm)**

**PISTON SIZE**

**TOP END**

**TOP END**

**VALVE TRAIN**

**BOTTOM END**

**PRO-X PISTON**

**LAPC PISTON**

**WISECO PISTON**

**WOSSNER PISTON**

**VERTEX PISTON**

**JE PISTON**

**COMETIC GASKET**

**L.A. SLEEVE GASKET**

**CYLINDER AFTERMARKET KITS**

**VALVE VALVE SPRING KIT**

**VALVE GUIDE**

**CAMSHAFT**

**CAM CHAIN**

**CRANKSHAFT**

**CON-ROD KIT**

**CRANK BEARING**

**ENGINE OIL SEAL KIT**

**KAWASAKI FOUR-STROKE (CONTINUED)**

MODEL	Year	Configuration	Part No.	Stroke	Compression Ratio	Top End	Top End	Valve Train	Bottom End					
<b>KFX-400</b> 2003-06 Big Bore 434cc to 450cc 94mm 3.700" 434cc 94.00mm 440cc 94.50mm 443cc 95.00mm 450cc 95.50mm  <i>Complete Cylinder Kit Includes Big Bore Cylinder, Piston Kit, and Top End Gasket Kit.</i>	BB	FL-5430B			12.5:1 Comp.	12.2:1 Comp.	11.5:1 Comp.	12:1 Comp.	Top End C7979-EST (94mm)  C3138-EST (96mm)  Top End GS5430 (97mm)  Cylinder Works Complete Kit <b>41001-K01</b> (434cc, 94mm) Intake 28-34022 Exhaust 28-34021 Set 28-3402S Intake O/S Valve +1mm 60-60051 Exhaust O/S Valve +1mm 60-60054 Valve Springs 60-60045 Valve Guide IN / EX 60-60060 Hot Cams Camshaft 2249-1IN (Intake) 2250-1E (Exhaust) CC-3403 HR4059 Pro-X 04921 Hot Rods HR8630 6306RI Bearing / Seal Kit <b>49K049</b>					
					94.00 .160	94.50 .180	95.00 .200	95.50 .220		4795M09450	8563D400	VT23533	183051	
					94.50 .180						8563D550			
					13.5:1 Comp.					4796M09450			13:1 Comp.	243651
<b>KFX-450R</b> 2008-14 449cc Liquid Cooled 96mm 3.780"  <i>Resleeving required for oversizes</i>	AC	KA-5675	5675K		12.5:1 comp.	12.4:1 Comp.	12.5:1 Comp.	12.4:1 Comp.	12.8:1 Comp.	Top End C3201-EST (96mm)  C3202-EST (98mm)  Top End 35-0920  Complete w/oil seals 37-1920  Steel Intake 40-40562 Steel Exhaust 40-40566 Titanium Exhaust 28-44061 Valve Springs 40-40550 Valve Guide IN / EX 40-40570 Hot Cams Camshaft (Stage 2) 2093-2IN (Intake) 2094-2E (Exhaust) (Stage 3) 2095-3IN (Intake) 2096-3E (Exhaust) CC-2706 HR4086 Hot Rods HR8671 Bearing / Seal Kit <b>49K056</b>  Hot Rods Bottom End Kit <b>CBK0121</b> <i>Includes Crankshaft, Bearings Seals, Complete Gasket Set</i>				
					96.00 Std.	96.00 Std.	96.00 Std.	96.00 Std.	4973M09600		8773DA 8773DB	VT23543A VT23543B	261971	
					96.00 Std.	98.00 .080			4974M09600			VT23544A	261972 261551	
					96.00 Std.						14:1 Comp. 8709DA (Pro Series)		13.8:1 Comp. 261970 (Pro Series)	
<b>KVF-650 Prairie</b> 2002-10 <b>Brute Force</b> 2002-03 2005-10 633cc Liquid Cooled V-Twin 80mm 3.150"	RS	KA-5508			11:1 Comp.	11:1 Comp.				Top End C7981-EST  C7982-EST (83mm)  Top End 35-0879  Complete w/oil seals 37-1879  Intake 40-40412 Exhaust 40-40416 Valve Springs 40-40400 Valve Guide IN / EX 40-40420 Hot Cams Camshaft 2036-1S 49-822251				
					80.00 Std.	80.50 .020	81.00 .040	81.50 .060	82.00 .080		4782M08000	8863DA 8863D050 8863D100 8863D150 8863D200		
									4782M08100					
									4782M08200					
<b>KVF-650 Prairie</b> 2002-10 Big Bore to 750cc 87mm .425"	BB	KA-5526B						11:1 Comp. 221786		Top End GS5526  Hot Cams Camshaft 2036-1S				
<b>Brute Force 650 4x4i</b> 2005-16 633cc Liquid Cooled V-Twin 80mm 3.150"	AC	KA-5676			11:1 Comp.	11:1 Comp.				Top End C7981-EST  35-0953 (4x4i)  Complete w/oil seals 37-1879  37-1953 (4x4i)  Intake 40-40412 Exhaust 40-40416 Valve Springs 40-40400 Valve Guide IN / EX 40-40420 Hot Cams Camshaft 2036-1S (06-11) 49-822251				
					80.00 Std.				4782M08000		8863DA			
<b>KFX-700 Prairie 700</b> 2004-10 2004-06 697cc Liquid Cooled Twin 82mm 3.228"	RS	KA-5526			11.5:1 Comp.	11.3:1 Comp.	9.9:1 Comp.	11:1 Comp.		Top End C7982-EST (83mm)  C3125-EST (84mm)  Top End 35-0880  Complete w/oil seals 37-1880  Intake 40-40412 Exhaust 40-40416 Valve Springs 40-40400 Valve Guide IN / EX 40-40420 Hot Cams Camshaft 2036-1S KFX CC-4705 46L (1 req.) HR4089 Hot Rods HR8675 Rod Bolts HR00091 CC-4706 92L (2 req.) Hot Rods Bottom End Kit <b>CBK0177</b> <i>Includes Crankshaft, Bearings Seals, Complete Gasket Set</i>				
					82.00 Std.	82.50 .020	83.00 .040	83.50 .060	84.00 .080		4896M08200	8679DA 8679D050 8679D100 8679D150 8679D200	VT24488 VT24488050	
									4896M08400					
<b>Big Bore to 749cc, 784cc</b> 85mm 3.346" 749cc 87mm 3.425" 797cc	BB	KA-5526B				11.3:1 Comp. 8679D300		11:1 Comp. 221786		Top End GS5526				

ARCTIC CAT  
CAN-AM  
HONDA  
KAWASAKI  
KTM  
KYMCO  
POLARIS  
SUZUKI  
YAMAHA  
KITS  
UNIBAT  
AP BRAKES





**MODEL**  
Engine Description  
Cylinder I.D. (mm/in.)



**SLEEVE**

**REBUILD KIT**  
Sleeve • Piston  
Gasket • I.E. Bearing

**BORE SIZE** (mm)

**PISTON SIZE**

**TOP END**

**TOP END**

**VALVE TRAIN**

**BOTTOM END**

PRO-X PISTON

LAPC PISTON

WISECO PISTON

WOSSNER PISTON

VERTEX PISTON

JE PISTON

COMETIC GASKET

L.A. SLEEVE GASKET

CYLINDER AFTERMARKET KITS

VALVE VALVE SPRING KIT

VALVE GUIDE

CAMSHAFT

CAM CHAIN

CRANKSHAFT

CON-ROD KIT

CRANK BEARING

ENGINE OIL SEAL KIT

**KTM FOUR-STROKE**

<b>450 XC</b> 2008-12 448cc Liquid Cooled 89mm 3.504"  Resleeving required for oversizes	AC	FL-5442		89.00	Std.	11:1 Comp.		11:1 Comp.	11:1 comp.	11:1 Comp.	12.5:1 Comp.		Top End	Top End		Intake					Pro-X	NJ206			
				89.01	Std.	6413A		4941M08900	8581DA	VT23329A	274221					C3263-EST	35-0317		28-65202				04925		
				89.00	Std.	6413B		4942M08900		VT23340A	274219								Exhaust				(08-09)		Bearing / Seal Kit CBS64003
				89.00	Std.			13.5:1 Comp.		13:1 Comp.			C3264-EST			Valve Springs									
<b>450 SX</b> 2009-11 449cc Liquid Cooled 97mm 3.818"  Resleeving required for oversizes	AC	FL-5638	5638K	97.00	Std.	12.5:1 Comp.		12.5:1 Comp.	12.5:1 Comp.	12.5:1 Comp.	12.5:1 Comp.		Top End	Top End		Intake					Pro-X	NJ206	096427		
				97.01	Std.	6427A		4937M09700	8665DA	VT23342A	260955					C3412-EST	35-0331		28-64272				03.6427		Bearing / Seal Kit CBS64007
				97.00	Std.	6427B			8665DB	VT23342B				13:1 Comp.					Exhaust						
				97.00	Std.											Titanium									
<b>505 SX</b> 2009-12 477cc Liquid Cooled 100mm 3.937"  Resleeving required for oversizes	AC	FL-5584		100.00	Std.	12.5:1 Comp.		12.5:1 Comp.	12.5:1 Comp.	12.5:1 Comp.			Top End	Top End		Intake					Pro-X	NJ206	096427		
				100.01	Std.	6508A		4947M10000	8705DA	VT23417A						C3413-EST	35-0942		28-64272				03.6508		Bearing / Seal Kit CBS64007
				100.00	Std.	6508B		4948M10000	8725DA										Exhaust						
				100.00	Std.											Titanium									
<b>525 XC</b> 2008-12 510cc Liquid Cooled 95mm 3.740"  Resleeving required for oversizes	AC	FL-5437	5437K	95.00	Std.	11:1 Comp.		11:1 Comp.	11:1 Comp.	12.5:1 Comp.	12.5:1 Comp.		Top End	Top End		Intake					Pro-X	NJ206			
				97.00	.080	6520A		4731M09500	8547DA	VT22969A	274173					C7944-EST	35-6528		28-65202				04925		Bearing / Seal Kit CBS64003
				95.00	Std.			4731M09700	8547D200							C7691-EST	Complete		Exhaust				Hot Rods		
				97.00	.080			12.5:1 Comp.	12.5:1 Comp.							Valve Springs				HR8666					
				97.00	.080			4732M09500	8637DA							96-96011									
<b>525 XC</b> 2008-12 Big Bore to 565cc 100mm 3.937"	BB	FL-5437B		100.00	.200								Top End			Valve Springs									
																		96-96000							
													GS5437			Exhaust									
													(100mm)			0/S +.001									
																96-96020									
																0/S +.001									
																96-96021									

**KYMCO FOUR-STROKE**

<b>MXU-250</b> 2004-09 249cc Liquid Cooled 72.7mm 2.862"	AC	FL-5613																					
<b>MXU-300</b> 2009-15 <b>Mongoose 300</b> 2009-15 270cc Liquid Cooled 72.7mm 2.862"	AC	FL-5543																					
<b>MXU-500</b> 2008-17 <b>UXV-500</b> 2009-17 499cc Liquid Cooled 92mm 3.622"		FL-5392																					
<b>MXU-700i</b> 2014-17 <b>UXV-700i</b> 2014-17 695cc Single Liquid Cooled 102mm 4.016"	RS	FL-5787																					
<b>MXU, UXV-700</b> 2014-17 Big Bore to 740cc 105mm 4.134"	BB	FL-5787B																					

ARCTIC CAT  
CAN-AM  
HONDA  
KAWASAKI  
KTM  
KYMCO  
POLARIS  
SUZUKI  
YAMAHA  
KITS  
UNIBAT  
AP BRAKES



**MODEL**  
Engine Description  
Cylinder I.D. (mm/in.)



**SLEEVE**

**REBUILD KIT**  
Sleeve • Piston  
Gasket • T.E. Bearing

**BORE SIZE (mm)**

**PISTON SIZE**

**TOP END**

**TOP END**

**BOTTOM END**

PRO-X PISTON

LAPC PISTON

WISECO PISTON

WOSSNER PISTON

VERTEX PISTON

T.E. BEARING

COMETIC GASKET

L.A. SLEEVE GASKET

CRANKSHAFT

CON-ROD KIT

CON-ROD ASSEMBLY  
Rod • Bearings • Seals

CRANK BEARING

CRANK SEAL KIT

**POLARIS TWO-STROKE**

<b>Sportsman 90</b> 2001-06		FL-5596		52.00	Std.			839M05200					Top End C3514	Top End 35-0840				
<b>Scrambler 90</b> 2001-05				52.50	.020			839M05250										
<b>Predator 90</b> 2001-06				53.00	.040			839M05300										
89cc Single				53.50	.060			839M05350										
52mm 2.047"																		
<b>244</b> 244cc 72mm	1985 Single 2.834"	CI	FL-931	931K	72.00	Std.		536M07200	8094DA			T.E. Bearing 01251	Top End C7124	Top End 35-0806		Hot Rods HR8145		
					72.50	.020		536M07250	8094D050									
<b>250 Trail Boss</b> 1986-99		CI	FL-5168	5168K	73.00	.040		536M07300	8094D100			T.E. Bearing 01251	Top End C7124	Top End 35-0806		Hot Rods HR8145		
<b>Trail Blazer</b> 1990-06					73.50	.060		536M07350	8094D150									
<b>Xplorer 4x4</b> 2000-02					74.00	.080		536M07400	8094D200					Complete w/oil seals 37-1806				
244cc 72mm	Air Cooled 2.834"																	
<b>300L</b> Xplorer 300 Xpress 300	1994-99 Single 2.933"	CI	FL-5273	5273K	74.50	Std.		721M07450	8095DA			T.E. Bearing 01251	Top End C7310	Top End 35-0807		Hot Rods HR8145		
283cc 74.5mm					75.00	.020		721M07500	8095D050					Complete w/oil seals 37-1807				
					75.50	.040		721M07550	8095D100									
					76.00	.060		721M07600	8095D150									
					76.50	.080		721M07650	8095D200									
<b>350L Trail Boss</b> 1990-94		CI	FL-5171	5171K	80.00	Std.		639M08000	8096DA			T.E. Bearing 01401	Top End C7144			Hot Rods HR8146		6232C3
352cc 80mm	Liquid Cooled 3.150"				80.50	.020		639M08050	8096D050									
					81.00	.040		639M08100	8096D100									
					81.50	.060		639M08150	8096D150									
					82.00	.080		639M08200	8096D200									
<b>400L</b> Xplorer 400, Scrambler 400 Sport 400, Trail Blazer	1994-03 Liquid Cooled 3.268"	CI	FL-5274	5274K	83.00	Std.		675M08300	8097DA			T.E. Bearing 01401	Top End C7265	Top End 35-0808		Hot Rods HR8146		6232C3
378cc 83mm					83.25	.010		675M08325						Complete w/oil seals 37-1808				
					83.50	.020		675M08350	8097D050									
					84.00	.040		675M08400	8097D100									
					84.50	.060		675M08450	8097D150									
					85.00	.080		675M08500	8097D200									

ARCTIC CAT  
CAN-AM  
HONDA  
KAWASAKI  
KTM  
KYMCO  
**POLARIS**  
SUZUKI  
YAMAHA  
KITS  
UNIBAT  
AP BRAKES









MODEL  
Engine Description  
Cylinder I.D. (mm/in.)



SLEEVE

REBUILD KIT  
Sleeve + Piston  
Gasket + I.E. Bearing

BORE SIZE (mm)

PISTON SIZE

PRO-X PISTON

LAPC PISTON

WISECO PISTON

WOSSNER PISTON

VERTEX PISTON

JE PISTON

COMETIC GASKET

L.A. SLEEVE GASKET

CYLINDER AFTERMARKET KITS

VALVE VALVE SPRING KIT

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CAM CHAIN

CRANKSHAFT

CON-ROD KIT

CRANK BEARING

ENGINE OIL SEAL KIT

TOP END

TOP END

VALVE TRAIN

BOTTOM END

**POLARIS FOUR-STROKE (CONTINUED)**

MODEL	Year	AC	FL	BORE	STROKE	10:1 Comp.	10:1 Comp.	10.2:1 Comp.	10.2:1 Comp.	10.75:1 Comp.	COMETIC GASKET	L.A. SLEEVE GASKET	CYLINDER AFTERMARKET KITS	VALVE VALVE SPRING KIT	VALVE GUIDE	CAMSHAFT	CAM CHAIN	CRANKSHAFT	CON-ROD KIT	CRANK BEARING	ENGINE OIL SEAL KIT
Ranger 800 RZR 800 760cc Twin Liquid Cooled 80mm 3.150"	2005-16 2008-14	AC	FL-5594	80.00 80.01 82.00	Std. Std. .080	10:1 Comp. 5805A 5805B (RZR)	10:1 Comp. 5806A 5806B (Ranger)	10.2:1 Comp. 4961M08000 4961M08200	10.2:1 Comp. VT23643B VT23645A	10.75:1 Comp. 281815 * *(Set of 2) 281814 *	Top End C3250 (08-10)	Top End RZR 35-0945 (08-10)	Cylinder Works 60002 (80mm Std.)	RZR Ranger (11-17) Intake 82-82312 Exhaust 82-82316 Valve Springs 82-82300	RZR Ranger (11-17) IN / EX 82-82320 Seals 71017-4	HC00051		HR4091 (08-16)			49-822353
<i>Resleeving required for oversizes</i>  <i>Cylinder Works Complete Kit Includes Cylinder, Pistons, Gaskets.</i>				80.00 82.00	Std. .080			11:1 Comp. 4962M08000 4962M08200	11:1 Comp. VT23644A	11.5:1 Comp. 324921 * 324922 * *(Set of 2)	C3507 (82mm) (08-10)	Ranger 35-0945 (05-10) 35-0967 (11-16)	Complete Kit Ranger (10) 60002-K04 (11-17) 60002-K05					Hot Rods Bottom End Kit Ranger, RZR (08-10) CBK0123			Main Bearing / Seal Kit 49K084
XP 850 Sportsman 2009-22 Scrambler XP 850 H.O. 2013-22 850cc Twin Liquid Cooled 87mm 3.425"	2009-22 2013-22	CI AC	FL-5395	87.00 87.50 90.00	Std. .020 .120			11.1:1 Comp. 40106M08700	9.3:1 Comp. K8954DA-2 * K8954D050-2 * * Set of 2	11.1:1 Comp. VT24366B	Top End 35-0963 (09-13)	Top End RZR 35-0945 (05-10) 35-0967 (11-16)		Sportsman (09-14) Scrambler (15-18)			HC0116	Hot Rods HR4430	Hot Rods HR8720	Rod Bolts HR00090	49-822188
<i>Resleeving required for oversizes</i>										308408 (Set of 2) 308409 (Set of 2) Big Bore 909cc	Complete w/oil seals 37-1992 (14-21)		Intake HC00036 Exhaust HC00039								Main Bearing / Seal Kit 49K241 (09-13) 49K242 (14-21)
RZR 900 XP EFI Ranger XP 900 ACE 900 875cc Liquid Cooled Mono-Block Twin 93mm 3.661"	2011-22 2011-19 2016-19	AC	FL-5769	93.00 95.00 96.00	Std. .080 .120	(14-21) Stock Comp. 5913A		(11-14) 10.6:1 Comp. 40045M09300 40092M09500	(14-21) RZR XP (15-19) Ranger XP	(14-19) Stock VT24398B	Top End C3446-EST (93.5mm) (11-14)	Top End Ranger, ACE (13-19) 35-0969	Cylinder Works (11-16) 60004 (93mm Std.) (17-22) 60007 (93mm Std.)	Ranger XP900 (13-19) RZR 900 (15-22) Intake 82-82255 Exhaust 82-82258	Valve Guide Intake 82-82270 O/S +.001 82-82271	Hot Cams Camshaft (17-22) HC00043 (Intake)	CC-5511 (11-14) CC-5144 (17-22)	Hot Rods HR00016 Ranger 13-19 ACE 16-19 RZR 15-21	Hot Rods HR8716 Ranger 13-19 ACE 16-19 RZR 15-21		49-822198 (11-15) 49-822200 (17-21)
<i>Resleeving required for oversizes</i>  <i>Cylinder Works Complete Kit Includes Cylinder, Pistons, Gaskets.</i>				93.00 95.00 96.00	Std. .080 .120			12.5:1 Comp. 40046M09300 40093M09500	12:1 Comp. K8930DA-2 * K8930D200-2 * K8930D300-2 *		Top End C3447-EST (96mm) (11-14)	RZR 35-0969 (15-22)	Complete Kit (11-16) 60004-K02 (93mm Std.) (17-22) 60007-K02 (93mm Std.)	Valve Springs 82-82400	Exhaust 82-82420 O/S +.001 82-82421	HC00044 (Exhaust)		HR4423 RZR 13-14 HR8704 RZR 11-14			Main Bearing / Seal Kit 49K101 (18-22) 49K087 (13-17)
<i>Hot Rods Bottom End Kit Call for Specific Year Includes Crankshaft, Bearings, Seals, Complete Gasket Set</i>									* Set of 2	* Set of 2											
900 RZR Big Bore 96mm 932cc to 98mm 971cc <i>Special Siamese Flanged Sleeves</i> <i>Sold as a Set of 2 Sleeves Custom Machining required.</i>	2011-21	BB	FL-5769BX2	96.00 98.00	.120 .200				12:1 Comp. K8930D300-2 * (Set of 2)	11:1 Comp. 306372 (Set of 2)	C3447-EST (96mm)										
									12:1 Comp. K8930D500-2 (Set of 2)	12:1 Comp. 306380 (Set of 2)											
General 1000 999cc Liquid Cooled Mono-Block Twin 93mm 3.661"	2016-22	AC	FL-5777	93.00 95.00	Std. .080			11:1 Comp. 40128M09300	12:1 Comp. K8930DA-2 * K8930D200-2 * * Set of 2	10.5:1 Comp. VT24398B	C3546-EST (94mm)	Top End 35-0969	Cylinder Works 60003 (16) (93mm Std.)	Intake 82-82612 Exhaust 82-82616	Valve Guide Intake 82-82620 Exhaust 82-82630		HC5144	Hot Rods HR4424	Hot Rods HR8708	Rod Bolts HR00080	49-822200
<i>Resleeving required for oversizes</i>  <i>Cylinder Works Complete Kit Includes Cylinder, Pistons, Gaskets.</i>				93.00	Std.				* Set of 2	10.5:1 Comp. 363685 * 11.5:1 Comp. 363387 * * Set of 2	C3563-EST (96mm)	Complete w/oil seals 37-1969	Complete Kit (17-22) 60006-K02	Complete Head Service Kit 82-83150 Includes Std. Valves, Guides Spring Kit, Seals, Gaskets				Hot Rods Bottom End Kit HR00106 (18-20) Includes Crankshaft, Bearings Seals, Complete Gasket Set			Main Bearing / Seal Kit 49K024

ARCTIC CAT  
CAN-AM  
HONDA  
KAWASAKI  
KTM  
KYMCO  
POLARIS  
SUZUKI  
YAMAHA  
KITS  
UNIBAT  
AP BRAKES







**MODEL**  
Engine Description  
Cylinder I.D. (mm/in.)



**SLEEVE**

**REBUILD KIT**  
Sleeve • Piston  
Gasket • I.E. Bearing

**BORE SIZE (mm)**

**PISTON SIZE**

**TOP END**

**TOP END**

**VALVE TRAIN**

**BOTTOM END**

PRO-X PISTON

LAPC PISTON

WISECO PISTON

WOSSNER PISTON

VERTEX PISTON

JE PISTON

COMETIC GASKET

L.A. SLEEVE GASKET

CYLINDER AFTERMARKET KITS

VALVE VALVE SPRING KIT

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CAM CHAIN

CRANKSHAFT

CON-ROD KIT

CRANK BEARING

ENGINE OIL SEAL KIT

**SUZUKI FOUR-STROKE**

MODEL	Year	FL	Stroke	Displacement	Bore	Stroke	Compression	Top End	Bottom End	Valve Train	Other				
QuadSport Z50	2006-09, 2017-22	FL-5624		49cc	36mm	1.417"									
QuadSport Z90	2007-09, 2014-22	FL-5677		90cc	45.5mm	1.791"									
LT, ALT-125	1982-87	CI FL-753		124cc	57mm	2.244"				CC-098	Left 6207C3 Right (83-84) 6328C3 Right (85-87) 6228C3				
LT-160, LT-F160	1989-04	CI FL-5085		158cc	58mm	2.283"		Top End 35-0848		(IN / EX Set) 07-206	CC-098	49-822150			
LT, ALT-185	1984-87	CI FL-865		178cc	63mm	2.480"				CC-098	Left 6207C3 Right 6328C3				
LT-230	1985-94	CI FL-866	866K	229cc	66mm	2.598"	66.00 Std. 66.50 .020 67.00 .040 67.50 .060 68.00 .080	9.2:1 Comp. 2720 10.25:1 Comp. 4382M06600 4382M06650 4382M06700 4382M06750 4382M06800	Top End C7074 (thru 1993)	Complete w/oil seals 37-1809 (thru 1993)	(IN / EX Set) 07-204	Left 6207C3 Right 6328C3 (85-88)	49-822280		
LT-230 Big Bore to 260cc	1985-94	BB FL-866B		70mm	70mm	2.756"	70.00 Std.	W866PS	GS866			Left 6207C3 Right 6328C3 (85-88)	49-822280		
LT-250E, F, G	1985-94	RS FL-754		249cc	72mm	2.834"									
LT-4WD Quadrunner 250 LT-F250F Ozark 250, Z250	1987-14	CI FL-5019		246cc	66mm	2.598"	66.00 Std. 66.50 .020 67.00 .040 67.50 .060 68.00 .080	9.2:1 Comp. 2720 10.25:1 Comp. 4382M06600 4382M06650 4382M06700 4382M06750 4382M06800	8805DA 8805D050 8805D100 8805D150 8805D200	Top End C7260 (88-14)	Top End 35-0810 (87-01) 35-0886 (02-14)	(IN / EX Set) 07-205 (87-01) 07-204 (03-09)	CC-104	Left 6207C3 Right 6328C3	49-822151 (87-01) 49-822254 (02-14)
LT-4WDX300 King Quad LT-F300F	1991-02	CI FL-5136	5136K	280cc	68.5mm	2.697"	68.50 Std. 69.00 .020 69.50 .040	8.5:1 Comp. 2730 8.9:1 Comp. 4673M06900 4673M06950	Top End C7314 (91-00)	Top End 35-0832 Complete w/oil seals 37-1832	(IN / EX Set) 07-205	CC-108	Left 6207C3 Right 6328C3	49-822152	
LT-300E Quadrunner	1987-89	CI FL-5065		293cc	72mm	2.835"			Top End C7459						
Eiger 400 King Quad 400	2002-22	CS FL-5512	5512K (Eiger 02-17) 5512K-1 (King Quad)	376cc	82mm	3.228"	82.00 Std. 82.50 .020 83.00 .040	9:1 Comp. 2740 2742 2744	Top End 35-0846		(IN / EX Set) 07-2072	CC-108 (02-13)		49-822239	

ARCTIC CAT  
CAN-AM  
HONDA  
KAWASAKI  
KTM  
KYMCO  
POLARIS  
SUZUKI  
YAMAHA  
KITS  
UNIBAT  
AP BRAKES





**MODEL**  
Engine Description  
Cylinder I.D. (mm/in.)



**SLEEVE**

**REBUILD KIT**  
Sleeve • Piston  
Gasket • I.E. Bearing

**BORE SIZE (mm)**

**PISTON SIZE**

**TOP END**

**TOP END**

**VALVE TRAIN**

**BOTTOM END**

**PRO-X PISTON**

**LAPC PISTON**

**WISECO PISTON**

**WOSSNER PISTON**

**VERTEX PISTON**

**JE PISTON**

**COMETIC GASKET**

**L.A. SLEEVE GASKET**

**CYLINDER AFTERMARKET KITS**

**VALVE VALVE SPRING KIT**

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**CAM CHAIN**

**CRANKSHAFT**

**CON-ROD KIT**

**CRANK BEARING**

**ENGINE OIL SEAL KIT**

**SUZUKI FOUR-STROKE (CONTINUED)**

<b>Quad Racer LT-R450</b> 2006-11 Big Bore to 493cc 98mm to 100mm  Complete Cylinder Kit Includes Big Bore Cylinder, Piston Kit, and Top End Gasket Kit.	BB	FL-5625B	98.00 100.00	.100 .180			11.7:1 Comp. 4911M09800	11.7:1 Comp. 8667D250	11.7:1 Comp. VT23521A	12.8:1 Comp. 252747		Top End C3157-EST (98mm) C3158-EST (101mm)	Cylinder Works Complete Kit <b>41002-K01</b> (474cc 98mm)											
<b>LT-F500F</b> 1998-06 <b>LT-A500F</b> 2000-17 <b>Vinson 500</b> 2002-08 <b>King Quad 500</b> 2008-22 493cc Single Liquid Cooled 87.5mm 3.444"	AC	FL-5370	87.50 87.51	Std. Std.				<b>Vinson</b> 10.2:1 Comp. 4068DA 4068DB				Top End 35-0828	(IN / EX Set) 07-2072 <b>(98-07)</b>											49-822259
<b>Twin Peaks 700</b> 2004-05 697cc V-Twin Liquid Cooled 82mm 3.228"	CI	KA-5526	82.00 82.50 83.00 83.50 84.00	Std. .020 .040 .060 .080			11.5:1 Comp. 4896M08200	11.3:1 Comp. 8679DA 8679D050 8679D100 8679D150 8679D200	9.9:1 Comp. VT24488 VT24488050	11:1 Comp.		Top End C7982-EST (83mm)  C3125-EST (84mm)	Top End 35-0880  Complete w/oil seals 37-1880	Hot Cam Camshaft (Set IN / EX) 2031-S	CC-092 (2 Req.)  CC-5046 (1 Req.)	Hot Rods HR4089	Hot Rods HR8675 (2 Req.)  Rod Bolts HR00091						49-822251	
<b>King Quad 700</b> 2005-07 695cc Single Liquid Cooled 102mm 4.015"	AC	FL-5595	102.00	Std.				11.5:1 Comp. 8879DA																
<b>King Quad 700</b> 2005-07 Big Bore to 750cc 106mm 4.170"	BB	FL-5595B	106.00	.160			11.5:1 Comp. CPM4014					Top End C3128-EST (106mm)												
<b>King Quad 750 AXI</b> 2009-22 722cc Single Liquid Cooled 104mm 4.094"	AC	FL-5374												Intake 60-61512  Exhaust 60-61516  Valve Springs 60-61550	Valve Guide IN / EX 60-61520  O/S+.001 60-61521									

ARCTIC CAT  
CAN-AM  
HONDA  
KAWASAKI  
KTM  
KYMCO  
POLARIS  
**SUZUKI**  
YAMAHA  
KITS  
UNIBAT  
AP BRAKES







MODEL  
Engine Description  
Cylinder I.D. (mm/in.)



SLEEVE

REBUILD KIT  
Sleeve • Piston  
Gasket • I.E. Bearing

BORE SIZE (mm)

PISTON SIZE

TOP END

TOP END

VALVE TRAIN

BOTTOM END

PRO-X PISTON

LAPC PISTON

WISECO PISTON

WOSSNER PISTON

VERTEX PISTON

JE PISTON

COMETIC GASKET

L.A. SLEEVE GASKET

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CON-ROD KIT

CRANK BEARING

ENGINE OIL SEAL KIT

YAMAHA FOUR-STROKE

MODEL	Year	CI	YA	BORE SIZE (mm)	PISTON SIZE	PRO-X PISTON	LAPC PISTON	WISECO PISTON	WOSSNER PISTON	VERTEX PISTON	JE PISTON	COMETIC GASKET	L.A. SLEEVE GASKET	CYLINDER AFTERMARKET KITS	VALVE VALVE SPRING KIT	VALVE GUIDE	CAMSHAFT	CAM CHAIN	CRANKSHAFT	CON-ROD KIT	CRANK BEARING	ENGINE OIL SEAL KIT				
YFZ-50 49cc 39mm	2017-22 1.535"	CI	YA-5563																				Top End 35-0878			
Moto-4, YFM-80, Badger Raptor 80, Grizzly 1985-08 79cc 47mm	1.850"	CI	YA-941	47.00 47.50 48.00 50.00	Std. .020 .040 .120		9.6:1 Comp. 2810 2812 2814	11:1 Comp. 4841M04700 4841M04750 4841M04800 4841M05000															Top End 35-0851  Complete w/oil seals 37-1851	(IN / EX Set) 07-309		
Raptor 90 88cc 47mm	2016-22 Single 1.850"	CI	YA-5691																							
YFM-100 Champ 98cc 49mm	1987-91 Single 1.929"	CI	YA-5022																					(IN / EX Set) 07-309	6304C3	
YFA 125 Grizzly 125 Breeze 125 124cc 49mm	2005-13 1989-05 Single 1.929"	CI	YA-5230																					Top End 35-0885  Complete w/oil seals 37-1885	(IN / EX Set) 07-310	49-822259
Raptor 125 124cc 54mm	2012-13 Single 2.124"	RS	YA-5426	54.00 54.50 55.00	Std. .020 .040			11:1 Comp. 40068M05400 40068M05450 40068M05500																Top End 35-0640		
Tri-Moto 200, YTM-200L YFM-200 196cc 67mm	1984-91 Single 2.638"	CI	YA-762	762K (85-89) 67.00 67.50 68.00	Std. .020 .040		9:1 Comp. 2820 2822 2824	10.25:1 Comp. 4292M06700 4292M06750 4292M06800				Top End C7095 (85-89)	Top End 35-0642 (85-89)		(IN / EX Set) 07-301 (YFM 85-91) (YTM 83-85)							Pro-X 32320		49-822273		
BW-200N 196cc 67mm	1985-90 Single 2.638"	RS	YA-762																					(IN / EX Set) 07-301	Pro-X 32320	
Tri-Moto 225, YTM-225, YFM-225 223cc 70mm	1984-89 Single 2.756"	RS	YA-812	812K 70.00 70.50 71.00	Std. .020 .040		9.5:1 Comp. 2830 2832 2834	10.25:1 Comp. 4312M07000 4312M07050 4312M07100				Top End C7253 (YFM 86-88)			(IN / EX Set) 07-301										49-822273	
YFB-250 Timberwolf YFM-250 Bear Tracker 1990-00 1999-04 Big Bear 250 Bruin 250 229cc 71mm	2007-09 2005-06 Single 2.795"	RS	YA-5101	5101K 71.00 71.50 72.00 72.50 73.00	Std. .020 .040 .060 .080		Stock Comp. 2840 2842 2844	8.7:1 Comp. 4675M07100 4675M07150 4675M07200	9.5:1 Comp. 8659DA 8659D050 8659D100 8659D150 8659D200			Top End C7254	Top End 35-0824		(IN / EX Set) 07-301											
Raptor 250 249cc 74mm	2008-13 Single 2.913"	AC	YA-5679	5679K 74.00 76.00	Std. .080			10.5:1 Comp. 4951M07400	12:1 Comp. 8724DA 8724D200		10.5:1 Comp. 274194 274195	Top End C3223-EST (74mm)  C3224-EST (76mm)	Top End 35-0924  Complete w/oil seals 37-1924									Hot Rods HR8676	Bearing / Seal Kit 49K059	49-822339		
<i>Resleeving required for oversizes</i>																										
Raptor 250 Big Bore 270cc 277cc 283cc 300cc	77mm 78mm 80mm 81mm	BB	YA-5679B 77mm-78mm	77.00 78.00 80.00 81.00	.120 .160 .240 .280			11:1 Comp. 40078M07400 40078M07600	12:1 Comp. 8724D400 8724D700			Top End C3225-EST (78mm) C3226-EST (80mm) C3236-EST (81mm)														

ARCTIC CAT  
CAN-AM  
HONDA  
KAWASAKI  
KTM  
KYMCO  
POLARIS  
SUZUKI  
YAMAHA  
KITS  
UNIBAT  
AP BRAKES



MODEL  
Engine Description  
Cylinder I.D. (mm/in.)



SLEEVE

REBUILD KIT  
Sleeve + Piston  
Gasket + I.E. Bearing

BORE SIZE (mm)

PISTON SIZE

PRO-X PISTON

LAPC PISTON

WISECO PISTON

WOSSNER PISTON

VERTEX PISTON

JE PISTON

COMETIC GASKET

L.A. SLEEVE GASKET

CYLINDER AFTERMARKET KITS

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CRANKSHAFT

CON-ROD KIT

CRANK BEARING

ENGINE OIL SEAL KIT

TOP END

TOP END

VALVE TRAIN

BOTTOM END

YAMAHA FOUR-STROKE (CONTINUED)

MODEL	Year	RS	Part No.	83.00	Std.	9.2:1 Comp.	9.2:1 Comp.	10.25:1 Comp.	10.5:1 Comp.	10.25:1 Comp.	10.5:1 Comp.		Top End	Top End	05041	Intake	Valve Guide	Hot Cams	CC-2487	Hot Rods	Hot Rods		49-822279	
YFM-350 Grizzly 350 Raptor 350 Bruin 350 Wolverine Warrior Big Bear BW-350 349cc 83mm	2007-14	RS	YA-5024	5024K	83.25	.010	01.2487.000	65.6810A	4419M08300	8605DA	VT23103		C7096-EST (84mm)	35-2160	(83mm Std.)	28-24872 Exhaust 28-24871	IN / EX 80-8010	4017-1 (Stage 1)	Raptor, Warrior	Raptor Warrior HR4043	Raptor Warrior HR8605		Bearing / Seal Kit 49K239	49-822279 (87-99)
	2005-13				83.50	.020	01.2487.050	65.6810.025	4419M08350	8605D050	VT23103050		C3159-EST (85mm)	Complete w/oil seals Raptor, Warrior 37-1813	Valve Springs 80-8000									Hot Rods Bottom Kit CBK0082 Raptor / Warrior Includes Crankshaft, Bearings Seals, Complete Gasket Set
Kodiak 400 Big Bear 400 387cc 83mm	1993-99	RS	YA-5231	5231K	83.25	.010		8.6:1 Comp.	8.6:1 Comp.	8.6:1 Comp.			C7096-EST (84mm)	35-2160		28-24872 Exhaust 28-24871	IN / EX 80-8010	4017-1 (Stage 1)						49-822218 (99-06)
	2000-12				83.50	.020		65.6815.025	4676M08350	8903D050		C3159-EST (85mm)	35-0898 (93-98)	Valve Springs 80-8000										
Kodiak 400 Grizzly 400 401cc 84.5mm (Cylinder No. 5GH)	2000-06	RS	YA-5425	5425K	84.50	.040		Stock Comp.	10.5:1 Comp.	10.5:1 Comp.				Top End 35-0875										49-822247
	2007-08				85.00	.020		4720	40076M08450	8901DA		Complete w/oil seals 37-1875												
Grizzly 450 Kodiak 450 Wolverine 450 421cc 84.5mm (Cylinder No. 5ND)	2007-14	RS	YA-5513	5513K	84.50	.020		10:1 Comp.	11:1 Comp.	11:1 Comp.	10:1 Comp.	10.5:1 Comp.		Top End 35-0875						CC-0116	Hot Rods HR4413	HR8703		49-822247
	2003-06				85.00	.040		4710	4939M08450	8904DA	VT24483	Complete w/oil seals 37-1875												
Kodiak 450 421cc 84.5mm (Cylinder No. 5ND)	2018-22	RS	YA5513	5513K-1	84.50	.020		10:1 Comp.	11:1 Comp.	11:1 Comp.	10:1 Comp.	10.5:1 Comp.		Top End 35-0996						CC-0116				49-822247
					85.00	.040		4712	4939M08500	8904D050	VT24483050	Complete w/oil seals 37-1996												
Rhino 450 421cc 84.5mm (Cylinder No. 5ND)	2006-09	RS	YA-5513	5513K	84.50	.020		10:1 Comp.	11:1 Comp.	11:1 Comp.	10:1 Comp.	10.5:1 Comp.		Top End 35-0875						CC-0116	Hot Rods HR4413	HR8703		49-822247
					85.00	.040		4712	4939M08500	8904D050	VT24483050	Complete w/oil seals 37-1875												
YFZ-450 (Cylinder No. 5TA) 439cc, 449cc Liquid Cooled 95mm	2004-13	AC	YA-5495	5495K	95.00	.040		(04-05) 12:1 Comp.	(04-05) 12:1	(04-05) 12:1	(04-05) 12:1	(06-13)	Top End C3066-EST (96mm)	Top End 35-2434	Cylinder Works 20001 (Std. 95mm)	Intake 1X Titanium 28-24232 Steel	Valve Guides Intake 80-80220	Hot Cams Stage 2 (04-09) 4023-1IN (Intake)	CC-2423	Hot Rods (04-05) HR4062	(04-05) Pro-X 04922	83C072C	49-822238	
					95.01	.080		4680A	4865M09500	4067DA	VT22984A	Complete w/oil seals 37-2434												
Resleeving required for oversizes  Complete Cylinder Kit Includes Cylinder, Piston Kit, and Top End Gasket Kit.					95.02	.080		(06-13) 11.4:1 Comp.	(06-13) 11.4:1	(06-13) 11.4:1	(06-13) 11.4:1	12.5:1 Comp.	C3445-EST (97mm)		Cylinder Works Complete Kit 20001-K01 (Std. 95mm)	80-80215H	Exhaust 80-80230	4044-1E (Exhaust)		Hot Rods HR4073	Hot Rods HR8620			
		97.00	.120		4680B	4865M09600	4067DB	VT22984B	12:1 Comp.															
YFZ-450 Big Bore to 478cc 98mm	2004-13	AC	YA-5495	5495K	96.00	.040		(04-05) 13:1	(04-05) 12.6:1	(04-05) 13:1	(04-05) 13:1	(06-13)	C3068-EST (98mm)		Big Bore Cylinder Works Complete Kit 23001-K01 (478cc, 98mm)	Intake 2X Titanium 28-24233 Steel	Seals 80-80710			Hot Rods HR8641	(06-13) Pro-X 04909			
					97.00	.080		4680C	4906M09800	4067DC	VT23403A	13:1 Comp.												
					98.00	.120		(06-13) 14:1	(06-13) 12:1	(06-13) 12:1	(06-13) 12:1	13.5:1 Comp.				Exhaust 2X Titanium 28-24231 Steel	Cylinder Head Service Kit 80-82060 Includes Std. Valves, Guides Spring Kit, Seals, Gaskets			Hot Rods HR8641				
					98.00	.120										80-80217H								

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MODEL  
Engine Description  
Cylinder I.D. (mm/in.)



SLEEVE		REBUILD KIT <small>Sleeves • Piston Gasket • I.E. Bearing</small>		BORE SIZE (mm)		PISTON SIZE		TOP END							VALVE TRAIN				BOTTOM END			
PRO-X PISTON	LAPC PISTON	WISECO PISTON	WOSSNER PISTON	VERTEX PISTON	JE PISTON	COMETIC GASKET	L.A. SLEEVE GASKET	CYLINDER AFTERMARKET KITS	VALVE VALVE SPRING KIT	VALVE GUIDE	CAMSHAFT	CAM CHAIN	CRANKSHAFT	CON-ROD KIT	CRANK BEARING	ENGINE OIL SEAL KIT						

**YAMAHA FOUR-STROKE (CONTINUED)**

<b>Rhino 660</b> 2005-08 660cc Single Liquid Cooled 100mm 3.937"	RS	YA-7018		100.00	Std.	9.1:1 Comp.	9.9:1 Comp.	9.9:1 Comp.	9.1:1 Comp.	9.1:1 Comp.	10.75:1 Comp.	Top End C7044-EST (100mm)	Top End 35-0865		Intake 28-26612 Exhaust 28-26611	Valve Guide Intake 80-80040	Hot Cams Camshaft 4034-1 <b>Mudbuster</b>	CC-1331	Hot Rods HR4080	Pro-X 04939	6307C3	
				100.50	.020	4670	65.6820A	4966M10000	8507DA	VT23104	272144										Complete w/oil seals 37-1865	Valve Springs 80-80030
				101.00	.040	4672	65.6820.050	4966M10050	8507D050	VT23140050	272146											
				102.00	.080	4674	65.6820.100	4966M10100	8507D100	VT23104100	272148											
				102.00	.080			11:1 Comp. 4737M10000		11:1 Comp. VT23555A												
				101.50	.020			4737M10050														
				101.00	.040			4737M10100														
				102.00	.080			4811M10200														
<b>Rhino 660</b> 2005-08 <b>Big Bore to 727cc</b> 105mm 4.134" Case Modification Required	BB	YA-7018B		105.00	.196						12:1 Comp. 314758	Top End C7909-EST										
<b>Raptor 700R</b> 2006-22 <b>(Cylinder No. 1S3)</b> 686cc Liquid Cooled 102mm 4.016"  <i>Resleeving required for oversizes</i>  <i>Cylinder Works Complete Cylinder Kit Includes Cylinder, Piston Kit, and Top End Gaskets.</i>	AC	YA-5609	5609K (06-14)	102.00	Std.	(06-14) 9.1:1 Comp.	(06-14) 9.2:1 Comp.	(06-14) 9.2:1 Comp.	(06-14) 9.2:1 Comp.	(06-14) 10:1 Comp.	Top End C3142-EST (103mm)	Top End (06-14) 35-0923	Cylinder Works <b>20004</b> (Std. 102mm)	Intake 80-80430	Valve Guide IN / EX 80-80420	Hot Cams Camshaft <b>(09-21)</b> Stage 1 4131-1 Stage 2 4132-2 Stage 3 4133-3	CC-2706	Hot Rods HR4078	Pro-X 03.2706	6308YA3	49-822338	
			5609K-1 (15-22)	102.01	Std.	01.2706A	4902M10200	VT23623A	300175	0/S +1mm 80-80431										0/S +.001 80-80421	Hot Rods HR8651	Bearing / Seal Kit Used with Hot Rods <b>HR4078</b> <b>49K053</b>
				103.00	.040	01.2706B	4902M10300	VT23623B		Exhaust 80-80433											Wossner WR4031	Bearing / Seal Kit <b>49K054</b> Used when Rebuilding Crankshaft
				102.00	Std.	01.2707A	4903M10200	8673DA	300176	0/S +1mm 80-80434												
				103.00	.040	01.2707A	4903M10300	8673D100	300176	Valve Springs 80-80410										(06-08) Stage 1 4064-1 Stage 2 4065-2 Stage 3 4091-3	Hot Rods Bottom End Kit <b>CBK0114 (06-14)</b> <b>HR00112 (15-20)</b> <i>Includes Crankshaft, Bearings Seals, Complete Gasket Set</i>	
				102.00	Std.	(15-22) 10:1 Comp.	(15-22) 10:1 Comp.	(15-22) 10:1 Comp.	(15-22) 10:1 Comp.	(15-22) 10:1 Comp.												
				102.01	Std.	01.2714A	40119M10200	40119M10200	8980DA	VT23965A	324101											
				103.00	.040	01.2714B	40119M10300	40119M10300	8980DA	VT23965B	324104											
				102.00	Std.					11:1 Comp. VT23966A	324102											
				102.01	Std.					VT23966B	324105											
				103.00	.040																	
<b>Big Bore to 727cc</b> 727cc 105mm 735cc 105.5mm 741cc 106mm  <i>Cylinder Works Complete Cylinder Kit Includes Cylinder, Piston Kit, and Top End Gaskets.</i>	BB	YA-5609		105.00	.120				9.2:1 Comp. VT23626A	11:1 Comp. 284766 300181		C3144-EST (105.5mm)		Cylinder Works <b>Big Bore</b> Complete Kit <b>Raptor</b> 21004-K01 (727cc)								
<b>Grizzly 700</b> 2007-15 <b>Grizzly 700</b> 2019-22 <b>Kodiak 700</b> 2019-22 <b>Rhino 700</b> 2008-13 <b>Viking 700</b> 2014-22 <b>(Cylinder No. 3B4)</b> 686cc Liquid Cooled 102mm 4.016"  <i>Resleeving required for oversizes</i>  <i>Cylinder Works Complete Kit Includes Cylinder, Piston Kit and Top End Gaskets</i>	AC	YA-5609	5609K-3 (07-13)	102.00	Std.	(07-13) 9.1:1 Comp.	(07-13) 9.2:1 Comp.	(07-13) 9.2:1 Comp.	(07-13) 9.2:1 Comp.	(07-13) 10:1 Comp.	Top End C3142-EST (103mm)	Top End (07-13) 35-0923	Cylinder Works <b>20104</b> (Std. 102mm)	Intake 80-80430	Valve Guide IN / EX 80-80420	Hot Cams Camshaft <b>Grizzly (07-13)</b> 4126-M (Mudbuster) 4127-1 (Stage 1) 4128-2 (Stage 2)	CC-2706	Hot Rods HR4079	Pro-X 04907	6308YA3	49-822349	
			Grizzly Rhino	102.01	Std.	01.2706A	4902M10200	VT23623A	300175	0/S +1mm 80-80431										0/S +.001 80-80421	Hot Rods HR8651	Bearing / Seal Kit Used with Hot Rods <b>HR4079</b> <b>49K053</b>
				103.00	.040	01.2706B	4902M10300	VT23623B		Exhaust 80-80433												
				102.00	Std.	01.2707A	4903M10200	8673DA	300176	0/S +1mm 80-80434												
				103.00	.040	01.2707A	4903M10300	8673D100	300176	Valve Springs 80-80410										(14-22) Grizzly (07-13) Rhino (08-13) Viking (14-20) CBK0015 <i>Includes Crankshaft, Bearings Seals, Complete Gasket Set</i>	Hot Rods Bottom End Kit <b>Grizzly (07-13)</b> <b>Rhino (08-13)</b> <b>Viking (14-20)</b> <b>CBK0015</b> <i>Includes Crankshaft, Bearings Seals, Complete Gasket Set</i>	Bearing / Seal Kit <b>49K054</b> Used when Rebuilding Crankshaft
				104.00	.080	(14-15, 19-22) 10:1 Comp.	(14-15, 19-22) 10:1 Comp.	(14-15, 19-22) 10:1 Comp.	(14-15, 19-22) 10:1 Comp.	(14-15, 19-22) 10:1 Comp.												
				102.00	Std.	01.2714A	40119M10200	40119M10200	8980DA	VT23965A	324101											
				102.01	Std.	01.2714B	40119M10300	40119M10300	8980DA	VT23965B	324104											
				103.00	.040					11:1 Comp. VT23966A	324102											
				103.00	.040					VT23966B	324105											

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# All Purpose Sleeves

## ALL PURPOSE SLEEVES – NO FLANGE

Cylinder I.D. *	3/32" Wall		1/8" Wall		Overall Length	Cylinder I.D. *	3/32" Wall		1/8" Wall		Overall Length
	Part No.	O.D.	Part No.	O.D.			Part No.	O.D.	Part No.	O.D.	
1-3/8"	LA-106	1-9/16"	L-106	1-5/8"	4-1/2"	2-3/4"	LA-212	2-15/16"	L-212	3"	8-1/4"
1-7/16"	LA-107	1-5/8"	L-107	1-11/16"	4-1/2"	2-13/16"	LA-213	3"	L-213	3-1/16"	8-1/4"
1-1/2"	LA-108	1-11/16"	L-108	1-3/4"	4-1/2"	2-7/8"	LA-214	3-1/16"	L-214	3-1/8"	8-1/4"
1-9/16"	LA-109	1-3/4"	L-109	1-13/16"	4-1/2"	2-15/16"	LA-215	3-1/8"	L-215	3-3/16"	8-1/4"
1-5/8"	LA-110	1-13/16"	L-110	1-7/8"	6-1/2"	3"	LA-300	3-3/16"	L-300	3-1/4"	8-1/4"
1-11/16"	LA-111	1-7/8"	L-111	1-15/16"	6-1/2"	3-1/16"	LA-301	3-1/4"	L-301	3-5/16"	8-1/4"
1-3/4"	LA-112	1-15/16"	L-112	2"	6-1/2"	3-1/8"	LA-302	3-5/16"	L-302	3-3/8"	9-1/4"
1-13/16"	LA-113	2"	L-113	2-1/16"	6-1/2"	3-3/16"	LA-303	3-3/8"	L-303	3-7/16"	9-1/4"
1-7/8"	LA-114	2-1/16"	L-114	2-1/8"	6-1/2"	3-1/4"	LA-304	3-7/16"	L-304	3-1/2"	9-1/4"
1-15/16"	LA-115	2-1/8"	L-115	2-3/16"	6-1/2"	3-5/16"	LA-305	3-1/2"	L-305	3-9/16"	9-1/4"
2"	LA-200	2-3/16"	L-200	2-1/4"	6-1/4"	3-3/8"	LA-306	3-9/16"	L-306	3-5/8"	9-1/4"
2-1/16"	LA-201	2-1/4"	L-201	2-5/16"	6-1/4"	3-7/16"	LA-307	3-5/8"	L-307	3-11/16"	9-1/4"
2-1/8"	LA-202	2-5/16"	L-202	2-3/8"	6-1/4"	3-1/2"	LA-308	3-11/16"	L-308	3-3/4"	9-1/4"
2-3/16"	LA-203	2-3/8"	L-203	2-7/16"	6-1/4"	3-9/16"	LA-309	3-3/4"	L-309	3-13/16"	9-1/4"
2-1/4"	LA-204	2-7/16"	L-204	2-1/2"	6-1/4"	3-5/8"	LA-310	3-13/16"	L-310	3-7/8"	9-1/4"
2-5/16"	LA-205	2-1/2"	L-205	2-9/16"	6-1/4"	3-11/16"	LA-311	3-7/8"	L-311	3-15/16"	9-1/4"
2-3/8"	LA-206	2-9/16"	L-206	2-5/8"	6-1/4"	3-3/4"	LA-312	3-15/16"	L-312	4.00"	10-1/4"
2-7/16"	LA-207	2-5/8"	L-207	2-11/16"	6-1/4"	3-13/16"	LA-313	4.00"	L-313	4-1/16"	10-1/4"
2-1/2"	LA-208	2-11/16"	L-208	2-3/4"	6-1/4"	3-7/8"	LA-314	4-1/16"	L-314	4-1/8"	10-1/4"
2-9/16"	LA-209	2-3/4"	L-209	2-13/16"	6-1/4"	3-15/16"	LA-315	4-1/8"	L-315	4-3/16"	10-1/4"
2-5/8"	LA-210	2-13/16"	L-210	2-7/8"	6-1/4"	4.00"	LA-400	4-3/16"	L-400	4-1/4"	10-1/4"
2-11/16"	LA-211	2-7/8"	L-211	2-15/16"	8-1/4"	4-1/16"	LA-401	4-1/4"	L-401	4-5/16"	10-1/4"

\*Sleeve has bore stock to allow boring to cylinder I.D. listed

## ALL PURPOSE FLANGED SLEEVES

Cylinder I.D. *	O.D.	Flange O.D.	Flange Thickness	Overall Length	Part No.	
47mm	1.850"	2.100"	2.225"	.200"	5.250"	FL-47
48mm	1.890"	2.140"	2.265"	.200"	5.250"	FL-48
49mm	1.930"	2.180"	2.305"	.200"	5.250"	FL-49
50mm	1.968"	2.220"	2.345"	.200"	5.250"	FL-50
52mm	2.047"	2.297"	2.422"	.200"	5.250"	FL-52
54mm	2.125"	2.375"	2.500"	.200"	5.250"	FL-54
56mm	2.205"	2.455"	2.580"	.200"	5.250"	FL-56
58mm	2.283"	2.530"	2.655"	.200"	6"	FL-58
60mm	2.362"	2.625"	2.750"	.200"	6"	FL-60
62mm	2.441"	2.690"	2.815"	.200"	6"	FL-62
64mm	2.520"	2.770"	2.895"	.200"	6"	FL-64
65mm	2.559"	2.810"	2.935"	.200"	6"	FL-65
66mm	2.598"	2.850"	2.975"	.200"	6"	FL-66
67mm	2.637"	2.890"	3.015"	.200"	6"	FL-67
68mm	2.677"	2.930"	3.055"	.200"	6"	FL-68
70mm	2.755"	3.005"	3.130"	.200"	6"	FL-70
72mm	2.835"	3.085"	3.210"	.200"	6"	FL-72
73mm	2.874"	3.125"	3.250"	.200"	6"	FL-73
74mm	2.913"	3.165"	3.290"	.200"	6"	FL-74
75mm	2.952"	3.200"	3.325"	.200"	6.500"	FL-75
76mm	2.992"	3.250"	3.375"	.200"	6.500"	FL-76
78mm	3.070"	3.320"	3.445"	.200"	6.500"	FL-78
80mm	3.150"	3.400"	3.525"	.200"	6.500"	FL-80
82mm	3.228"	3.480"	3.605"	.200"	6.500"	FL-82
83mm	3.267"	3.520"	3.645"	.200"	6.500"	FL-83
84mm	3.307"	3.560"	3.685"	.200"	6.500"	FL-84
86mm	3.386"	3.635"	3.760"	.200"	6.500"	FL-86
88mm	3.464"	3.715"	3.840"	.200"	6.500"	FL-88
89mm	3.503"	3.755"	3.880"	.200"	6.500"	FL-89

\*Sleeve has bore stock to allow boring to cylinder I.D. listed

Special flanged sleeves without ports and blank sleeves made to customer's specifications also available. Allow 6 weeks for delivery.



Wiseco "Garage Buddy" Complete Engine Rebuild Kits save you time by eliminating the need to look up and compile a list of OEM parts. The kits feature a combination of Wiseco and OEM brands of engine parts in one box.

Includes everything needed to rebuild a complete engine (excludes the top end) in one convenient kit.

- Wiseco crankshaft assembly
- OEM quality main bearing and seal kit
- Wiseco piston kit
- Complete engine gaskets, seals and O-rings.
- Wiseco wrist pin bearing, when applicable
- Wiseco cam chain, when applicable
- Wiseco hour meter and bracket

## HONDA

MODEL	YEAR	PART NO.	DESCRIPTION
TRX-400 EX, X	1999-04	PWR131A-850	With Std. Piston
TRX-400 EX, X	1999-04	PWR131A-860	With +1.0mm Piston
TRX-400 EX, X	1999-04	PWR131A-870	With +2.0mm Piston
TRX-400 EX, X	1999-04	PWR131A-880	With +3.0mm Piston
TRX-400 EX, X	2005-14	PWR131B-850	With Std. Piston
TRX-400 EX, X	2005-14	PWR131B-860	With +1.0mm Piston
TRX-400 EX, X	2005-14	PWR131B-870	With +2.0mm Piston
TRX-400 EX, X	2005-14	PWR131B-880	With +3.0mm Piston
TRX-450 ER	2006-14	PWR226B-100	With Std. Piston

## POLARIS

MODEL	YEAR	PART NO.	DESCRIPTION
RZR 800	2008-10	PWR223-800A	With Std. Pistons
RZR 800	2008-10	PWR223-820A	With +2.0mm Pistons
RZR 800	2011-14	PWR223-800B	With Std. Pistons
RZR 800	2011-14	PWR223-820B	With +2.0mm Pistons
Ranger 800 4x4, 6x6	2010	PWR223-800A	With Std. Pistons
Ranger 800 4x4, 6x6	2010	PWR223-820A	With +2.0mm Pistons
Ranger 800 4x4 Crew, XP	2011-14	PWR223-800B	With Std. Pistons
Ranger 800 4x4 Crew, XP	2011-14	PWR223-820B	With +2.0mm Pistons
Ranger 800 6x6	2011-17	PWR223-800B	With Std. Pistons
Ranger 800 6x6	2011-17	PWR223-820B	With +2.0mm Pistons
Sportsman 800 4x4	2005-10	PWR223-800A	With Std. Pistons
Sportsman 800 4x4	2005-10	PWR223-820A	With +2.0mm Pistons
Sportsman 800 4x4, 6x6	2011-14	PWR223-800B	With Std. Pistons
Sportsman 800 4x4, 6x6	2011-14	PWR223-820B	With +2.0mm Pistons

## YAMAHA

MODEL	YEAR	PART NO.	DESCRIPTION
YFS-200 Blaster	1988-06	PWR105-660	With Std. Piston
YFS-200 Blaster	1988-06	PWR105-665	With +.50mm Piston
YFS-200 Blaster	1988-06	PWR105-670	With +1.0mm Piston
YFS-200 Blaster	1988-06	PWR105-675	With +1.50mm Piston
YFS-200 Blaster	1988-06	PWR105-680	With +2.0mm Piston
YFZ-350 Banshee	1987-06	PWR100-640	With Std. Pistons
YFZ-350 Banshee	1987-06	PWR100-645	With +.50mm Pistons
YFZ-350 Banshee	1987-06	PWR100-650	With +1.0mm Pistons
YFZ-350 Banshee	1987-06	PWR100-655	With +1.50mm Pistons
YFZ-350 Banshee	1987-06	PWR100-660	With +2.0mm Pistons
YFM-350 Warrior	1987-04	PWR137-830	With Std. Piston
YFM-350 Warrior	1987-04	PWR137-835	With +.50mm Piston
YFM-350 Warrior	1987-04	PWR137-840	With +1.0mm Piston
YFM-350 Raptor	2004-13	PWR137-830	With Std. Piston
YFM-350 Raptor	2004-13	PWR137-835	With +.50mm Piston
YFM-350 Raptor	2004-13	PWR137-840	With +1.0mm Piston
YFZ-450	2004-05	PWR230-100	With Std. Piston
YFZ-450	2006-09	PWR231-100	With Std. Piston
YFZ-450	2012-13	PWR231-100	With Std. Piston
YFZ-450R	2009-13	PWR218-100	With Std. Piston
YFM-660 Grizzly 4x4	2002-08	PWR148-100	With Std. Piston
YFM-660 Grizzly 4x4	2002-08	PWR148-101	With +.50mm Piston
YFM-660 Grizzly 4x4	2002-08	PWR148-102	With +1.0mm Piston
YFM-660R Raptor	2001-05	PWR133-100	With Std. Piston
YFM-660R Raptor	2001-05	PWR133-101	With +.50mm Piston
YFM-660R Raptor	2001-05	PWR133-102	With +1.0mm Piston
YXR-660F Rhino	2004-07	PWR148-100	With Std. Piston
YXR-660F Rhino	2004-07	PWR148-101	With +.50mm Piston
YXR-660F Rhino	2004-07	PWR148-102	With +1.0mm Piston



VERTEX (formerly known as Wrench Rabbit) Complete Engine Rebuild Kits save you time by eliminating the need to look up and compile a list of OEM parts. Saves you the worry of missing components. The kits feature a combination of leading brands of engine parts in one box ( Hot Rods, Vertex, Hot Cams).



Includes everything needed to rebuild a complete engine (excludes the top end) in one convenient kit.

- Hot Rods heavy duty crankshaft
- Hot Rods counter balancer bearing kit, when applicable
- Hot Rods main bearing and seal kit
- Hot Rods transmission bearing kit
- Hot Rods water pump rebuild kit
- Vertex piston kit
- Vertex complete gasket and oil seal kit (does not include mechanical seals)
- Hot Rods wrist pin bearing, when applicable
- Hot Cams cam chain, when applicable

## HONDA

MODEL	YEAR	PART NO.	DESCRIPTION
TRX-250 EX	2003-08	WR00011	With Std. Piston
TRX-250 TE RECON	2002-19	WR00011	With Std. Piston
TRX-250 TM RECON	2002-19	WR00011	With Std. Piston
TRX-250 X	2009-19	WR00011	With Std. Piston
TRX-350 FE, FM	2000-06	WR00007	With Std. Piston
TRX-350 TE, TM	2000-06	WR00007	With Std. Piston
TRX-400 EX, X	2005-14	WR101-196	With Std. Piston
TRX-400 EX, X	2005-14	WR101-197	With +1.0mm Piston
TRX-400 EX, X	2005-14	WR101-198	With +2.0mm Piston
TRX-400 EX, X	2005-14	WR101-199	With +3.0mm Piston
TRX-420 FE/FM/FPE/TE	2012-13	WR00012	With Std. Piston
TRX-420 FPM/TM	2012-13	WR00038	With Std. Piston
TRX-450 ER	2006-14	WR101-032	With Std. Piston
TRX-450R	2004-05	WR101-031	With Std. Piston
TRX-450R	2006-09	WR101-032	With Std. Piston
TRX-500 FE	2005-11	WR00036	With Std. Piston
TRX-500 FE	2012-13	WR00039	With Std. Piston
TRX-500 FM	2005-11	WR00037	With Std. Piston
TRX-500 FM, FPM	2012-13	WR00059	With Std. Piston
TRX-500 TM	2005-06	WR00037	With Std. Piston

## KAWASAKI

MODEL	YEAR	PART NO.	DESCRIPTION
KFX-400	2005-06	WR101-061	With Std. Piston
KFX-450R	2008-14	WR101-138	With Std. Piston
KFX-700 V-Force	2004-09	WR00029	With Std. Pistons
KVF-700 Prairie	2004-06	WR00029	With Std. Pistons
KVF-750 Brute Force	2005-11	WR101-164	With Std. Pistons
KVF-750 Brute Force	2012-14	WR101-165	With Std. Pistons
KVF-750 Brute Force	2015-20	WR101-176	With Std. Pistons
KRF-750 Teryx 4x4	2008-11	WR101-164	With Std. Pistons

## POLARIS

MODEL	YEAR	PART NO.	DESCRIPTION
ATP 500 4x4	2004-05	WR00063	With Std. Piston
ATP 500 4x4	2004-05	WR00064	With +.50mm Piston
ATP 500 4x4	2004-05	WR00065	With +1.0mm Piston
Ranger 500 4x4	2006	WR00066	With Std. Piston
Scrambler 500 2x4	2007-09	WR00063	With Std. Piston
Scrambler 500 2x4	2007-09	WR00064	With +.50mm Piston
Scrambler 500 2x4	2007-09	WR00065	With +1.0mm Piston
Scrambler 500 4x4	2003-12	WR00063	With Std. Piston
Scrambler 500 4x4	2003-12	WR00064	With +.50mm Piston
Scrambler 500 4x4	2003-12	WR00065	With +1.0mm Piston
Sportsman 500 HO 4x4	2003-13	WR00066	With Std. Piston
Sportsman 500 HO 4x4	2003-13	WR00067	With +.50mm Piston
Sportsman 500 HO 4x4	2003-13	WR00068	With +1.0mm Piston
Sportsman 500 X2	2006-09	WR00066	With Std. Piston
Sportsman 500 X2	2006-09	WR00067	With +.50mm Piston
Sportsman 500 X2	2006-09	WR00068	With +1.0mm Piston
Sportsman Touring 500	2008-09	WR00066	With Std. Piston
Sportsman Touring 500	2008-09	WR00067	With +.50mm Piston
Sportsman Touring 500	2008-09	WR00068	With +1.0mm Piston
Sportsman Forest 500 4x4	2011-14	WR00066	With Std. Piston
Sportsman Forest 500 4x4	2011-14	WR00067	With +.50mm Piston
Soprtsman Forest 500 4x4	2011-14	WR00068	With +1.0mm Piston
Ranger 700 4x4 ,XP, Crew	2005-09	WR00028	With Std. Pistons
Ranger 700 6x6	2006-09	WR00028	With Std. Pistons
Sportsman 700 4x4, X2	2005-08	WR00028	With Std. Pistons
Ranger 800 4x4	2008-10	WR101-057	With Std. Pistons
Ranger 800 6x6	2010	WR101-057	With Std. Pistons
Ranger 800 4x4 Crew, XP	2011-14	WR101-185	With Std. Pistons
Ranger 800 6x6	2011-17	WR101-185	With Std. Pistons
RZR 800	2008-10	WR101-057	With Std. Pistons

Continued next page

## POLARIS (Continued)

MODEL	YEAR	PART NO.	DESCRIPTION
RZR 800	2011-14	WR101-185	With Std. Pistons
RZR S 800	2009	WR101-057	With Std. Pistons
RZR 4 800	2010	WR101-057	With Std. Pistons
RZR 4 800	2011-14	WR101-185	With Std. Pistons
Sportsman 800 4x4	2005-10	WR101-057	With Std. Pistons
Sportsman 800 X2	2007-09	WR101-057	With Std. Pistons
Sportsman Touring 800	2008-09	WR101-057	With Std. Pistons
Sportsman 800 6x6	2008-10	WR101-057	With Std. Pistons
Sportsman 800 4x4, 6x6	2011-14	WR00060	With Std. Pistons
Scrambler 850 HO XP EPS	2013	WR00046	With Std. Pistons
Scrambler 850	2014-18	WR00048	With Std. Pistons
Sportsman 850 High Lifter	2016-19	WR00048	With Std. Pistons
Sportsman 850 SP	2015-18	WR00048	With Std. Pistons
Sportsman 850 Touring SP	2015-18	WR00048	With Std. Pistons
Sportsman 850 Touring EPS	2014	WR00048	With Std. Pistons
Sportsman XP EPS HO	2014-15	WR00048	With Std. Pistons
ACE 900	2016	WR00040	With Std. Pistons
ACE 900 EPS XC	2017	WR00009	With Std. Pistons
ACE 900 EPS XC	2018-19	WR00043	With Std. Pistons
Ranger 900 XP	2013-14	WR00042	With Std. Pistons
Ranger 900 4x4 Crew	2014-15	WR00042	With Std. Pistons
Ranger 900 4x4 Crew	2016	WR00040	With Std. Pistons
Ranger 900 4x4 Crew	2017	WR00009	With Std. Pistons
Ranger 900 4x4 Crew	2018-19	WR00043	With Std. Pistons
Ranger 900 XP	2016	WR00040	With Std. Pistons
Ranger 900 XP	2017	WR00009	With Std. Pistons
Ranger 900 XP	2018-19	WR00043	With Std. Pistons
RZR 900 XP	2011-12	WR00044	With Std. Pistons
RZR 4 900 XP	2012	WR00044	With Std. Pistons
RZR 900 50, 55, 60 Inch	2015	WR00042	With Std. Pistons
RZR 900 50, 55, 60 Inch	2016	WR00040	With Std. Pistons
RZR 900 50, 55, 60 Inch	2017	WR00009	With Std. Pistons
General 1000 EPS	2016-17	WR00054	With Std. Pistons
General 1000 EPS	2018-20	WR00053	With Std. Pistons
Ranger 1000 EPS, XP	2019	WR00055	With Std. Pistons
RZR 1000	2016-17	WR00054	With Std. Pistons
RZR 1000	2018-20	WR00053	With Std. Pistons
RZR 1000 RS1	2018-20	WR00053	With Std. Pistons
RZR S4 1000	2019	WR00053	With Std. Pistons
RZR XP 4 1000	2019-20	WR00053	With Std. Pistons

## SUZUKI

MODEL	YEAR	PART NO.	DESCRIPTION
LT-Z400	2009-14	WR101-062	With Std. Piston

## YAMAHA

MODEL	YEAR	PART NO.	DESCRIPTION
YFS-200 Blaster	1988-06	WR101-155	With Std. Piston
YFS-200 Blaster	1988-06	WR101-200	With +.50mm Piston
YFS-200 Blaster	1988-06	WR101-201	With +1.0mm Piston
YFS-200 Blaster	1988-06	WR101-202	With +1.50mm Piston
YFS-200 Blaster	1988-06	WR101-203	With +2.0mm Piston
YFZ-350 Banshee	1987-06	WR101-077	With Std. Pistons
YFZ-350 Banshee	1987-06	WR101-204	With +.50mm Pistons
YFZ-350 Banshee	1987-06	WR101-205	With +1.0mm Pistons
YFZ-350 Banshee	1987-06	WR101-206	With +1.50mm Pistons
YFZ-350 Banshee	1987-06	WR101-207	With +2.0mm Pistons
YFM-350 Warrior	1987-04	WR101-208	With Std. Piston
YFM-350 Warrior	1987-04	WR101-209	With +.50mm Piston
YFM-350 Warrior	1987-04	WR101-210	With +1.0mm Piston
YFM-350 Raptor	2004-13	WR101-208	With Std. Piston
YFM-350 Raptor	2004-13	WR101-209	With +.50mm Piston
YFM-350 Raptor	2004-13	WR101-210	With +1.0mm Piston
YFZ-450	2004-05	WR101-078	With Std. Piston
YFZ-450	2006-09	WR101-079	With Std. Piston
YFZ-450	2012-13	WR101-079	With Std. Piston
YFZ-450R	2009-13	WR101-147	With Std. Piston
YFZ-450 X	2010-11	WR101-147	With Std. Piston
YFZ-450R	2014-20	WR00062	With Std. Piston
YFM-660 Grizzly 4x4	2002-08	WR101-137	With Std. Piston
YFM-660 Grizzly 4x4	2002-08	WR101-211	With +.50mm Piston
YFM-660 Grizzly 4x4	2002-08	WR101-212	With +1.0mm Piston
YFM-660R Raptor	2001-05	WR101-182	With Std. Piston
YFM-660R Raptor	2001-05	WR101-213	With +.50mm Piston
YFM-660R Raptor	2001-05	WR101-214	With +1.0mm Piston
YXR-660F Rhino	2004-07	WR101-137	With Std. Piston
YXR-660F Rhino	2004-07	WR101-211	With +.50mm Piston
YXR-660F Rhino	2004-07	WR101-212	With +1.0mm Piston
YFM-700 Grizzly 4x4	2007-13	WR101-136	With Std. Piston
YFM-700R Raptor	2006-14	WR101-135	With Std. Piston
YFM-700R Raptor	2015-20	WR00061	With Std. Piston
YXR-700 F Rhino	2008-13	WR101-136	With Std. Piston



# CYLINDER HEAD SERVICE KITS

**KPMI Cylinder Head Service Kits** contain all items to completely refresh and upgrade cylinder heads for popular ATV's and SXS's with KPMI's top quality valve train components. Kit includes standard intake, exhaust valves, valve guides and seals, spring kit and top end gaskets.



KTM		
MODEL	YEAR	PART NUMBER
450 XC	2008-09	96-96560
525 XC	2008-09	96-96570



CAN AM		
MODEL	YEAR	PART NUMBER
<b>CAN AM 850, 1000 TWINS</b> 2013-20 OEM spec'd with Standard intake, exh valve	2013-20	90-91400
<b>850 OUTLANDER</b>	2016-20	
<b>850 RENEGADE</b>	2016-20	
<b>1000 MAVERICK</b>	2013-20	
<b>1000 OUTLANDER</b>	2013-20	
<b>1000 RENEGADE</b>	2013-20	



POLARIS		
MODEL	YEAR	PART NUMBER
<b>PREDATOR / OUTLAW 500</b>	2003-07	82-83200



HONDA		
MODEL	YEAR	PART NUMBER
<b>TRX-400X / EX</b>	1999-14	30-33460
<b>TRX-450R</b>	2004-05	30-33480
<b>TRX-450R / ER</b>	2006-14	30-33360



<b>RZR XP 900</b>	2011-12	82-83230
<b>RZR XP 900</b>	2013-14	82-83210
<b>RZR 900</b>	2015-16	
<b>RANGER 900 XP</b>	2013-19	82-83240
<b>RZR XP1000</b>	2014	82-83220
<b>RZR 1000 S/XP/TRAIL</b>	2015-22	82-83150
<b>RZR RSI</b>	2018-22	
<b>GENERAL 1000</b>	2016-22	
<b>RZR 1000 TURBO</b>	2016-22	82-83160





# CYLINDER HEAD SERVICE KITS

## SUZUKI

MODEL	YEAR	PART NUMBER
LT-Z400 QUADSPORT	2003-18	60-61790



MODEL	YEAR	PART NUMBER
LTR-450 / 450Z	2006-09	60-61780



## YAMAHA

MODEL	YEAR	PART NUMBER
YFZ-450R	2009-20	80-82060



MODEL	YEAR	PART NUMBER
YFM-700		80-82080
GRIZZLY 700	2007-15	
GRIZZLY 700	2019-22	
KODIAK 700	2019-22	
RAPTOR 700	2006-21	
RHINO 700	2008-13	
VIKING 700	2014-22	



MODEL	YEAR	PART NUMBER
YFM-600		80-82390
GRIZZLY 660	2002-08	
RAPTOR 660	2001-05	
RHINO 660	2004-07	



MODEL	YEAR	PART NUMBER
YXR-1000R	2016-21	80-82090





# CARBURETOR REPAIR KITS

Shindy Carb Repair Kits are made in Japan using only the finest materials. Each kit rebuilds OEM carburetors. Included are main and pilot jets, jet needle sets, float valves, float chamber gaskets and O-rings. Idle screw sets, pilot screw sets and air screw sets also included if applicable.



## HONDA

MODEL	YEAR	PART #	MODEL	YEAR	PART #	MODEL	YEAR	PART #	MODEL	YEAR	PART #
TRX90 FourTrax	93-98	03-041	TRX200SX FourTrax	87-88	03-010	TRX300 FourTrax	88-90	03-021	TRX400FW Foreman	95-03	03-037
TRX90 FourTrax	99-00	03-047	ATC250ES Big Red	85	03-015	TRX300 FourTrax	91-92	03-029	TRX400X	12-14	03-054
TRX90 SporTrax	01-05	03-047	ATC250ES Big Red	86-87	03-028	TRX300 FourTrax	93-00	03-031	TRX450ER	06-09	03-050
TRX90 SporTrax	06	03-056	ATC250R	81-82	03-012	TRX300EX	06-08	03-038	TRX450ER	12-14	03-050
TRX90EX	07-08	03-056	ATC250R	83-84	03-013	TRX300EX FourTrax	93-00	03-038	TRX450ES	98-01	03-040
TRX90X	09	03-056	ATC250R	85	03-014	TRX300EX SporTrax	01-05	03-038	TRX450FE Foreman ES	02-04	03-040
TRX90X	12	03-056	ATC250SX	85	03-015	TRX300FW	88-90	03-021	TRX450FM Foreman S	02-04	03-040
TRX90X	13-20	03-058	ATC250SX	86-87	03-028	TRX300FW 4x4	91-92	03-029	TRX450R	04-05	03-049
ATC110	78-93	03-003	TRX250 Fourtrax	85	03-016	TRX300FW 4x4	93-00	03-031	TRX450R	06-09	03-050
ATC110	84-85	03-024	TRX250 Fourtrax	86-87	03-017	TRX350 FourTrax	86-87	03-023	TRX450S	98-01	03-040
ATC185	80	03-006	TRX250 Recon	97-01	03-042	TRX350 Foreman	88	03-023	TRX500FA Rubicon	01-04	03-043
ATC185S	81-82	03-006	TRX250TE/TM Recon	02	03-042	TRX350D Foreman	87	03-023	TRX500FA Rubicon	05-09	03-055
ATC185S	83	03-026	TRX250EX SporTrax	01-05	03-042	TRX350FE Rancher ES	00-03	03-039	TRX500FA Rubicon	11-12	03-055
ATC200	81-82	03-006	TRX250EX SporTrax	06-08	03-052	TRX350FE Rancher ES	04-06	03-053	TRX500FE Foreman ES	05-11	03-048
ATC200	83	03-026	TRX250TE Recon ES	02-05	03-042	TRX350FM Rancher	00-03	03-039	TRX500FGA Rubicon	04	03-043
ATC200E	82-83	03-027	TRX250TE Recon ES	06-11	03-051	TRX350FM Rancher ES	04-06	03-053	TRX500FGA Rubicon	05-08	03-055
ATC200ES Big Red	84	03-027	TRX250TE/TM	12-13	03-051	TRX350TE Rancher ES	00-03	03-039	TRX500FM Foreman	05-11	03-048
ATC200M	84-85	03-027	TRX250TE/TM	16-21	03-060	TRX350TE Rancher ES	04-06	03-053	TRX500FPA Rubicon	09-12	03-055
ATC200S	84-86	03-007	TRX250TM Recon	02-05	03-042	TRX350TM Rancher	00-03	03-039	TRX500FPE Foreman	07-11	03-048
ATC200X	83-85	03-008	TRX250TM Recon	06-11	03-051	TRX350TM Rancher	04-06	03-053	TRX500FPM Foreman	07-11	03-048
ATC200X	86-87	03-009	TRX250R Fourtrax	86-87	03-018	TRX400EX FourTrax	99-00	03-044	TRX500TM	05-06	03-048
TRX200	84	03-036	TRX250R Fourtrax	88	03-019	TRX400EX SporTrax	01-04	03-044	TRX650FA Rincon	03-05	03-046
TRX200	91	03-032	TRX250X Fourtrax	87-92	03-020	TRX400EX SporTrax	05	03-054	TRX650FGA Rincon	04-05	03-046
TRX200D	92-93	03-033	TRX250X Recon	99	03-042	TRX400EX	06-08	03-054			
TRX200D	94-96	03-034	TRX250X	09-12	03-052	TRX400FA Rancher	04-07	03-045			
TRX200SX FourTrax	86	03-057	TRX250X	16-21	03-059	TRX400FGA Rancher	04-07	03-045			

## KAWASAKI

MODEL	YEAR	PART #	MODEL	YEAR	PART #	MODEL	YEAR	PART #	MODEL	YEAR	PART #
KSF50 KFX	03-06	03-222	KEF300 Lakota	95-03	03-118	KAF400 Mule 600	07-16	03-122	KAF620C Mule 2500	97-00	03-123
KSF50 KFX	07-21	03-124	KLF300 Bayou	86-88	03-103	KAF400 Mule 610 4x4	07-16	03-122	KVF650 Prairie	02	03-113*
KSF80 KFX	03-06	03-114	KLF300 Bayou	89-04	03-104	KAF400 Mule SX	17-19	03-122	KVF650 Prairie 4x4	03	03-113*
KSF90 KFX	07-09	03-117	KLF300 Bayou 4x4	89-04	03-105	KLF400 Bayou	93-95	03-107	KVF650 Brute Force	05	03-113*
KSF90 KFX	10-21	03-125	KVF300 Brute Force	12-18	03-121	KLF400 Bayou 4x4	96-99	03-108	KVF650 Brute Force 4x4	06-13	03-113*
KLF220 Bayou	88-02	03-101	KVF300 Brute Force	20	03-121	KSF400 KFX400	03-06	03-221	KSV700 KFX	04-09	03-116*
KLF250 Bayou	03-06	03-111	KVF300 Prairie	99-02	03-109	KVF400 Prairie	99-02	03-110	KVF700 Prairie 4x4	04-06	03-113*
KLF250 Bayou	07-11	03-120	KVF360 Prairie	03-09	03-112	KAF620A Mule 2510	97-00	03-123	KVF750 Brute Force	05-07	03-119*
KSF250 KFX Mojave	87-04	03-106	KVF360 Prairie	10-13	03-112	KAF620B Mule 2520	97-00	03-123			

\* Parts included for two carburetors.



# CARBURETOR REPAIR KITS

## POLARIS

MODEL	YEAR	PART #
Outlaw 50	08-13	03-419
Predator 50	05-06	03-418
Predator 50	07	03-419
Outlaw 90	07-08	03-422
Outlaw 90	09-14	03-420
Predator 90	03	03-433
Predator 90	04-06	03-421
Scrambler 90	02	03-433
Sportsman 90	02-03	03-433
Sportsman 90	04-06	03-421
Sportsman 90	08	03-422
Sportsman 90	09-14	03-420
Ranger RZR170	09-14	03-431
Phoenix 200	05-14	03-411
Trail Blazer 250	90-95	03-401
Trail Blazer 250	96-00	03-405
Trail Blazer 250	03-06	03-405
Trail Boss 250	89-99	03-401

MODEL	YEAR	PART #
Trail Boss 250 2x4	89-93	03-401
Trail Boss 250 4x4	89-93	03-401
Hawkeye 300 2x4	06-09	03-427
Hawkeye 300 4x4	06-07	03-427
Sportsman 300	08-10	03-427
Magnum 325 2x4	00-02	03-423
Magnum 325 4x4	00-02	03-423
Magnum 330 2x4	00-01	03-423
Magnum 330 2x4	03-05	03-409
Magnum 330 4x4	03-06	03-409
Trail Blazer 330	08-13	03-409
Trail Boss 330	03-13	03-409
Ranger 400	10-14	03-426
Sportsman 400	01-02	03-412
Sportsman 400	03-05	03-413
Sportsman 400	10-14	03-414
Sportsman 400 HO	08-09	03-414
Sportsman 450	06-07	03-414

MODEL	YEAR	PART #
Outlaw 500	06-07	03-415
Predator 500	03-07	03-415
Ranger 500 2x4	04-09	03-425
Ranger 500 4x4	04-07	03-425
Scrambler 500 2x4	01-02	03-408
Scrambler 500 4x4	98-02	03-408
Scrambler 500 4x4	03-09	03-410
Scrambler 500 4x4	10-12	03-432
Scrambler 500 HO	01-13	03-410
Sportsman 500	99-00	03-416
Sportsman 500	01-02	03-408
Sportsman 500	03-05	03-410
Sportsman 500	10-13	03-410
Outlaw 525	07-11	03-429
Sportsman 600	03-04	03-430
Sportsman 700	02-06	03-417

## SUZUKI

MODEL	YEAR	PART #
LT-Z50 QuadSport	06-09	03-223
LT-Z50 QuadSport	17-19	03-223
LT80 QuadSport	87-06	03-210
LT-Z90 QuadSport	07-09	03-225
LT-Z90 QuadSport	14-19	03-225
LT160 QuadRunner	03-04	03-208
LT160E Quad Runner	89-92	03-208
LT-F160 QuadRunner	91-01	03-208
LT250R QuadRacer	85-86	03-203
LT250R QuadRacer	88-92	03-218
LT4WD 250	87-89	03-206
LT-4WD QuadRunner	90-96	03-207

MODEL	YEAR	PART #
LT-F250 QuadRunner	88-89	03-206
LT-F250 QuadRunner	90-96	03-207
LT-F250 QuadRunner	97-99	03-211
LT-F250 QuadRunner	00-01	03-214
LT-F250 Ozark	03-09	03-215
LT-F250 Ozark	12-14	03-215
LT-F250F QuadRunner	99	03-211
LT-F250F QuadRunner	00-02	03-214
LT-F4WD	97-98	03-207
LT-Z250 QuadSport	04-09	03-219
LT-F4WDX KingQuad	91-98	03-209
LT-F300F KindQuad	99	03-209

MODEL	YEAR	PART #
LT-F300F KingQuad	00-02	03-220
LT-A400 Eiger 2x4	02-07	03-213
LT-A400F Eiger 4x4	02-07	03-213
LT-A400F KingQuad	08-10	03-224
LT-F400F Eiger 4x4	02-07	03-213
LT-F400F KingQuad	08-10	03-224
LT-Z400/Z QuadSport	03-08	03-221
LT-A500F Vinson	02-07	03-216
LT-F500F QuadRunner	98-99	03-212
LT-F500F QuadRunner	00-02	03-212
LT-F500F Vinson	03-07	03-216

## YAMAHA

MODEL	YEAR	PART #
YFM50 Raptor	04	03-323
YFM50R Raptor	05-08	03-323
YFM80 Badger	92-01	03-309
YFM80R Raptor	02-08	03-309
YFM90R Raptor	09-13	03-334
YFM90R Raptor	16-21	03-337
YFA-1 Breeze	89-04	03-319
YFM125 Grizzly	04-06	03-319
YFM125G Grizzly	07-13	03-329
YFM125R Raptor	11-13	03-335
YFS200 Blaster	88-06	03-301
YFB250 Timberwolf	92-98	03-306
YFB250FW Timberwolf	99-00	03-306
YFB250U Timberwolf	96-98	03-306
YFM250 Beartracker	99-02	03-316
YFM250B Big Bear	07-09	03-324

MODEL	YEAR	PART #
YFM250B Bruin	05-06	03-324
YFM250R Raptor	08-13	03-325
YFM250X Beartracker	03-04	03-316
YFM350 Bruin 2WD/4WD	04-06	03-321
YFM350 Grizzly 2WD/4WD	07-14	03-321
YFM350ER Moto-4	89-93	03-304
YFM350F Big Bear 4WD	97-99	03-330
YFM350FX Wolverine	96-05	03-326
YFM350R Raptor	04-08	03-322
YFM350R Raptor	09-13	03-322
YFM350U Big Bear 2WD	96-99	03-304
YFM350X Warrior	88-04	03-307
YFM350X Wolverine	06-09	03-331
YFZ350 Banshee	88-06	03-308
YFM400A Kodiak 2WD	00-04	03-313
YFM400F Big Bear	00-12	03-312

MODEL	YEAR	PART #
YFM400F Kodiak	96-98	03-311
YFM400FW Kodiak	93-95	03-304
YFM400M Big Bear	00-04	03-312
YFM450/EPS Grizzly	13-14	03-332
YFM450FA Kodiak	03-06	03-317
YFM450FG Grizzly	07-12	03-332
YFM450FX Wolverine	07-10	03-332
YFZ450	04-09	03-320
YFZ450	12-13	03-336
YXR450F Rhino	06-09	03-327
YFM600 Grizzly	98-00	03-314
YFM600F Grizzly	01	03-314
YFM660 Grizzly	02-05	03-318
YFM660F Grizzly	06-08	03-333
YFM660R Raptor	01-05	03-315*
YXR660F Rhino	04-07	03-328

\* Parts included for two carburetors.

ARCTIC CAT  
CAN-AM  
HONDA  
KAWASAKI  
KTM  
KYMCO  
POLARIS  
SUZUKI  
YAMAHA  
KITS  
UNIBAT  
AP BRAKES

**Unibat Batteries**, since 1994 has been providing Europe with high quality and performance batteries to the Powersports market. Unibat is a leader in AGM battery technology with quality, performance and affordability. Since 2005, Unibat continues to be an OEM supplier to top brands including Ducati, Beta Motorcycles, Benelli, Husqvarna and Fantic. Unibat is a team sponsor to Gresini Racing Ducati in MotoGP. Through these relationships, Unibat continues to develop batteries that can perform at the highest level. Unibat continues to push development with our ultra-powerful and ultra-light Lithium-Ion batteries as well as Factory Activated AGM batteries. Switching to Unibat gives the confidence and comfort of knowing your battery will not let you down. Unibat Batteries, now available to you in the USA.



**THE MF SERIES MAINTENANCE FREE AGM BATTERY** is constructed with a lead calcium alloy and Absorbed Glass Mat technology. Free of maintenance, no spills or leaks. The highest AH capacity and the best endurance of charging performance are high marks of Unibat. Fiberglass mat separators and high cell concentration extend battery life and eliminate worries caused by vehicle vibration.



### READY TO USE CX SERIES

This maintenance free High Performance AGM battery is 100% sealed and completely leak proof. 30% more powerful than traditional AGM batteries. Constructed with a lead calcium alloy and Absorbed Glass Mat technology. Free of maintenance, no spills or leaks. The highest AH capacity and the best endurance of charging performance are high marks of Unibat. Tightly packed construction and calcium reinforced grid plates prevent plate separation and high cell concentration extend battery life and eliminate worries caused by vehicle vibration. There's no need to add electrolyte water since the cells are already charged and ready to use.



### LITHIUM EXTRA

The innovative range of Unibat lithium-ion batteries for motorcycles and powersports has been engineered for the most demanding users always looking for higher and safer performance, faster acceleration, extreme weight reduction (about 3X lighter than traditional) and much longer battery life. The strong starting currents generated by the battery power allow safe, repeated and consecutive starts, even at low temperatures. Ready to go, its' very long life is estimated to be over 5 years and over 2000 complete charge/discharge cycles ensures operation even after long periods of inactivity.



# UNIBAT BATTERIES ATV & UTV

CC	MODEL	YEAR	MF SERIES	CX SERIES	LITHIUM EXTRA
<b>AEON (Benzai)</b>					
50/90/100	Cobra CX SPORT 50/90/100	ALL YEARS	CBTX4L-BS		ULT1
<b>ARCTIC CAT</b>					
50	DVX50	2006-10	CBTX5L-BS/CTZ7S-BS		ULT1
90	ALL MODELS 90	2002-05	CBTX5L-BS/C74-7TZS-BS		ULT1
90	DVX90	2006-19	CBTX5L-BS/CTZ7S-BS		ULT1
150	150 UTILITY/ALTEERRA	2010-19	CBTX9-BS	CX9	ULT2
250	250 UTILITY	2006-10	CBTX12-BS	CX12	ULT2
250	DVX250	2006-10	CBTX12-BS	CX12	ULT2
300	300 UTILITY	2010-16	CBTX12-BS	CX12	ULT2
300	DVX300	2009-15	CBTX12-BS	CX12	ULT2
300	ALTEERRA 300	2017-20	CBTX12-BS	CX12	ULT2
366	366 4x4	ALL YEARS	CBTX14AH-BS	CX14AH	ULT3
400	DVX400	ALL YEARS	CBTX9-BS	CX9	ULT2
450	XC450/TRV/CORE	2011-17	CBTX14AH-BS	CX14AH	ULT3
500	500 ALL ATV MODELS	ALL YEARS	CBTX20-BS	CX20L	ULT4
500	500 ALTEERRA	2016-18	CBTX20(L)-BS	CX20L	ULT4
500	500HDX PROWLER	2017-22	CIX30L-BS	CX30L	ULT5
500	500 PROWLER	2017-22	CBTX20L-BS	CX20L	ULT4
550	ALTEERRA/TRV550	2009-17	CBTX20-BS	CX20	ULT4
550	550 PROWLER	2009-15	CBTX24HL-BS	CX24HL	ULT4
570	570 ALTEERRA	2019-20	CBTX20-BS	CX20L	ULT4
650	650 H1/TBX	2005-12	CBTX14AH-BS	CX14AH	ULT3
650	650 PROWLER	2006-09	CBTX24HL-BS	CX24HL	ULT4
700	700 ALTEERRA	2017-21	CBTX20-BS	CX20L	ULT4
700	700 EFI/FIS	2006-10	CBTX14AH-BS	CX14AH	ULT3
700	700 CORE/TRV/XT	2009-21	CBTX20-BS	CX20L	ULT4
700	700 PROWLER	2010-17	CIX30L-BS	CX30L	ULT5
700	700 WILDCAT SPORT/TRAIL	2015-19	CIX30L-BS	CX30L	ULT5
1000	1000 PROWLER	2009-17	CIX30L-BS	CX30L	ULT5
1000	1000 WILDCAT	2012-19	CIX30L-BS	CX30L	ULT5
1000	1000 H2/THUNDERCAT	2008-17	CBTX20-BS	CX20L	ULT4
<b>BOMBARDIER / CAN-AM</b>					
50	DS50	2002-06	CBTX4L-BS		ULT1
70	DS70	2009-22	CBTX4L-BS		ULT1
90	DS90	2009-22	CBTX4L-BS		ULT1
250	DS250	2006-22	CBTX15L-BS	CX12	ULT2
330	OUTLANDER 330	2004-05	CBTX15L-BS		ULT3
400	OUTLANDER 400	2003-05	CBTX15L-BS		ULT3
400	OUTLANDER 400 EFI	2004-15	CBTX20L-BS	CX20L	ULT4
450	DS450	2008-15	CT7B-BS		ULT1
450	OUTLANDER 450	2015-17	CBTX20L-BS	CX20L	ULT4
500	OUTLANDER 500	2007-17	CBTX20L-BS	CX20L	ULT4
570	OUTLANDER 570	2016-19	CBTX20L-BS	CX20L	ULT4
650	DS650	2000-07	CBTX15L-BS		ULT3
650	OUTLANDER 650	2006-17	CBTX20L-BS	CX20L	ULT4
800	COMMANDER 800	2011-20	CBTX20L-BS	CX20L	ULT4
800	DEFENDER 800	2016-21	CBTX20L-BS	CX20L	ULT4
800	DEFENDER 800XT	2016-21	CIX30L-BS	CX30L	ULT5
800	OUTLANDER 800	2006-15	CBTX20L-BS	CX20L	ULT4
800	TRAXTER PRO/XT 800	2017-20	CIX30L-BS	CX30L	ULT5
850	OUTLANDER 850	2016-19	CBTX20L-BS	CX20L	ULT4
850	RENEGADE 850	2016-19	CBTX20L-BS	CX20L	ULT4
1000	COMMANDER 1000	2011-21	CBTX20L-BS	CX20L	ULT4
1000	DEFENDER 1000	2016-22	CBTX20L-BS	CX20L	ULT4
1000	DEFENDER 1000 MAX	2017-22	CIX30L-BS	CX30L	ULT5
1000	MAVERICK 1000	2013-22	CBTX20L-BS	CX20L	ULT4
1000	OUTLANDER 1000	2013-22	CBTX20L-BS	CX20L	ULT4
1000	RENEGADE 6x6 1000	2013-22	CBTX20L-BS	CX20L	ULT4
1000	TRAXTER 1000	2016-22	CBTX20L-BS	CX20L	ULT4

CC	MODEL	YEAR	MF SERIES	CX SERIES	LITHIUM EXTRA
<b>CANNONDALE</b>					
400/440	All Models	2001-03	CBTX9-BS	CX9	ULT2
<b>CF MOTO</b>					
400	CFORCE 400	2016-19	CIX30L-BS	CX30L	ULT5
500	CFORCE 500	2007-14	CBTX20L-BS	CX20L	ULT4
500	CFORCE 500	2016-19	CIX30L-BS	CX30L	ULT5
600	CFORCE 600	2019-	CIX30L-BS	CX30L	ULT5
800	CFORCE 800	2012-19	CIX30L-BS	CX30L	ULT5
1000	CFORCE 1000	2021-	CIX30L-BS	CX30L	ULT5
<b>DERBI</b>					
200	DXR 200 QUAD	2004-05	CBTX9-BS	CX9	ULT1
250	DXR 250 QUAD	2004-05	CBTX9-BS	CX9	ULT1
<b>E-TON</b>					
50	50 AXL/TXL/NXL	1999-03	CBTX4L-BS		ULT1
50	50 ALL MODELS	2004-08	CBTX5L-BS		ULT1
70	VIPER 70	thru 2013	CBTX5L-BS		ULT1
90	90 AXL/TXL/NXL	1999-03	CBTX4L-BS		ULT1
90	90 ALL MODELS	2004-13	CBTX5L-BS		ULT1
90	90 DXL SIERRA	2000-03	CBTX5L-BS		ULT1
150	CXL 150 YUKON	2000-13	CBTX9-BS	CX9	ULT2
150	YXL 150 YUKON	2000-03	CBTX9-BS	CX9	ULT2
150	VIPER 150	thru 2013	CBTX9-BS	CX9	ULT2
250	VECTOR 250	thru 2013	CBTX12-BS	CX12	ULT2
<b>HONDA</b>					
90	TRX90	2006-22	CBTX5L-BS		ULT1
125	ATC125	1984-85	CBTX9A-BS	CX9	ULT2
125	ATC125	1986-87	CBTX12-BS	CX12	ULT2
125	TRX125	1985-86	CBTX9A-BS	CX9	ULT2
125	TRX125	1987-88	CBTX9-BS	CX9	ULT2
200	ATC200 BIG RED	1982-84	CBTX14AH-BS	CX14AH	ULT3
200	ATC200M	1984-85	CBTX14AH-BS	CX14AH	ULT3
200	TRX200 FOURTRAX	1984-	CBTX14AH-BS	CX14AH	ULT3
200	TRX200SX	1986-88	CBTX12-BS	CX12	ULT2
200	TRX200	1990-96	CBTX12-BS	CX12	ULT2
250	ATC250ES	1985-87	CBTX12-BS	CX12	ULT2
250	ATC250SX	1985-87	CBTX12-BS	CX12	ULT2
250	TRX250 FOURTRAX	1985-87	CBTX12-BS	CX12	ULT2
250	TRX250	1997-08	CBTX12-BS	CX12	ULT2
250	TRX250EX	2001-19	CBTX9-BS	CX9	ULT2
250	TRX250 RECON	1997-22	CBTX12-BS	CX12	ULT2
300	TRX300 FOURTRAX	1988-00	CBTX14-BS	CX14	ULT3
300	TRX300EX	1993-12	CBTX9-BS	CX9	ULT2
300	TRX300 FW	1988-00	CBTX14-BS	CX14	ULT3
350	FL350 ODYSSEY	1985-	CBTX12-BS	CX12	ULT2
350	TRX350 FOREMAN	1987-89	CBTX14-BS	CX14	ULT3
350	TRX350 FOURTRAX	1986-89	CBTX14-BS	CX14	ULT3
350	TRX350 RANCHER	2000-06	CBTX14-BS	CX14	ULT3
400	FL400 PILOT	1989-90	CBTX14-BS	CX14	ULT3
400	TRX400 RANCHER FA	2004-07	CBTX14-BS	CX14	ULT3
400	TRX400EX SPORTRAX	1999-14	CBTX9-BS	CX9	ULT2
400	TRX400FW FOREMAN	1995-03	CBTX14-BS	CX14	ULT3
420	TRX420 FE/FM/TE/TM	2007-17	CBTX14-BS	CX14	ULT3
420	TRX420 FA	2014-22	CBTX14-BS	CX14	ULT3
450	TRX450ER	2006-14	CTZ7S-BS		ULT1
450	TRX450ES/S	1998-04	CBTX14-BS	CX14	ULT3
500	PIONEER 500	2015-18	CBTX14-BS	CX14	ULT3
500	TRX500 RUBICON	2001-11	CBTX14-BS	CX14	ULT3
500	TRX500ES FOREMAN	2005-08	CBTX14-BS	CX14	ULT3
500	TRX500FE/FM/TM	2005-14	CBTX14-BS	CX14	ULT3
520	TRX520	2020-21	CBTX14-BS	CX14	ULT3
650	TRX650 RINCON	2003-05	CBTX14-BS	CX14	ULT3

ARCTIC CAT  
CAN-AM  
HONDA  
KAWASAKI  
KTM  
KYMCO  
POLARIS  
SUZUKI  
YAMAHA  
UNIBAT  
AP BRAKES



CC	MODEL	YEAR	MF SERIES	CX SERIES	LITHIUM EXTRA
<b>HONDA (Continued)</b>					
680	TRX680 RINCON	2006-22	CBTX20L-BS	CX20L	ULT4
700	MUV700	2009-13	CBTX14-BS	CX14	ULT3
700	PIONEER 700	2014-20	CBTX14-BS	CX14	ULT3
700	TRX700XX	2008-13	CBTX9-BS	CX9	ULT2
1000	PIONEER 1000	2016-22	CBTX14-BS	CX14	ULT3
1000	TALON 1000 R/X	2019-22	CBTX20HL-BS	CX20L	ULT4
<b>HYOSUNG</b>					
50	TE50	2005-	CBTX5L-BS		ULT1
90	TE90	2005-	CBTX5L-BS		ULT1
450	TE450	2007-	CBTX9-BS	CX9	ULT2
450	TE450S	2010-13	CBTX9-BS	CX9	ULT2
<b>KASEA</b>					
50	MINI SKYHAWK 50	ALL YEARS	CBTX4L-BS		ULT1
50	SKYHAWK 50	ALL YEARS	CBTX5L-BS		ULT1
65	KS/KU 65	ALL YEARS	CBTX7A-BS		ULT1
90	KS/KU 90	ALL YEARS	CBTX7A-BS		ULT1
90	SKYHAWK 90	ALL YEARS	CBTX5L-BS		ULT1
125	KS/KU 125	ALL YEARS	CBTX7A-BS		ULT1
150	SKYHAWK 150	ALL YEARS	CBTX7A-BS		ULT1
170	SKYHAWK 170	ALL YEARS	CBTX7A-BS		ULT1
250	SKYHAWK 250	ALL YEARS	CBTX7A-BS		ULT1
<b>KAWASAKI</b>					
50	KFX50	2007-22	CBTX5L-BS		ULT1
80	KFX80	2003-06	CBTX5L-BS		ULT1
90	KFX90	2007-22	CBTX5L-BS		ULT1
110	KLF110 MOJAVE	1987-88	CBTX9A-BS		ULT2
185	KLF185 BAYOU	1985-88	CB10L-B2-SM		
200	KLT200A	1981-84	CB10L-B2-SM		
200	KLT200B	1983-	CB12A-A-SM		
200	KLT200C	1981-84	CB10L-B2-SM		
220	KLF220 BAYOU	1988-02	CB10A-A2-SM		
250	KLF250 BAYOU	2003-12	CBTX14AH-BS	CX14AH	ULT3
300	KEF300 LAKOTA SPORT	0995-03	CBTX14AH-BS	CX14AH	ULT3
300	KLF300 BAYOU	1988-00	CBTX14AH-BS	CX14AH	ULT3
300	KVF300 PRAIRIE	1999-02	CBTX14AH-BS	CX14AH	ULT3
300	KVF300 BRUTE FORCE	2013-22	CBTX12-BS	CX12	ULT2
360	KVF360 PRAIRIE	2003-13	CBTX14AH-BS	CX14AH	ULT3
400	KLF400 BAYOU	1993-00	CB16CL-B-SM		
400	KSF/KFX400	2003-06	CBTX9-BS	CX9	ULT2
400	KVF400 PRAIRIE	1997-02	CBTX14AH-BS	CX14AH	ULT3
450	KFX450R	2008-14	CBTX7L-BS		ULT1
500	MULE 500,520,550	ALL YEARS	CBTX14AH-BS	CX14AH	ULT3
600	KAF400 MULE 600/610	2005-16	CBTX14AH-BS	CX14AH	ULT3
450	KAF450 MULE 1000	ALL YEARS	CB16CL-B-SM		
540	KAF540 MULE 2010	ALL YEARS	CB16CL-B-SM		
620	KAF620	ALL YEARS	CB16CL-B-SM		
620	MULE 2500/2510/2520	ALL YEARS	CB16CL-B-SM		
620	MULE 3000/3010/3020	ALL YEARS	CBTX20L-BS	CX20L	ULT4
620	KAF620 ADVANTAGE	2003-07	CBTX20L-BS	CX20L	ULT4
620	KAF620 CANADIAN	2009-16	CBTX20HL-BS	CX20HL	ULT4
650	BRUTE FORCE 650	2005-13	CBTX14-BS	CX14	ULT3
650	PRAIRIE 650	2002-03	CBTX14-BS	CX14	ULT3
700	KFX/KVF700	2004-09	CBTX14-BS	CX14	ULT3
750	KVF750 BRUTE FORCE	2005-22	CBTX14-BS	CX14	ULT3
750	TERYX 750	ALL YEARS	CALL		CALL
800	TERYX4 800	ALL YEARS	CALL		CALL
820	820 MULE		OEM		CALL
950	KAF950 MULE		OEM		CALL
1000	TERYX KRX1000	ALL YEARS	OEM		CALL

CC	MODEL	YEAR	MF SERIES	CX SERIES	LITHIUM EXTRA
<b>KTM</b>					
450	450 SX/XC	2008-10	CBTX5L-BS		ULT1
505	505 SX/XC	2008-09	CBTX5L-BS		ULT1
525	525 SX	ALL	CBTX5L-BS		ULT1
<b>KYMCO</b>					
50/90	MONGOOSE 50/90	ALL YEARS	CBTX5L-BS		ULT1
150	MXU150	ALL YEARS	CBTX9-BS	CX9	ULT2
250/300	MONGOOSE 250/300	ALL YEARS	CBTX12-BS	CX12	ULT2
250/300	MXU250/300	ALL YEARS	CBTX12-BS	CX12	ULT2
450	MAXXER 450	ALL YEARS	CBTX20L-BS	CX20L	ULT4
450/500	UXV450/500/700	ALL YEARS	CBTX20L-BS	CX20L	ULT4
500	MXU500	ALL YEARS	CBTX20L-BS	CX20L	ULT4
700	MXU700	ALL YEARS	CBTX20L-BS	CX20L	ULT4
<b>POLARIS</b>					
50	PREDATOR 50	2004-07	CBTX5L-BS		ULT1
50	OUTLAW 50	2008-19	CBTX5L-BS		ULT1
50	SCRAMBLER 50	2001-03	CBTX5L-BS		ULT1
70	OUTLAW 70	2022-	CBTX9-BS	CX9	ULT2
90	PREDATOR 90	2003-06	CBTX5L-BS		ULT1
90	OUTLAW 90	2007-16	CBTX5L-BS		ULT1
90	SPORTSMAN 90	2001-16	CBTX5L-BS		ULT1
90	SCRAMBLER 90	2001-03	CBTX5L-BS		ULT1
110	OUTLAW 110	2016-22	CBTX5L-BS		ULT1
110	SPORTSMAN 110	2016-22	CBTX5L-BS		ULT1
150	RANGER/ACE 150 EFI	2017-22	CBTX9-BS	CX9	ULT2
170	RZR 170	2009-21	CBTX12-BS	CX12	ULT2
200	PHOENIX 200	2005-22	CBTX12-BS	CX12	ULT2
200	SAWTOOTH 200	2006-	CBTX12-BS	CX12	ULT2
250	250 ALL MODELS	1985-06	CBTX14AH-BS	CX14AH	ULT3
300	300 HAWKEYE	2006-10	CB14-BS-SM		
325	325 ALL MODELS	1987-02	CBTX14AH-BS	CX14AH	ULT3
330	330 MAGNUM	2003-13	CBTX14AH-BS	CX14AH	ULT3
330	330 TRAILBOSS	2003-13	CBTX14AH-BS	CX14AH	ULT3
330	330 ACE	2014-15	CBTX14AH-BS	CX14AH	ULT3
335	335 SPORTSMAN	1998-01	CBTX14AH-BS	CX14AH	ULT3
350	350 ALL MODELS	1990-96	CBTX14AH-BS	CX14AH	ULT3
400	400 ALL MODELS	1994-14	CBTX14AH-BS	CX14AH	ULT3
425	425 ALL MODELS	1995-02	CBTX14AH-BS	CX14AH	ULT3
450	450 DIESEL (PRIMARY)	1999-03	CIX30L-BS	CX30L	ULT5
450	450 DIESEL (SECONDARY)		CBTX14AH-BS	CX14AH	ULT3
450	OUTLAW 450	2008-10	CBTX9-BS	CX9	ULT2
450	SPORTSMAN HO 450	2016-20	CBTX14AH-BS	CX14AH	ULT3
500	500 ALL MODELS	1999-12	CBTX14AH-BS	CX14AH	ULT3
500	OUTLAW 500	2006-07	CBTX9-BS	CX9	ULT2
500	PREDATOR 500	2003-07	CBTX9-BS	CX9	ULT2
500	RANGER 500 4X4	2004-10	CIX30L-BS	CX30L	ULT5
500	RANGER 500 6X6	1998-00	CIX30L-BS	CX30L	ULT5
500	SPORTSMAN 500 EFI	2006-10	CBTX20HL-BS	CX20L	ULT4
525	OUTLAW 525	2008-11	CBTX9-BS	CX9	ULT2
550	SPORTSMAN 550	2010-14	CBTX14AH-BS	CX14AH	ULT3
570	RZR 570	2012-17	CBTX14AH-BS	CX14AH	ULT3
570	RZR 570 EPS	2012-17	CIX30L-BS	CX30L	ULT5
570	RANGER 570	2014-22	CBTX14AH-BS	CX14AH	ULT3
570	SPORTSMAN 570	2015-22	CBTX14AH-BS	CX14AH	ULT3
600	SPORTSMAN 600	2003-05	CIX30L-BS	CX30L	ULT5
700	RANGER 700 4X4	2006-10	CIX30L-BS	CX30L	ULT5
700	RANGER 700 6X6	2006-10	CIX30L-BS	CX30L	ULT5
700	SPORTSMAN 700	2002-06	CIX30L-BS	CX30L	ULT5
800	RANGER 800	2010-14	CIX30L-BS	CX30L	ULT5
800	RZR 800 EFI "S"	2008-14	CBTX20HL-BS	CX20L	ULT4
800	RZR 4/S 800	2010-14	CIX30L-BS	CX30L	ULT5



# UNIBAT BATTERIES ATV & UTV

CC	MODEL	YEAR	MF SERIES	CX SERIES	LITHIUM EXTRA
<b>POLARIS (Continued)</b>					
800	SPORTSMAN 800 EFI/HO	2005-14	CIX30L-BS	CX30L	ULT5
800	SPORTSMAN FOREST	2005-14	CBTX20HL-BS	CX20L	ULT4
850	SCRAMBLER 850	2013-18	CBTX20HL-BS	CX20L	ULT4
850	SCRAMBLER 850 48"	2019-22	CIX30L-BS	CX30L	ULT5
850	SPORTSMAN 850 WV	2009-22	CIX30L-BS	CX30L	ULT5
850	SPORTSMAN 850 XP/EPS	2010-21	CBTX20HL-BS	CX20L	ULT4
900	ACE 900 EFI EPS	2016-19	CIX30L-BS	CX30L	ULT5
900	RZR900	2011-14	CIX30L-BS	CX30L	ULT5
900	RANGER XP 900	2016-	CIX30L-BS	CX30L	ULT5
1000	SCRAMBLER 1000	2014-18	CBTX20HL-BS	CX20L	ULT4
1000	SPORTSMAN 1000	2015-21	CBTX20HL-BS	CX20L	ULT4
1000	SPORTSMAN 1000 48"	2019-22	CIX30L-BS	CX30L	ULT5
1000	RZR XP/4 1000	2015-21	CIX30L-BS	CX30L	ULT5
1000	RZR XP PRO 1000	2020-22	CIX30L-BS	CX30L	ULT5
1000	RZR TURBO R 1000	2020-22	CIX30L-BS	CX30L	ULT5
1000	RANGER XP 1000	2017-22	CIX30L-BS	CX30L	ULT5
1000	SLINGSHOT	2016-22	CIX30L-BS	CX30L	ULT5
<b>QIANJIANG</b>					
50/100	ATV 50/100	ALL YEARS	CBTX4L-BS		ULT1
<b>SYM</b>					
180	TRACK RUNNER 180	ALL YEARS	CBTX12-BS		ULT2
250	QUAD LENDER 250	2006-07	CBTX12-BS		ULT2
300	QUAD LENDER 300	2007-08	CBTX12-BS		ULT2
<b>SUZUKI</b>					
50	LTZ50 QUADSPORT	2006-10	CBTX5L-BS		ULT1
80	LT80 QUADSPORT	ALL YEARS	CBTX5L-BS		ULT1
90	LTZ-90	2007-21	CBTX7A-BS		ULT1
160	LT160E	1989-04	CB9A-A-SM		
160	LT160	1991-01	CB9A-A-SM		
230	LT230E QUADRUNNER	1988-93	CBTX12-BS	CX12	ULT2
230	LT230GE	1985-87	CB10A-A2-SM		
250	LT250EF	1985-86	C50-N18A-A-SM		
250	LTF250 QUADRUNNER	1988-02	CBTX14AH-BS	CX14AH	ULT3
250	LTF250 OZARK	2002-16	CBTX12BS	CX12	ULT2
250	LTZ250 QUADSPORT	2004-11	CBTX12-BS	CX12	ULT2
280	LTF280 KINGQUAD	1991-99	CBTX14AH-BS	CX14AH	ULT3
300	LT300E QUADRUNNER	1987-89	CBTX14AH-BS	CX14AH	ULT3
300	LTF300 KING QUAD	1999-02	CBTX14AH-BS	CX14AH	ULT3
400	LT-A 400 EIGER 2X4	2002-07	CBTX14-BS	CX14	ULT3
400	LT-F 400 EIGER 4X4	2002-07	CBTX14-BS	CX14	ULT3
400	LTZ400 QUADSPORT	2003-16	CBTX9-BS	CX9	ULT2
400	LT-A 400 KINGQUAD	2002-21	CBTX14-BS	CX14	ULT3
450	LT-A 450 KINGQUAD	2007-10	CBTX14-BS	CX14	ULT3
450	LT-R 450 QUADRACER	2006-09	CBTX7A-BS		ULT1
500	LT-A 500F	2000-01	CBTX16-BS	CX16B	ULT3
500	LT-A 500 KING QUAD	2002-21	CBTX20CH-BS	CX20L	ULT4
500	LT-A/F 500F	1998-03	CBTX16-BS	CX16B	ULT3
500	LT-F 500F VINSON	2004-07	CBTX20CH-BS	CX20L	ULT4
620	QUV 620F	2005-	CBTX20L-BS	CX20L	ULT4
700	LT-A 700 KING QUAD	2005-07	CBTX20CH-BS	CX20L	ULT4
700	LT-V 700F TWIN	2004-05	CBTX14-BS	CX14	ULT3
750	LT-A 750 KING QUAD	2008-21	CBTX20CH-BS	CX20L	ULT4

CC	MODEL	YEAR	MF SERIES	CX SERIES	LITHIUM EXTRA
<b>YAMAHA</b>					
50	RAPTOR 50	2004-09	12N7D-3B-SM		
50	YFZ50	2017-22	CBTX5L-BS		ULT1
80	BADGER YFM80	1985-01	12N7D-3B-SM		
80	GRIZZLY YFM80	2005-08	12N7D-3B-SM		
80	RAPTOR YFM80	2002-08	12N7D-3B-SM		
90	RAPTOR YFM90	2009-22	CBTX5L-BS		ULT1
100	CHAMP YFM100	1987-91	12N7D-3B-SM		
125	BREEZE YFA 125	1989-04	CB12C-A-SM		
125	YFM125S	2004-12	CB12C-A-SM		
125	RAPTOR YFM125R	2011-13	CTZ7S-BS		ULT1
200	YFM200 MOTO-4	1985-89	CB14A-A1-SM		
200	TRI-MOTO YTM200	1983-85	CB14A-A1-SM		
225	TRI-MOTO YTM225	1983-86	CB14A-A1-SM		
225	YFM225 MOTO-4	1986-88	CB14A-A1-SM		
250	YFB250 TIMBERWOLF	1992-00	CB12C-A-SM		
250	YFM250 BEARTRACKER	1999-04	CB14A-A1-SM		
250	YFM250 BIG BEAR	2007-08	CB14A-A1-SM		
250	YFM250 BRUIN	2005-06	CB14A-A1-SM		
250	YFM250 MOTO-4	1989-91	CB14A-A1-SM		
250	YFM250R RAPTOR	2008-13	CTZ7S-BS		ULT1
300	GRIZZLY 300	2011-13	CBTX12-BS	CX12	ULT2
350	YFM350 BRUIN	2004-06	CBTX14AH-BS	CX14AH	ULT3
350	GRIZZLY YFM350	2007-14	CBTX14AH-BS	CX14AH	ULT3
350	RAPTOR YFM350	2004-13	CTZ10S-BS		ULT2
350	YFP350 TERRA PRO	1988-	CB14A-A1-SM		
350	YFM350 MOTO-4	1987-95	CB14A-A1-SM		
350	YFM350 BIG BEAR	1987-99	CB14A-A1-SM		
350	YFM350 WOLVERINE	1995-05	CB12C-A-SM		
350	YFM350 WOLVERINE	2006-08	CBTX14AH-BS	CX14AH	ULT3
350	YFM350 WARRIOR	1987-03	CB12C-A-SM		
400	YFM400 BIG BEAR	2000-12	CBTX20L-BS	CX20L	ULT4
400	YFM400 GRIZZLY	2007-08	CBTX14AH-BS	CX14AH	ULT3
400	YFM400 KODIAK	1993-95	CB14A-A1-SM		
400	YFM400 KODIAK	1996-02	CBTX20L-BS	CX20L	ULT4
400	YFM400 KODIAK	2003-06	CBTX14AH-BS	CX14AH	ULT3
450	YFM450 GRIZZLY	2007-14	CBTX20L-BS	CX20L	ULT4
450	YFM450 KODIAK	2003-06	CBTX20L-BS	CX20L	ULT4
450	YFM450 WOLVERINE	2003-10	CBTX20L-BS	CX20L	ULT4
450	YFZ450	2004-09	CT7B-BS		ULT1
450	YFZ450	2012-13	CT7B-BS		ULT1
450	YFZ450R/X	2009-22	CTZ7S-BS		ULT1
550	YFM550 GRIZZLY	2009-14	CBTX20L-BS	CX20L	ULT4
600	YFM600 GRIZZLY	1998-01	CBTX20L-BS	CX20L	ULT4
660	YFM660 GRIZZLY	2002-08	CBTX20L-BS	CX20L	ULT4
660	YFM660 RAPTOR	2001-05	CBTX14-BS	CX14	ULT3
700	YFM700 KODIAK	2016-22	CBTX20L-BS	CX20L	ULT4
700	YFM700 GRIZZLY	2007-22	CBTX20L-BS	CX20L	ULT4
700	YFM700R RAPTOR	2006-22	CT9B-BS	CX9	ULT1
450	RHINO 450	2004-09	CALL		
660	RHINO 660	2004-07	CALL		
700	PRO HAULER 700	2004-	CALL		ULT4/ ULT5
1000	PRO HAULER 1000	2004-	CALL		ULT4/ ULT5
700	RHINO 700	2008-13	CALL		ULT4/ ULT5
700	VIKING 700	2014-22	CALL		ULT4/ ULT5
700	WOLVERINE 700	2016-22	CALL		ULT4/ ULT5
1000	YXZ1000R SXS	2016-22	CALL		ULT4/ ULT5



# AP BRAKES SINTERED BRAKE PADS

AP Brake Sintered Brake Pads are manufactured with a material compound that is formulated to provide premium stopping power, excellent feel, and long wear life. Popular choice for OE pad replacement for leading ATV and UTV's. Quality matches or exceeds all leading "alphabet" brake pad brands.

**AP 'OR' Series**  
**Sintered Brake Pads**  
 Retail Price **\$31.95**

ARCTIC CAT ATV					
MODEL	YEAR	FRONT		REAR	
250 2X4	99-04	Left/Right	358 AOR *	358 AOR	
250 4X4	01-04	Left/Right	358 AOR *	358 AOR	
300 2X4	98-04	Left/Right	358 AOR *	358 AOR	
300 4X4	01-04	Left/Right	358 AOR *	358 AOR	
375 2X4, 4X4 W/AT	02	Left/Right	358 AOR *	358 AOR	
400 2X4	98-01	Left/Right	358 AOR *	358 AOR	
400 4X4	98-00	Left/Right	358 AOR *	358 AOR	
400 4X4 W/AT	03-04	Left/Right	358 AOR *	358 AOR	
400 4X4 W/MT	01-04	Left/Right	358 AOR *	358 AOR	
400 FIS 2X4 W/AT	03-04	Left/Right	358 AOR *	358 AOR	
400 FIS 2X4 W/MT	02-04	Left/Right	358 AOR *	358 AOR	
400 FIS 4X4 W/AT	03-04	Left/Right	358 AOR *	358 AOR	
400 FIS 4X4 W/MT	02-04	Left/Right	358 AOR *	358 AOR	
400 DVX	04-08	Left/Right	192 OR *	249 OR	
454 2X4	97-98	Left/Right	358 AOR *	358 AOR	
454 4X4	96-98	Left/Right	358 AOR *	358 AOR	
500 4X4	98-99	Left/Right	358 AOR *	358 AOR	
500 4X4 W/AT	00-02	Left/Right	358 AOR *	358 AOR	
500 4X4 W/MT	00-01	Left/Right	358 AOR *	358 AOR	
500 FIS 4X4 W/AT	02-04	Left/Right	358 AOR *	358 AOR	
500 FIS 4X4 W/MT	02-04	Left/Right	358 AOR *	358 AOR	
500 FIS TRV 4X4	03-04	Left/Right	358 AOR *	358 AOR	

CAN AM ATV					
MODEL	YEAR	FRONT		REAR	
OUTLANDER 330	04-05	Left	354 OR	354 OR	
		Right	367 OR		
OUTLANDER 400	03-04	Left	354 OR	354 OR	
		Right	367 OR		
OUTLANDER 400 MAX HO	03-06	Left	354 OR	3543 OR	
		Right	367 OR		
OUTLANDER 400 4X4 STD	07-15	Left	354 OR	354 OR	
		Right	367 OR		
OUTLANDER 400 4X4 XT	07-14	Left	354 OR	354 OR	
		Right	367 OR		
OUTLANDER MAX 400 4X4 STD	07-14	Left	354 OR	354 OR	
		Right	367 OR		
OUTLANDER MAX 400 4X4 XT	07-14	Left	354 OR	354 OR	
		Right	367 OR		
OUTLANDER 400 EFI STD	15	Left	354 OR	354 OR	
		Right	367 OR		
OUTLANDER 500 4X4 STD/XT	07-12	Left	354 OR	367 OR	
		Right	367 OR		
QUEST 500	02-04	Left	354 OR	354 OR	
		Right	367 OR		
RENEGADE 500	08-12	Left	354 OR	367 OR	
		Right	367 OR		
TRAXTER MAX 500	03-05	Left	354 OR	367 OR	
		Right	367 OR		
OUTLANDER 650 4X4 STD/XT	07-12	Left	367 OR	354 OR	
		Right	354 OR		
OUTLANDER MAX 650 STD/XT	07-12	Left	367 OR	354 OR	
		Right	354 OR		
OUTLANDER 800 4X4 STD/XT	08-12	Left	354 OR	354 OR	
		Right	367 OR		
OUTLANDER 800 XMR	11-12	Left	354 OR	354 OR	
		Right	367 OR		
OUTLAND 800R 4X4 STD/XT	09-11	Left	354 OR	354 OR	
		Right	367 OR		
OUTLAND MAX 800 4X4 LTD	07-08	Left	354 OR	354 OR	
		Right	367 OR		
OUTLANDER MAX 800 STD/XT	06-08	Left	354 OR	354 OR	
		Right	367 OR		
OUTLANDER MAX 800R LTD OUTLANDER MAX 800R STD	09-12	Left	354 OR	354 OR	
		Right	367 OR		
RENEGADE 800 4X4	07-11	Left	354 OR	354 OR	
		Right	367 OR		
RENEGADE 850 EFI	16-19	Left	354 OR	367 OR	
		Right	367 OR		

CAN AM UTV / SXS				
MODEL	YEAR	FRONT		REAR
COMMANDER 800R XT DPS	11-16	Left	238 OR	
		Right	211 OR	
COMMANDER 1000	11-16	Left	238 OR	
		Right	211 OR	
COMMANDER MAX 1000 DPS/LTD/XT	11-16	Left	238 OR	354 OR
		Right	211 OR	367 OR
MAVERICK MAX 1000R XMR / XXC	13	Left	238 OR	354 OR
		Right	211 OR	367 OR
MAVERICK 1000	14-19	Left	238 OR	
		Right	211 OR	
MAVERICK MAX 1000 STD/XDS-DPS/XDR-DPS	14-17	Left		354 OR
		Right		367 OR

HONDA ATV				
MODEL	YEAR	FRONT		REAR
ATC-200X	83-85		192 OR	
ATC-200X	86-87		192 OR	192 OR
ATC-250R	81-82		136 OR	
ATC-250R	83-84		192 OR	192 OR
ATC-250R	85-86		158 OR	158 OR
TRX-250R	87-89	Left/Right	203 OR	158 OR
TRX-250X FOURTRAX	87-92	Left/Right	192 OR	192 OR
TRX-250 EX SPORTRAX	01-08	Left/Right	192 OR	
TRX-250 X	09-14	Left/Right	192 OR	
TRX-300 EX FOURTRAX	93-08	Left/Right	192 OR	192 OR
TRX-300 X	09-11	Left/Right	192 OR	192 OR
ATC-350 X	85		158 OR	192 OR
ATC-350 X	86		203 OR	192 OR
TRX-400 EX / X	99-14	Left/Right	192 OR	192 OR
TRX-420 FA	09-21	Left/Right	192 OR	
TRX-420 FE / FM	07-21	Left/Right	192 OR	
TRX-420 FPA	09-14	Left/Right	192 OR	
TRX-420 FPE / FPM	09-13	Left/Right	192 OR	
TRX-420 TE / TM	07-21	Left/Right	192 OR	
TRX-450R / ER	04-11	Left/Right	294 OR	
TRX-500 FA FOREMAN	15-19	Left/Right	192 OR	
TRX-500 FE / FM FOREMAN	12-21	Left/Right	192 OR	
TRX-500 FPE / FPM	12-3	Left/Right	192 OR	
TRX-520 FE / FM	20	Left/Right	192 OR	

KAWASAKI ATV				
MODEL	YEAR	FRONT		REAR
KSF-250 MOJAVE	87-04	Left/Right		192 OR
KXF-250 TECATE 4	87-88			192 OR
KEF-300 LAKOTA	95-00	Left/Right		192 OR
KEF-300 LAKOTA SPORT	01-04	Left/Right		192 OR
KLF-300 C BAYOU 4X4	89-05	Left	211 OR	
		Right	238 OR	
KVF-300 A PRAIRIE 4X4	99-02	Left/Right	136 OR	
KVF-300 B PRAIRIE 2X4	99-02	Left/Right	136 OR	
KVF-360 PRAIRIE 4X4 (ALL)	03-13	Left/Right	136 OR	
KLF-400 B BAYOU 4X4	93-99	Left	211 OR	
		Right	238 OR	
KFX-400	03-06	Left/Right	192 OR	249 OR
KVF-400 A/B PRAIRIE	97-98	Left/Right	136 OR	
KVF-400 C/D PRAIRIE 4X4	99-02	Left/Right	136 OR	
KFX-450R	08-14	Left/Right		192 OR
KVF-650 F BRUTE FORCE 4X4I	06-12	Left	211 OR	
		Right	238 OR	
KVF-650 G BRUTE FORCE 4X4I	06-10	Left	211 OR	
		Right	238 OR	
KVF-650 H BRUTE FORCE 4X4I	07-08	Left	211 OR	
		Right	238 OR	
KVF-750 BRUTE FORCE 4X4I	05-21	Left	238 OR	
		Right	211 OR	
TRX-520 FE / FM	20	Left/Right	192 OR	



# AP BRAKES SINTERED BRAKE PADS

## KAWASAKI UTV / SXS

MODEL	YEAR	FRONT	REAR
TERYX 4 4X4	12-13	Left	211 OR
		Right	238 OR
TERYX 750 4X4	08-13	Left	211 OR
		Right	238 OR
TERYX 4 800 4X4	14-20	Left	211 OR
		Right	238 OR
KAF 820 MULE PRO FX/FXT	15-21	Left	238 OR
		Right	211 OR
KAF 1000 MULE PRO DX/DXT	16-21	Left	238 OR
		Right	211 OR

## POLARIS ATV

MODEL	YEAR	FRONT	REAR
250 2X4 / 4X4	90	Left/Right	316 AOR 317 AOR
250 2X4 / 4X4	93	Left/Right	316 AOR 317 AOR
250 TRAIL BLAZER	91-93	Left/Right	316 AOR 317 AOR
250 TRAIL BLAZER	99-04	Left/Right	316 AOR 317 AOR
250 TRAIL BLAZER	99-04	Left/Right	316 AOR 355 AOR
250 TRAIL BOSS	91-99	Left/Right	316 AOR 317 AOR
250 XPLODER 4X4	00-01	Left/Right	316 AOR 355 AOR
300 2X4, 4X4	94-95	Left/Right	316 AOR 317 AOR
300 HAWKEYE 2X4, 4X4	07-09	Left/Right	316 AOR 316 AOR
300 SPORTSMAN 4X4	08-11	Left/Right	316 AOR 316 AOR
300 XPLODER 4X4	96-00	Left/Right	316 AOR 317 AOR
300 XPRESS L	96-97	Left/Right	316 AOR 317 AOR
300 XPRESS 2X4	98-00	Left/Right	316 AOR 317 AOR
325 HAWKEYE 2X2	15	Left/Right	316 AOR
325 MAGNUM 2X4, 4X4	00-01	Left/Right	316 AOR 355 AOR
325 MAGNUM 2X4	02	Left/Right	316 AOR
325 TRAIL BOSS	00-02	Left/Right	316 AOR 355 AOR
325 XPEDITION	00	Left/Right	316 AOR 355 AOR
325 XPEDITION	02	Left/Right	316 AOR
330 ATP 4X4	04-05	Left/Right	316 AOR 316 AOR
330 MAGNUM 2X4, 4X4	03-06	Left/Right	316 AOR
330 TRAIL BLAZER	09-13	Left/Right	316 AOR
330 TRAIL BOSS	03-04	Left/Right	316 AOR 355 AOR
330 TRAIL BOSS	05-13	Left/Right	316 AOR
335 SPORTSMAN 4X4	99-00	Left/Right	316 AOR 355 AOR
350 L 2X4, 4X4	90, 93	Left/Right	316 AOR 317 AOR
350 SPORTSMAN 4X4	93	Left/Right	316 AOR 317 AOR
350 TRAIL BOSS L 2X4, 4X4	91-93	Left/Right	316 AOR 317 AOR
400 L 2X4, 4X4	94-95	Left/Right	316 AOR 317 AOR
400 BIG BOSS L 6X6	94-97	Left/Right	316 AOR 317 AOR
400 BIG BOSS 6X6 MIDDLE AXLE	94-95	Left/Right	316 AOR
400 BIG BOSS 6X6 MIDDLE AXLE	97	Left/Right	316 AOR
400 HAWKEYE HO 2X4	13-14	Left/Right	316 AOR
400 SCRAMBLER L 4X4	95-97	Left/Right	316 AOR 317 AOR
400 SCRAMBLER 4X4	98-02	Left/Right	316 AOR 355 AOR
400 SCRAMBLER 2X4, 4X4	00, 02	Left/Right	316 AOR 355 AOR
400 SPORT L	94-98	Left/Right	316 AOR 317 AOR
400 SPORT	99-00	Left/Right	316 AOR 355 AOR
400 SPORTSMAN L 4X4	94-97	Left/Right	316 AOR 317 AOR
400 SPORTSMAN	01-02	Left/Right	316 AOR 355 AOR
400 SPORTSMAN	03-04	Left/Right	316 AOR
400 SPORTSMAN HO 4X4	08-10	Left/Right	316 AOR 316 AOR
400 SPORTSMAN HO 4X4	11-14	Left/Right	316 AOR
400 TRAIL BLAZER	03	Left/Right	316 AOR 355 AOR
400 XPLODER L 4X4	95-98	Left/Right	316 AOR 317 AOR
400 XPLODER 4X4	99-02	Left/Right	316 AOR 355 AOR
425 MAGNUM 2X4, 4X4	95-98	Left/Right	316 AOR 317 AOR
425 XPEDITION 4X4	00	Left/Right	316 AOR 355 AOR
450 OUTLAW / MXR	08-10	Left/Right	316 AOR 316 AOR
450 SPORTSMAN	06-07	Left/Right	316 AOR
500 ATP HO 4X4	04-05	Left/Right	316 AOR 316 AOR
500 MAGNUM	99-01	Left/Right	316 AOR 355 AOR
500 MAGNUM 4X4 HDS	02-03	Left/Right	316 AOR
500 OUTLAW	06-07	Left/Right	316 AOR 316 AOR
500 PREDATOR	03-07	Left/Right	316 AOR 316 AOR
500 SCRAMBLER 2X4	01-02	Left/Right	316 AOR 355 AOR
500 SCRAMBLER 2X4	07-08	Left/Right	316 AOR
500 SCRAMBLER 4X4	97	Left/Right	316 AOR 317 AOR
500 SCRAMBLER 4X4	98-04	Left/Right	316 AOR 355 AOR
500 SCRAMBLER 4X4	05-12	Left/Right	316 AOR
500 SPORTSMAN 4X4	96-97	Left/Right	316 AOR 317 AOR
500 SPORTSMAN EBS 4X4	98-02	Left/Right	316 AOR 355 AOR
500 SPORTSMAN HO / EFI	03-12	Left/Right	316 AOR
500 SPORTSMAN X2	06-09	Left/Right	316 AOR
500 SPORTSMAN TOURING HO	08-10	Left/Right	316 AOR 316 AOR
500 SPORTSMAN TOURING HO	11-13	Left/Right	316 AOR
570 SPORTSMAN EFI (EPS)	11-15	Left/Right	316 AOR
600 SPORTSMAN 4X4	03-05	Left/Right	316 AOR
700 SPORTSMAN 4X4 EFI, MV	02-07	Left/Right	316 AOR
700 SPORTSMAN X2	08	Left/Right	316 AOR 316 AOR
800 SPORTSMAN EFI	05-13	Left/Right	316 AOR
800 SPORTSMAN BIG BOSS 6X6	09-14	Left/Right	316 AOR

## SUZUKI ATV

MODEL	YEAR	FRONT	REAR
LT-230 E	86-93	Left/Right	192 OR
LT-250R	87-92	Left/Right	249 OR
LT-250 SK/SL	89-90	Left/Right	192 OR
LTF-250 OZARK	02-19	Left/Right	136 OR
LTZ-250 QUADSPORT	04-13	Left/Right	136 OR
LTF-300 KING QUAD	02-03	Left	211 OR
		Right	238 OR
LT-A400 EIGER (ALL)	02-09	Left/Right	136 OR
LT-Z400 QUADSPORT	03-14	Left/Right	136 OR 249 OR
LT-R450 QUADRACER	06-11	Left	238 OR 249 OR
		Right	211 OR
LT-500R	87-90	Left/Right	249 OR
LT-A500 FY/FK1 QUADMASTER	00-01	Left	211 OR
		Right	238 OR
LT-A500 VINSON 4WD	02	Left/Right	136 OR 367 OR
LT-A500 VINSON 4WD	03-07	Left/Right	136 OR
LT-F500 F VINSON QUADRUNNER	03-07	Left/Right	136 OR
LT-F500 F QUADRUNNER	98-02	Left	211 OR
		Right	238 OR

## YAMAHA ATV

MODEL	YEAR	FRONT	REAR
YFM-125 RAPTOR	11-13	Left/Right	136 OR 192 OR
YFS-200 BLASTER	03-06	Left/Right	136 OR 192 OR
YFM-250 BEAR TRACKER	99-04	Left/Right	136 OR
YFM-250 BIG BEAR	07-09	Left/Right	136 OR 136 OR
YFM-250 BRUIN	05-06	Left/Right	136 OR
YFM-250R RAPTOR	08-13	Left/Right	192 OR
YTZ-250 TRI-MOTO	85-86	Left/Right	
YFM-350 BIG BEAR	96-99	Left/Right	136 OR
YFM-350 BRUIN 2X4, 4X4	04-06	Left/Right	136 OR
YFM-350 RAPTOR	04-13	Left/Right	192 OR 192 OR
YFM-350 XT WARRIOR	87-88	Left/Right	175 OR 192 OR
YFM-350 XT WARRIOR	89-04	Left/Right	136 OR 192 OR
YFM-350 FX WOLVERINE 4WD	95-05	Left/Right	136 OR 192 OR
YFM-350 V WOLVERINE 2WD	06-09	Left/Right	136 OR 136 OR
YFM-350 GRIZZLY 2X4, 4X4			
AUTO, (STRAIGHT AXLE)	07-13	Left/Right	136 OR
YFM-350 GRIZZLY 4X4 IRS	07-11	Left/Right	136 OR
YFZ-350 BANSHEE	87-89	Left/Right	192 OR
YFZ-350 BANSHEE	90-06	Left/Right	136 OR 192 OR
YFM-400 BIG BEAR (ALL)	00-04	Left/Right	136 OR
YFM-400 BIG BEAR 4X4	05-06	Left/Right	136 OR 354 OR
YFM-400 FG GRIZZLY 4X4	07-08	Left/Right	136 OR 354 OR
YFM-400 GRIZZLY AUTO 4X4 IRS	07	Left/Right	136 OR 354 OR
YFM-400 GRIZZLY 4X4 IRS	07-10	Left/Right	136 OR
YFM-400 KODIAK	00-02	Left/Right	136 OR 354 OR
YFM-400 FWL KODIAK	00-02	Left/Right	136 OR 354 OR
YFM-400 KODIAK 2X4, 4X4	03-04	Left/Right	136 OR
YFM-400 KODIAK	05	Left/Right	136 OR 354 OR
YFM-450 GRIZZLY 4X4	07-10	Left/Right	136 OR 354 OR
YFM-450 GRIZZLY AUTO 4X4 IRS	07	Left/Right	136 OR 354 OR
YFM-450 GRIZZLY AUTO 4X4	08-12	Left/Right	136 OR
YFM-450 GRIZZLY AUTO 4X4 EPS	11-14	Left/Right	136 OR
YFM-450 KODIAK	03-06	Left/Right	136 OR 354 OR
YFM-450 KODIAK IRS	06	Left/Right	136 OR 354 OR
YFM-450 WOLVERINE	06-10	Left/Right	136 OR 354 OR
YFZ-450	04-05	Left	238 OR 192 OR
		Right	211 OR
YFZ-450	06-09	Left	238 OR
		Right	211 OR
YFZ-450	12-13	Left	238 OR
		Right	211 OR
YFZ-450R / RR / RSE	09-15	Left	238 OR
		Right	211 OR
YFM-600 GRIZZLY	98-00	Left/Right	192 OR
YFM-660F GRIZZLY (ALL)	02-08	Left/Right	192 OR
YFM-660R RAPTOR (ALL)	01-05	Left/Right	192 OR 192 OR
YFM-700R RAPTOR (ALL)	06-12	Left	238 OR
		Right	211 OR
YFM-700R RAPTOR R / SE	13-19	Left	238 OR
		Right	211 OR

## YAMAHA UTV / SXS

MODEL	YEAR	FRONT	REAR
YXR-450 RHINO	04-09	Left	238 OR
		Right	211 OR
YXR-660R RHINO 4X4	04-07	Left	238 OR
		Right	211 OR
YXR-700 RHINO	08-09/11-13	Left	238 OR 238 OR
		Right	211 OR 211 OR
YTZ-250 TRI-MOTO	85-86	Left/Right	
YFM-350 BIG BEAR	96-99	Left/Right	136 OR



**136 OR**

Interchanges with:

PRO-X	37.202002
EBC	FA54R
SBS	536SI
DP	DP107



**158 OR**

Interchanges with:

PRO-X	37.208002
EBC	FA92R
SBS	558SI
DP	DP812



**175 OR**

Interchanges with:




**192 OR**

Interchanges with:

PRO-X	37.200802
EBC	FA84R
SBS	592SI
DP	DP811



**203 OR**

Interchanges with:

PRO-X	37.105302
EBC	FA125R
SBS	603SI
DP	DP814



**211 OR**

Interchanges with:

PRO-X	37.204302
EBC	FA135R
SBS	611SI
DP	DP411



**238 OR**

Interchanges with:

PRO-X	37.100202
EBC	FA165R
SBS	638SI
DP	DP412



**249 OR**

Interchanges with:

PRO-X	37.207402
EBC	FA137R
SBS	649SI
DP	DP817



**294 OR**

Interchanges with:

PRO-X	37.103202
EBC	FA185R
SBS	694SI
DP	DP321



**316 AOR**

Interchanges with:

PRO-X	37.206402
EBC	FA159R
SBS	716SI
DP	DP902



**317 AOR**

Interchanges with:

PRO-X	37.204402
EBC	FA232R
DP	DP909



**354 OR**

Interchanges with:

EBC	FA307R
SBS	754SI
DP	DP920



**355 AOR**

Interchanges with:

EBC	FA270R
SBS	755SI
DP	DP915



**358 AOR**

Interchanges with:

EBC	FA271R
SBS	758SI
DP	DP914



**367 OR**

Interchanges with:

EBC	FA317R
SBS	767SI
DP	DP919



## Terms, Conditions & Policies

**BUSINESS HOURS:** 8:00 a.m. to 5:00 p.m. Monday through Thursday, 8:00 a.m. to 4:30 p.m. Friday. Closed weekends and holidays.

**MINIMUM ORDERS:** A \$15.00 minimum applies to all orders.

**PAYMENT:** C.O.D., Credit/Debit on first order. Company check accepted after first order and receiving LASCO customer code number. No personal checks accepted. Dealers whose checks are returned for non-sufficient funds will be placed on a CASH-ONLY basis. Mastercard, VISA, Discover, American Express and PayPal.

**PRICE CHANGES:** Prices are subject to change without notice. Your invoice will show the current net price and should be reviewed upon receipt.

**RETURNS:** L.A. SLEEVE will not accept any returned goods without prior authorization. No returns accepted after 30 days. Returned merchandise must be accompanied by the following:

- A return authorization number (call for number). Display number on outside of carton.
- A copy of original invoice.
- A letter of explanation.

Merchandise must be returned freight prepaid. Shortages and discrepancies must be reported within ten days of invoice date. Refused orders and/or unwarranted returns shall be subject to a 25% restock handling charge, in addition to any incurred shipping charges. Credit will not be given on merchandise returned without a written explanation. Credit will be issued for returns that are accepted. No returns are allowed on gaskets, carburetors, jets and carb parts. No credit is given for returns that are not in original condition, or if any parts of a kit are missing.

**FOREIGN COUNTRIES:** Foreign orders are shipped on a prepaid basis unless prior arrangement is made with L.A. SLEEVE CO. Payment must be sent in U.S. funds, Foreign checks and currency are not accepted. Contact L.A. SLEEVE CO. by telephone or e-mail before sending payment to confirm current prices and shipping charges.

**CYLINDER SLEEVING, BIG BORE KITS:** Please allow two (2) weeks plus shipping time. All modifications are done to your cylinder unless otherwise specified. When sending your cylinder and parts, please remove all manifolds, studs, bolts, power valves, etc. We are not responsible for any lost parts. Package your cylinder and head upright in a sturdy box with plenty of paper and cardboard. Include your piston if we are not supplying one. Always include instructions inside the package, stating cylinder make, model and year, what work you want done, and if you want L.A. SLEEVE to provide the piston and a new gasket. Include your return address and phone number on the instruction sheet. Dealers, include a business card.

### **WE WILL NOT BEGIN ANY WORK WITHOUT WRITTEN INSTRUCTIONS.**

**LATE ORDERS:** Dealers, please allow (ten) full working days before calling to check on orders that have not arrived. Much time is wasted looking up orders that have been shipped but that you have not allowed enough time for transit. Please cooperate with us on this. Do not use toll-free numbers when checking orders, call on (562) 945-7578. **DO NOT CALL COLLECT.** During peak seasons call your orders in early to assure delivery when you need it. Ordering Wednesday afternoon and requesting air shipping service will not always get your goods to you for the race on Saturday or Sunday.

**SHIPPING:** We ship all orders U.P.S. whenever possible. Second day air (Blue Label), next day air (Red Label), and 3-Day Select (Orange) services are available in addition to regular ground service. Parcel post and priority mail shipping is available also.

**CHANGE OF ADDRESS:** Please inform us of changes to your shipping or mailing address, telephone and e-mail address. This will ensure that you continue to receive good service from L.A. SLEEVE Co., and that we can provide you with updated information and catalogs.

## Los Angeles Sleeve Co., Inc. Limited Warranty

Los Angeles Sleeve Co. warrants this product will be free from defects in material and workmanship for thirty (30) days following date of original purchase. If the product is found by LOS ANGELES SLEEVE CO. to be defective, such products will, at LOS ANGELES SLEEVE CO.'s option, be replaced or repaired at cost to LOS ANGELES SLEEVE CO. All products alleged by Purchaser to be defective must be returned to LOS ANGELES SLEEVE CO., postage prepaid, within the thirty (30) days warranty period.

### **THIS LIMITED WARRANTY DOES NOT COVER LABOR OR OTHER COSTS OR EXPENSES INCIDENTAL TO THE REPAIR AND/OR REPLACEMENT OF PRODUCTS OR PARTS.**

This limited warranty does not apply to any products which has been subject to misuse, mishandling, misapplication, neglect (including but not limited to improper maintenance), accident, improper installation, modification (including but not limited to use of unauthorized parts or attachments), or adjustment or repair performed by anyone other than LOS ANGELES SLEEVE CO.

The parties hereto expressly agree that the Purchaser's sole and exclusive remedy against LOS ANGELES SLEEVE CO. shall be for the repair or replacement of the defective product as provided in this limited warranty. This exclusive remedy shall not be deemed to have failed of its essential purpose so long as LOS ANGELES SLEEVE CO. is willing and able to repair or replace defective goods.

**THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOT EXPRESSLY SET FORTH HEREIN. ANY PRODUCT WHICH MAY BE SOLD BY LOS ANGELES SLEEVE CO. BUT WHICH IS NOT MANUFACTURED BY LOS ANGELES SLEEVE CO. IS NOT WARRANTED BY LOS ANGELES SLEEVE CO. BUT IS SOLD ONLY WITH THE WARRANTIES, IF ANY, OF**

### **THE MANUFACTURERS THEREOF.**

LOS ANGELES SLEEVE CO.'S LIABILITY (WHETHER UNDER THE THEORIES OF BREACH OF CONTRACT OR WARRANTY, NEGLIGENCE OR STRICT LIABILITY) FOR ITS PRODUCTS SHALL BE LIMITED TO REPAIRING OR REPLACING PARTS FOUND BY LOS ANGELES SLEEVE CO. TO BE DEFECTIVE, OR AT LOS ANGELES SLEEVE CO.'S OPTION, TO REFUND THE PURCHASE PRICE OF SUCH PRODUCT. IN NO EVENT SHALL LOS ANGELES SLEEVE CO. BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE PRODUCT. CONSEQUENTIAL DAMAGES SHALL INCLUDE, WITHOUT LIMITATION, LOSS OF USE, INCOME OR PROFIT, OR LOSSES SUSTAINED AS THE RESULT OF INJURY (INCLUDING DEATH) TO ANY PERSON, OR LOSS OF OR DAMAGE TO PROPERTY.

Any claim by Purchaser regarding this product shall be deemed waived by the Purchaser unless submitted to LOS ANGELES SLEEVE CO. within the earlier of (i) fifteen (15) days following the date Purchaser discovered, or by reasonable inspection should have discovered, any claimed breach of this limited warranty, or (ii) thirty (30) days following the date of original purchase. Any cause of action for breach of this limited warranty shall be brought within six months from the date the alleged breach was discovered or should have been discovered, whichever occurs first.

Some states do not allow limitations on how long an implicit warranty lasts or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



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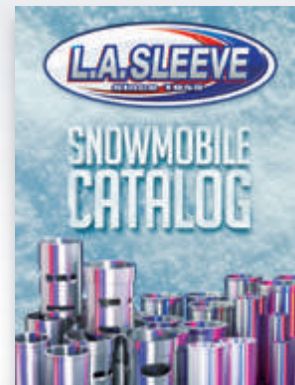
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