



2019 SNOWMOBILE CATALOG



Sleeve Installation

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

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

★ Column Code Explanations:

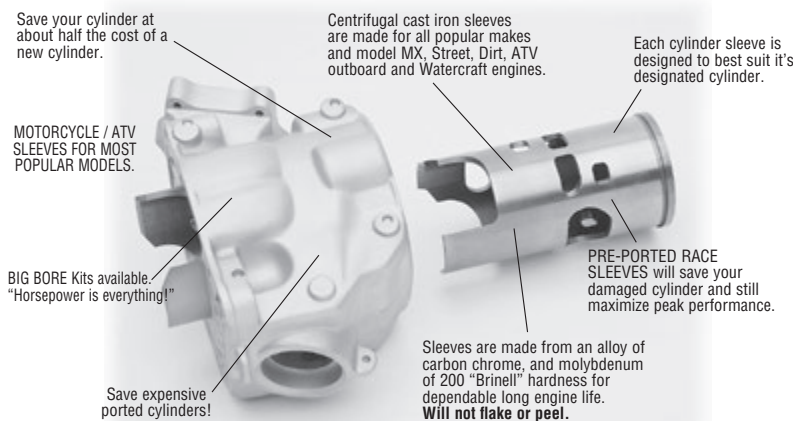
AC - Original cylinder bore is alloy-chrome plated, Nikasil, or electrofused. The cylinder must be bored to accept the new cylinder sleeve.

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.



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 not necessary. (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 two-stroke cylinders, blending or matching the aluminum cylinder to the sleeve ports is recommended for proper fuel flow.



SLEEVE					WISECO		PRO X		
					Piston	Kit	mm	Size	Piston
Model	ARCTIC CAT	cc/ Cyl. I.D.	★	(SUZUKI)					
340 Jag, Lynx, Puma, Cheetah, Bearcat, Panther (AG-34)	Fan Cooled	339cc Twin 60mm 2.362"	AC	FL-1112					
Z 370 1999-07 Z 370ES 2000-03 Z 370LX 2004-07 Panther 370 2001, 2004-08	Fan Cooled	367cc Twin 60mm 2.362"	AC	FL-1245	2454M06000	SK1386	60.00	Std.	
440 El Tigre 4000	Fan Cooled	431cc Twin 65mm 2.559"	AC	FL-1138	2300M06500		65.00	Std.	
Trail Cat 4000 1980 440 Panther (AK-44) 1980-81, 1989-02 440 Bearcat 1996-2000 440 Jag, SuperJag, AFS 1987-99 Z 440 1995-98	Fan Cooled	431cc Twin 65mm 2.559"	AC	FL-1120					
Z 440 1999-02 Z 440ES 2000-02 Z 440ESR 2003 Z 440LX 2004-06	Fan Cooled	431cc Twin 65mm 2.559"	AC	FL-1246					
El Tigre 5000 1985-88 Pantera 440 1985-88	Liquid Cooled	436cc Twin 68mm 2.677"	AC	FL-1096	2268M06800		68.00	Std.	
Pantera 440 (AJ-44) 1990-93 Prowler 440 (AJ-44) 1990-92	Liq. Cooled	436cc Twin 68mm 2.677"	AC	FL-1173	2332M06800		68.00	Std.	
Prowler 440 Special 1991	Liquid Cooled	436cc Twin 68mm 2.677"	AC	FL-1241					
Prowler 440 Special 1992-93	Liq. Cooled	436cc Twin 68mm 2.677"	AC	FL-1188					
Prowler 440 1993-94	Liquid Cooled	436cc Twin 68mm 2.677"	AC	FL-1195					
Cougar 440 (AL-44) 1994	Liquid Cooled	436cc Twin 68mm 2.677"	AC	FL-1173					
Jag 440 1996 Panther 440 1996-98	Liquid Cooled	436cc Twin 68mm 2.677"	AC	FL-1217					
ZL 440 1997-2000	Liquid Cooled	436cc Twin 68mm 2.677"	AC	FL-1217					
ZR 440 (AN-49) 1994-95	Liquid Cooled	436cc Twin 68mm 2.677"	AC	FL-1201					
ZR 440 1996-98	Liquid Cooled	438cc Twin 66.5mm 2.618"	AC	FL-1218	2390M06650	SK1260	66.50	Std.	
ZR 440 Snow-Pro 1999	Liquid Cooled	438cc Twin 66.5mm 2.618"	AC	FL-1270	2418M06650 '99-01	SK1308	66.50	Std.	
ZR 440 Snow-Pro 2000-02	Liquid Cooled	438cc Twin 66.5mm 2.618"	AC	FL-1265	2439M06650 2002	SK1331	66.50	Std.	
ZR 440 Sno Pro 2003-04	Liquid Cooled (95B1)	438cc Twin 66.5mm 2.618"	AC	FL-1287					
ZR 440 Sno Pro 2006	Liquid Cooled (95B5) Oval Exhaust	438cc Twin 66.5mm 2.618"	AC	FL-1305					
ZR 4000 LXR, RR 2015-17	Liquid Cooled	499cc Twin 71mm 2.796"	AC	FL-1272					
5000 Series 1976-77	Free Air	500cc Twin 70mm 2.755"	AC	FL-1063	2286M07000		70.00	Std.	
5000 Series 1976-78	Fan Cooled	500cc Twin 70mm 2.755"	AC	FL-1094					
5000 Series 1978-80	Free Air (6 Port)	500cc Twin 70mm 2.755"	AC	FL-1095					
Cougar 5000 1985	Fan Cooled	500cc Twin 70mm 2.755"	AC	FL-1094					
Cougar 5000 1986-90 Cheetah 5000 1986-90	Fan Cooled (6 Port)	500cc Twin 70mm 2.755"	AC	FL-1159					
Panther 5000 1986-88	Fan Cooled	500cc Twin 70mm 2.755"	AC	FL-1094					
6000 Series 440 1978-79	Liquid Cooled	436cc Twin 68mm 2.677"	AC	FL-1096	2268M06800	SK1000	68.00	Std.	
6000 Series 500 1980-81, 1984-86	Liquid Cooled	500cc Twin 70mm 2.755"	AC	FL-1105					
ZR/ZL500, ZR/ZL500 EFI 1998-00 Powder Special 500 1999-2000		497cc Twin 71mm 2.796"	AC	FL-1234	2393M07100	SK1261	71.00	Std.	01.5597.000

WISECO Piston includes rings and circlips, Kit includes precision matched and balanced pistons, gasket.



SLEEVE	WISECO®				PRO X
	Piston	Kit	mm	Size	Piston
(SUZUKI)					
FL-1247					
FL-1272	2438M07100	SK1330	71.00	Std.	
FL-1146			72.00	Std.	
FL-1168					
FL-1174					
FL-1321					
FL-1177	2338M07340	SK1101	73.40	Std.	
FL-1192	2348M07540	SK1141	75.40	Std.	01.5593.000
FL-1203					
FL-1192					
FL-1269					
FL-1212	2338M07340	SK1189	66.50	Std.	
FL-1235	2391M07800 (Not for 2000 Models)	SK1263	78.00	Std.	01.5698.000
FL-1271	2427M07800	SK1316	78.00	Std.	01.5601.000
FL-1285	2445M07380	SK1384	73.80	Std.	
FL-1319	2445M07380		73.80	Std.	
FL-1320	2464M07380		73.80	Std.	

Metric conversion: 1mm = .03937"



ONLINE ORDER ACCEPTED: www.lasleeve.com

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★ AC=Alloy-Chrome Cylinder Bore, CC=Original Barrel is Cast-Iron,
CS=Cast-In Sleeve, CI=Cast-In Sleeve Liner, RS=Replacement Sleeve



SLEEVE

WISECO

PRO X

Piston Kit mm Size Piston

Model	ARCTIC CAT	cc/ Cyl. I.D.	★	(SUZUKI)					
650 Wildcat 1988-90	Liquid Cooled	650cc Twin 78mm 3.070"	AC	FL-1160	2323M07800	SK1054	78.00	Std.	
<i>Special Heavy O.D. Sleeve</i> O.D. 3.310" Allows bore to 701cc		78mm — 81mm	AC	FL-1160H	2370M08100 (701cc, Must use "H" style sleeve)	SK1195	81.00	.120	
Wildcat, Mountain Cat 700 1991-96 (AC-70)	Liquid Cooled	700cc Twin 81mm 3.189"	AC	FL-1178	2370M08100 2370M08200	SK1195 SK1196	81.00 82.00	Std. .040	
<i>Big Bore to 790cc</i>		790cc Twin 86mm 3.138"	AC	FL-1178B	2400M08600	SK1273	86.00	.196	
F7 Firecat EFI 700 2003-06 SaberCat 700 2004-06 M7 MountinCat 700 2005-06 Crossfire 7 2006	Liquid Cooled	698cc Twin 79.7mm 3.138"	AC	FL-1273	2410M07970	SK1328	79.70	Std.	01.5703.000
ZR 700 1994-96 (AB-70)	Liquid Cooled	700cc Twin 81mm 3.189"	AC	FL-1204	2370M08100 2370M08200	SK1195 SK1196	81.00 82.00	Std. 0.40	
ZL, ZR 700 1999-2000 Powder Special 700 1999-2000	Liquid Cooled	700cc Twin 81mm 3.189"	AC	FL-1249					
ZRT 800 1995-01 (AA-80) Pantera 800 1998-99	Liquid Cooled	794cc Triple 72mm 2.835"	AC	FL-1205	2361M07200	SK1176	72.00	Std.	
ZR800, ZL800 2001-03 Mountain Cat 800 2001-04 Pantera 800 2002-04	Liquid Cooled	785cc Twin 81mm 3.189"	AC	FL-1266	2431M08100	SK1318	81.00	Std.	01.5802.000
F8, M8 800 H.O. 2007-09 Crossfire 8 2007-09 LXR, Sno Pro 2007-09	Liquid Cooled (98B0)	794cc Twin 85mm 3.346"	AC	FL-1298	2451M08500	SK1374	85.00	Std.	01.5807.000
F8, M8 H.O. 2010-13 CF8, CFR8 2010-11 LXR, Sno Pro 2010-16 XF800 2012-13	Liquid Cooled (98B4)	794cc Twin 85mm 3.346"	AC	FL-1317	2460M08500		85.00	Std.	01.5811.000
M8000 2014-17 XF8000 2014-17 ZR 8000 2014-17	Liquid Cooled (98B4)	794cc Twin 85mm 3.346"	AC	FL-1317	2460M08500		85.00	Std.	01.5811.000
M8000 2018-19 XF8000 2018-19 ZR 8000 2018-19	Liquid Cooled CYL. #1904-003	794cc Twin 85mm 3.346"	AC	FL-1323	2466M08500		85.00	Std.	
Thunder Cat 900 1993-97 (AA-90)	Liquid Cooled	895cc Triple 76.5mm 3.012"	AC	FL-1191	2349M07650	SK1143	76.50	Std.	
<i>Big Bore to 992cc</i>		992cc Triple 80.5mm 3.169"	AC	FL-1191B	2349M08050		80.50	.158	
ZR900 2003-06 Mountain Cat 900 2003-06 King Cat 900 2004-06	Liquid Cooled	862cc Twin 85mm 3.346"	AC	FL-1274	2407M08500	SK1329	85.00	Std.	01.5903.000
Thunder Cat 1000 1998-02 Thunder Cat Mountain Cat 1998-2000 Mountain Cat 1000 2001-02 Pantera 1000 2000-01	Liquid Cooled	999cc Triple 81mm 3.189"	AC	FL-1236	2349M08050	SK1265	81.00	Std.	
<i>Big Bore to 1098cc</i>		1098cc Triple	AC	FL-1236B	718M08500	SK1266	85.00	.158	
F1000, M1000 2007-11 Crossfire 1000 2007-11 LXR 1000 2007-08 Sno-Pro 1000 2008-11	Liquid Cooled	999cc Twin 90.3mm 3.555"	AC	FL-1299	2450M09030	SK1373	90.30	Std.	
ARCTIC CAT 4-STROKE									
T660 2002-07 Panther 660 2006-08 Bearcat 660 2006-08	4-Stroke Liquid Cooled	660cc Triple 68mm 2.677"	RS	FL-1280					
ZR 3000 LXR 2017-19 Bearcat 3000 2016-17 Pantera 3000 2016-19 Norseman 3000 2018-19	4-Stroke Liquid Cooled Mono-Block	700cc Twin 76.9mm 3.028"	AC	FL-1322					
ZR 7000 2015-19 XF 7000 2015-19 Bearcat 7000 2015-19 Pantera 7000 2015-19	4-Stroke Liquid Cooled Mono-Block	1049cc Triple 82mm 3.228"	AC	T-002-AC	4894M08200				
ZR 9000 2017-19 XF 9000 2017-19 M9000 2017-19	4-Stroke Liquid Cooled Mono-Block	998cc Triple 80mm 3.150"	AC	T-254-AC					
F1100 Jaguar Z1 2007-08 Bearcat Z1 2009-15 LXR, TZ1, Sno Pro 2008-14 M1100 2012-13 M9000, XF9000, ZR9000 2014-16 ZR5000 2014-17	4-Stroke Liquid Cooled	1056cc Twin 98mm 3.858"	AC	FL-1309	40017M09800		98.00	Std.	

WISECO Piston includes rings and circlips, Kit includes precision matched and balanced pistons, gasket.



SLEEVE

WISECO

PRO X

Piston

Kit

mm

Size

Piston

Model KAWASAKI (ARCTIC CAT) cc/ Cyl. I.D. ★

340/2B T-1	Fan Cooled	339cc Twin 60mm 2.362"	AC	FL-1108					
340/2A T-7	Free Air	339cc Twin 60mm 2.362"	AC	FL-1109					
400	Fan Cooled	398cc Twin 65mm 2.559"	AC	FL-1065					
400	Free Air	398cc Twin 65mm 2.559"	AC	FL-1084					
440/2A - 'Z'	Free Air	436cc Twin 68mm 2.677"	AC	FL-1066	2084M06800		68.00	Std.	
440 T-1	Fan Cooled	436cc Twin 68mm 2.677"	AC	FL-1067	2084M06800		68.00	Std.	

KAWASAKI (JOHN DEERE)

Trail Fire 440 (Non-Bridged Intake Port)	Fan Cooled	436cc Twin 68mm 2.677"	AC	FL-1067	2084M06800		68.00	Std.	
Liqui-Fire TA440 1978-80	Liquid Cooled	436cc Twin 68mm 2.677"	AC	FL-1086 NO LONGER IN PRODUCTION					
Sports Fire 1979-82 (Bridged Intake Port)	Fan Cooled	436cc Twin 68mm 2.677"	AC	FL-1116	2313M06800		68.00	Std.	

KAWASAKI

SC 340	Free Air	339cc Twin 60mm 2.362"	AC	FL-1113					
SB 340 (Bridged Intake Port)		339cc Twin 60mm 2.362"	AC	FL-1114					
Intruder 440 (Bridged Intake Port)	Fan Cooled	436cc Twin 65mm 2.559"	AC	FL-1085	2084M06800		68.00	Std.	
Invader 440	Liquid Cooled	436cc Twin 68mm 2.677"	AC	FL-1086 NO LONGER IN PRODUCTION					
Drifter 440	Fan Cooled	436cc Twin 68mm 2.677"	AC	FL-1116	2313M06800		68.00	Std.	
LTD 440 1980	Liquid Cooled (6 Port)	436cc Twin 68mm 2.677"	AC	FL-1150					
LTD 440	Liquid Cooled (8 Port)	436cc Twin 68mm 2.677"	AC	FL-1115					
Interceptor 550	Liquid Cooled (8 Port)	530cc Twin 75mm 2.952"	AC	FL-1117					

JLO (ROCKWELL)

LR 400/3, 4		398cc Twin 65mm 2.559"	RS	FL-1106 NO LONGER IN PRODUCTION					
LR 440/7, 9 1980		438cc Twin 67.5mm 2.658"	RS	FL-1107 NO LONGER IN PRODUCTION					
LR 760/2		744cc Twin 80mm 3.150"	RS	FL-1147 NO LONGER IN PRODUCTION					

POLARIS

Startrak, Starlite 244 1987-95	Fan Cooled	244cc Single 72mm 2.835"	CI	FL-1186					
340 TX 1976-79	Free Air	335cc Twin 62mm 2.441"	AC	FL-1093					
340 TXC 1980	Free Air	335cc Twin 62mm 2.441"	AC	FL-1127					
340 TXL Indy (EC-51) 1981-83	Liquid Cooled	335cc Twin 61.75mm 2.431"	AC	FL-1202					
340 Sprint (EC-34-2PM) 1985-91	Fan Cooled	339cc Twin 62mm 2.441"	CI	FL-1152	2316M06225 2316M06250 2316M06300		62.25 62.50 63.00	.010 .020 .040	
340 Classic 2003-06									
340 LX 2007-08									
340 Touring 2006-08									
Indy Sport, Sport GT 1989-90									
Indy Lite, Lite GT 1991-98									
Indy 340 1999-07									

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SLEEVE	WISECO			PROX	
	Piston	Kit	mm	Size	Piston

Model	POLARIS	cc/ Cyl. I.D.	★						
400 Indy 1984-91	Liquid Cooled	398cc Twin 65mm 2.559"	CI	FL-1143 NO LONGER IN PRODUCTION					
440 TX 1976-80		432cc Twin 67.75mm 2.667"	AC	FL-1079					
440 TXC 1981	Fan Cooled	432cc Twin 67.75mm 2.667"	CI	FL-1128					
440 Cutlass 1982-83	Fan Cooled	432cc Twin 67.75mm 2.667"	CI	FL-1137					
440 Longtrak 1983-90	Fan Cooled	432cc Twin 67.72mm 2.666"	CI	FL-1162 FL-1162H FL-1219	2343M06772	SK1201	67.72	Std.	
<i>Special Heavy O.D. Sleeve</i>									
440 Indy Sport 1991-99	Fan Cooled	432cc Twin 67.72mm 2.666"	CI	FL-1219H					
Sport SKS 1994									
Sport Touring 1995-99									
Super Sport 1996									
Trans Sport 1996-99									
Indy XCF 1997-98			CS	FL-1219H					
<i>Special Heavy O.D. Sleeve</i>									
440 Indy 1992	Liquid Cooled	432cc Twin 67.72mm 2.666"	CI	FL-1182	2343M06772 2343M06825 2343M06925	SK1123 SK1124 SK1125	67.72 68.25 69.25	Std. .021 .060	
Indy XCR 1992-94									
Indy SKS 1993-95									
Indy LC 1996-97									
440 Indy XCF 1999	Fan Cooled	438cc Twin 65mm 2.559"	CI	FL-1250					
440 Indy XCF SP 2001									
440 Indy XC, XCR (EC-45) 1995-97	Liquid Cooled	439cc Twin 68.25mm 2.687"	AC	FL-1207	2362M06825 (Not for XCR '97)	SK1178	68.25	Std.	
440 Indy XCR 1998	Liquid Cooled	438cc Twin 66mm 2.599"	AC	FL-1260 NO LONGER IN PRODUCTION					
(Early 1998 Pre-production Hi-Rev porting motor)									
440 Indy XCR 1998-99	Liquid Cooled	438cc Twin 66mm 2.599"	AC	FL-1231	2401M06600 (Not for XCR EDGE)	SK1274	66.00	Std.	
(Cylinder #3022065)									
500 Indy	Fan Cooled	488cc Twin 72mm 2.835"	CI	FL-1165	2345M07200 2345M07250 2345M07300 2345M07350 (EC45PL097) (Not for Widetrack Models)	SK1064 SK1065 SK1066 SK1067	72.00 72.50 73.00 73.50	Std. .020 .040 .060	
500, Classic 500 1989-06									
Classic Touring 1993-03									
Wide Trak 1990-93									
Wide Trak LX 1994-09									
SP, SKS 1989-92, SPX 1992									
Carb SKS 1996-97, Carb RMK 1996									
EFI 1993-97, EFI SKS 1993-96									
EFI RMK 1996, RMK 1998-99									
Super Sport 2005			CS	FL-1165H					
<i>Special Heavy O.D. Sleeve</i>									
500 Indy XC 1999-03	Liquid Cooled	500cc Twin 70.5mm 2.776"	RS	FL-1254	2406M07050 2406M07100	SK1281 SK1282	70.50 71.00	Std. .020	
XC SP 1999-07									
RMK 2000-02									
Classic 2003									
500 XC SP 2000-07	Liquid Cooled Variable Exhaust	500cc Twin 70.5mm 2.776"	AC	FL-1261					
550 Trail RMK 1999-06	Fan Cooled	544cc Twin 73mm 2.874"	CI	FL-1251	2417M07300 2417M07350 2417M07400	SK1305 SK1306 SK1307	73.00 73.50 74.00	Std. .020 .040	01.5599.000 01.5599.050 01.5599.100
550 LX 2007									
Super Sport 1999-07									
Trail Touring 2000, 2002-06									
Sport Touring/ES 2000-04									
Classic 2002-06			CS	FL-1251H					
PROX Fan 550 2004									
<i>Special Heavy O.D. Sleeve Removes Cast-In Sleeve</i>									
550 2007-2019	Fan Cooled	544cc Twin 73mm 2.874"	AC	FL-1300	2417M07300	SK1305	73.00	Std.	01.5599.000
Indy 2014-19	3089934 & 3090388								
Indy Adventure 2014-19									
IQ Shift 2009-13									
LX 2008									
LXT 2014-17									
Trail RMK 2007-09									
Touring DLX 2007-09									
SuperSport 2008									
Voyageur 2015-19									
Widetrak LX 2016-19									

WISECO Piston includes rings and circlips, Kit includes precision matched and balanced pistons, gasket.



SLEEVE	WISECO®				PRO X	
	Piston	Kit	mm	Size	Piston	
FL-1190	2347M06400	SK1145	64.00	Std.		
FL-1190H	2347M06450	SK1146	64.50	.020		
FL-1129						
FL-1129H						
FL-1206	2358M06500 2358M06550 2358M06600 2358M06650	SK1167 SK1168 SK1169 SK1278	65.00 65.50 66.00 66.50	Std. .020 .040 .060		
FL-1220 NO LONGER IN PRODUCTION						
FL-1213	2365M06250		62.50	Std.		
FL-1213B						
FL-1232	2426M07450	SK1314	74.50	Std.		
FL-1262	2437M07725	SK1321	77.25	Std.	01.5603.000	
FL-1289	2437M07725 (00-07 Carb) 2462M07725 (07-14 CFI)		77.25	Std.	01.5603.000	
FL-1324						
FL-1325	2462M07725		77.25	Std.	01.5607.000	
FL-1326	2462M07725		77.25	Std.	01.5607.000	
FL-1327	2462M07725		77.25	Std.	01.5607.000	
FL-1327						

Metric conversion: 1mm = .03937"



SLEEVE				WISECO				PRO X	
				Piston	Kit	mm	Size	Piston	
Model	POLARIS	cc/ Cyl. I.D.	★						
650 Indy 1988-91 Liquid Cooled (Non-skirted Cylinder)		648cc Triple 67.75mm 2.666"	CI	FL-1161	2346M06775 2346M06800 2346M06825 2346M06875 2346M06925	SK1089 SK1090 SK1091 SK1092	67.75 68.00 68.25 68.75 69.25 69.75	Std. .010 .020 .040 .060 .080	8010 Pro-X 8011 Pro-X 8012 Pro-X 8014 Pro-X 8016 Pro-X 8018 Pro-X
	Special Heavy O.D. Sleeve (Allows Bore to 73mm)	67.75mm-73mm	CS	FL-1161H					
650 Indy 1991-93 (Extended Skirt Cylinder Same Ports as FL-1161)	Liquid Cooled	648cc Triple 67.75mm 2.666"	CI	FL-1199	2346M06775 2346M06800 2346M06825 2346M06875 2346M06925	SK1131 SK1132 SK1133 SK1134	67.75 68.00 68.25 68.75 69.25	Std. .010 .020 .040 .060	8010 Pro-X 8011 Pro-X 8012 Pro-X 8014 Pro-X 8016 Pro-X
650 Indy RXL, SKS EFI 1991-97 Liquid Cooled		648cc Triple 67.75mm 2.666"	CS	FL-1180	2346M06775 2346M06800 2346M06825 2346M06875 2346M06925	SK1089 SK1090 SK1092	67.75 68.00 68.25 68.75 69.25	Std. .010 .020 .040 .060	8010 Pro-X 8011 Pro-X 8012 Pro-X 8014 Pro-X 8016 Pro-X
680 Ultra 1996-98 SP, SKS, RMK, SPX, SPX SE, Touring	Liquid Cooled	679cc Triple 66.6mm 2.622"	AC	FL-1211	2366M06660	SK1191	66.60	Std.	
700 Indy XCR 1998	Liquid Cooled	679cc Triple 66.6mm 2.622"	AC	FL-1211					
700 Indy XCR 1999 (EC70PL)	Liquid Cooled Variable Exhaust	700cc Triple 67.5mm 2.657"	AC	FL-1252	2409M06760	SK1288	67.60	Std.	
700 Indy XC, RMK 1997-05 SKS 1997, 1999-03 XC SP 1999-05 Classic 2000-04, PROX 2003-04 Edge 2004 Switchback 2004	Liquid Cooled	700cc Twin 81mm 3.188"	AC	FL-1221	2399M08100	SK1272	81.00	Std.	01.5799.000
700 HO, IQ 2007-10 Dragon 2007-10 RMK 2007-10	Liberty / Liquid Cooled	700cc Twin 81mm 3.188"	AC	FL-1301	2457M08100	SK1385	81.00	Std.	
750 Indy Storm 1993	Liquid Cooled	744cc Triple 69.72mm 2.745"	CI	FL-1189					
800 Indy Storm 1994-95	Liquid Cooled	794cc Triple 72mm 2.835"	CI	FL-1200	2355M07200	SK1159	72.00	Std.	
800 Indy Storm, SKS, RMK 1996-98 Liquid Cooled		794cc Triple 72mm 2.835"	AC	FL-1215	2355M07300	SK1161	73.00	.040	
Repair Sleeve for Broken Cylinder Skirt Big Bore to 861cc		861cc Triple 75mm 2.953"	AC	FL-1215C FL-1215B	2355M07500		75.00	.118	
800 Indy XCR 1999	Liquid Cooled Variable Exhaust	794cc Triple 72mm 2.835"	AC	FL-1253	2404M07200	SK1296	72.00	Std.	
800 Indy XCR 2000-03	Liquid Cooled Variable Exhaust	794cc Triple 72mm 2.835"	AC	FL-1278	2404M07200	SK1296	72.00	Std.	
800 Indy RMK 2000-05 XC SP 2001-05 LE 2001, SKS 2003, PROX 2003 Edge 2004, Switchback 2004-05, Classic 2004, Touring 2005	Liberty Liquid Cooled	794cc Triple 85mm 3.346"	AC	FL-1263	2428M08500	SK1315	85.00	Std.	01.5801.000
800 Indy RMK 2000-05 XC SP 2001-05 Classic, Touring 2004-05 Switchback 2004-05	Power Valve Liberty Liquid Cooled	794cc Twin 85mm 3.346"	AC	FL-1311	2428M08500	SK1315	85.00	Std.	01.5801.000
800 CFI 2008-11 800 IQ 2008-10 RMK 800 2008-11 Rush 2011 Switchback 2009-11 Dragon SP 2009	Liberty Liquid Cooled Mono-Block	795cc Twin 85mm 3.346"	AC	FL-1308	2456M08500 (08-09) 2459M08500 (10-12)	SK1382 (08-09) SK1396 (10-12)	85.00 85.00	Std. Std.	01.5809.000 (08-09) 01.5810.000 (10-12)
800 Cleanfire SDI 2012-16 Indy SP 2015-16 Pro RMK 2012-15 RMK Assault 2012-15 Rush Pro R 2012-14 Switchback Assault 2012-15 Switchback Pro R 2012-13	Liberty Liquid Cooled Mono-Block	795cc Twin 85mm 3.346"	AC	FL-1316	2459M08500 (13-16)	SK1396 (10-12) SK1398 (13-16)	85.00 85.00	Std. Std.	01.5810.000

WISECO Piston includes rings and circlips, Kit includes precision matched and balanced pistons, gasket.



SLEEVE	WISECO				PRO X
	Piston	Kit	mm	Size	Piston

Model	POLARIS	cc/ Cyl. I.D.	★						
800 Cleanfire H.O. 2015-19 Indy XC 2019 Pro RMK 2016-19 RMK Assault 2016-19 Rush Pro S 2015-19 Rush Pro-X 2015-19 Rush XCR 2017-19 SKS 2016-19 Switchback Adventure 2016-19 Switchback Assault 2016-19 Switchback Pro S 2015-19 Switchback Pro-X 2015-19 Titan 2018-19	Liberty Liquid Cooled 3022554 & 3022828 3S EV Power Valve	795cc Twin 85mm 3.346"	AC	FL-1318	2459M08500 (13-16)	SK1326 (13-16)	85.00	Std.	01.5810.000 (13-16)
850 Patriot 2019 Indy XC 2019 Pro RMK 2019 Rush Pro S 2019 Rush XCR 2019 SKS 2019 Switchback Assault 2019 Switchback Pro S 2019 Switchback XCR 2019	Liberty Liquid Cooled Mono-Block 3023433 3S E-VES Power Valve	850cc Twin 85mm 3.346"	AC	FL-1328					
900 Fusion 2005-06 900 RMK 2005-06	Liberty Liquid Cooled	866cc Twin 83mm 3.267"	AC	FL-1288	2447M08300	SK1359	83.00	Std.	
POLARIS 4-STROKE									
750 FST IQ 2006-14 Switchback Classic, Cruiser LX, Touring Turbo Dragon, Widetrack IQ	4-Stroke Liquid Cooled	750cc Twin 85mm 3.346"	AC	FL-1295	40021M08500	SK1393	85.00	Std.	
785 Frontier 2003-05	4-Stroke Liquid Cooled	784cc Twin 80mm 3.150"	AC	FL-1282					
SKI-DOO									
247 Elan 1979-96	Fan Cooled	250cc Single 69.5mm 2.736"	RS	FL-1163					
253 Citation LS, LSE, E 1985-91 Tundra, LT, LTS 1985-92	Fan Cooled	248cc Single 72mm 2.835"	CI	FL-1240 (Straight sleeve, no flange)	2373M07200 2373M07250 2373M07300		72.00 72.50 73.00	Std. .020 .040	01.5595.000 01.5595.050 01.5595.100
294 SS Elan		294cc Twin 57mm 2.244"	RS	FL-1134 NO LONGER IN PRODUCTION					
277 Tundra, LT, II, II LT 1993-96	Fan Cooled	269cc Single 72mm 2.835"	RS	FL-1136					
277 Tundra II LT 1997-98 280F, 300F, 2002-09 Tundra 1999, 2002-05, Tundra R 1998-2000	Fan Cooled	269cc Single 72mm 2.835"	RS	FL-1229 (O-Ring groove in flange)					
340 TNT RV Blizzard 1972-75		338cc Twin 63mm 2.480"	RS	FL-1055 NO LONGER IN PRODUCTION					
340 1973-75	Free Air	339cc Twin 59.5mm 2.342"	RS	FL-1057 NO LONGER IN PRODUCTION					
340 1973-78	Fan Cooled	339cc Twin 59.5mm 2.342"	RS	FL-1103 NO LONGER IN PRODUCTION					
377 Citation 4500 1981-83 Mirage II 1981-83, Mirage III 1985 Nordik 1981-83 Skandik 1982-86, 1995-2000 Skandik R 1984-87, Skandik II, IIR 1992-94 Safari 1984-88, Safari Scout 1989-90 Safari Saga 1989, Safari L 1991-94 Safari LE 1991-92, Safari Deluxe 1993-94 Scout 1991-92, Touring E 1995-2000 Touring/Cargo 2001-03 Touring LE 1995, Touring E LT 1996-97 Formula S 1995-2000 Formula Deluxe 380 1998-01	Fan Cooled	368cc Twin 62mm 2.441"	RS	FL-1118 FL-1242 (O-Ring groove, in flange)	2308M06200 2308M06225 2308M06250 2308M06300		62.00 62.25 62.50 63.00	Std. .010 .020 .040	
Grand Touring 2001-2003 MXZ380 2001-06, Legend 2002-04 GSX 2005-06, GTX 2005-06	Fan Cooled	368cc Twin 62mm 2.441"	RS	FL-1297 (O-Ring groove in flange)					

Metric conversion: 1mm = .03937"



SLEEVE	WISECO®				PRO X	
	Piston	Kit	mm	Size	Piston	
(ROTAX)						
FL-1049 2.742" O.D.						
FL-1051						
FL-1061						
FL-1062						
FL-1101 2.900" O.D.	2374M06750 2374M06800		67.50 68.00	Std. .020		
FL-1102 2.919" O.D						
FL-1124 NO LONGER IN PRODUCTION						
FL-1154						
FL-1104 NO LONGER IN PRODUCTION						
FL-1283						
FL-1208	2375M06750 2375M06800	SK1205	67.50 68.00	Std. .020		
FL-1125	2312M06950 2312M06975	SK1027	69.50 69.75	Std. .010		
FL-1149	2312M07000 2312M07050		70.00 70.50	.020 .040		
FL-1119	2373M07200 2373M07250 2373M07300 2373M07350		72.00 72.50 73.00 73.50	Std. .020 .040 .060	01.5595.000 01.5595.050 01.5595.100 01.5595.150	
FL-1216 (O-Ring groove in flange)						
FL-1164						
FL-1224 (Rotary valve motor)	2381M06950 2381M07000 2381M07050 (Fits "494" Rotary Valve Motor only)	SK1243 SK1244 SK1245	69.50 70.00 70.50	Std. .020 .040	01.5598.000 01.5598.050 01.5598.100	
FL-1286 (Reed motor)	2436M06950 2436M07000 2436M07050 (Fits "493" Rotary Valve Motor only)	SK1322 SK1323 SK1324	69.50 70.00 70.50	Std. .020 .040	01.5400.000 01.5400.050 01.5400.100	

WISECO Piston includes rings and circlips, Kit includes precision matched and balanced pistons, gasket.



SLEEVE	WISECO®				PRO X
	Piston	Kit	mm	Size	Piston
(ROTAX)					
FL-1126	2373M07200	SK1211	72.00	Std.	01.5595.000
	2373M07250	SK1212	72.50	.020	01.5595.050
	2373M07300	SK1213	73.00	.040	01.5595.100
	2373M07350	SK1214	73.50	.060	01.5595.150
FL-1171 (O.A.L. 5.060")					
FL-1172 (O.A.L. 5.140")					
NO LONGER IN PRODUCTION					
FL-1275	2452M07600	SK1375	76.00	Std.	01.5503.000
	2452M07650 (03-12)	SK1376	76.50	.020	(03-12)
FL-1166 (O.A.L. 5.140")					
NO LONGER IN PRODUCTION					
FL-1184					
NO LONGER IN PRODUCTION					
FL-1230					
FL-1166 (O.A.L. 5.140")					
NO LONGER IN PRODUCTION					
FL-1223					
FL-1276	2444M07200	SK1338	72.00	Std.	01.5600.000
	(Piston skirt coated)				
FL-1306	2444M07200	SK1441	72.00	Std.	01.5600.000
FL-1312	2458M07200		72.00	Std.	
FL-1313			72.00	Std.	
FL-1330			72.30	Std.	
FL-1214	2377M06450	SK1224	64.50	Std.	

Metric conversion: 1mm = .03937"



SLEEVE	WISECO®				PRO X
	Piston	Kit	mm	Size	Piston
(ROTAX)					
FL-1255	2411M07600	SK1292	76.00	Std.	01.5699.000
	2411M07650	SK1303	76.50	.020	01.5699.050
	2411M07700	SK1304	77.00	.040	01.5699.100
FL-1185					
NO LONGER IN PRODUCTION					
FL-1194	2379M07800	SK1236	78.00	Std.	
	2379M07850	SK1237	78.50	.020	
	2379M07900	SK1238	79.00	.040	
FL-1194B					
FL-1256	2433M07800	SK1311	78.00	Std.	
	2433M07850	SK1312	78.50	.020	
	2433M07900	SK1313	79.00	.040	
FL-1268	2433M07800	SK1311	78.00	Std.	
	2433M07850	SK1312	78.50	.020	
	2433M07900	SK1313	79.00	.040	
FL-1264	2416M07800	SK1302	78.00	Std.	01.5700.000
	2416M07900	SK1356	79.00	.040	
FL-1225	2382M06975	SK1246	69.75	Std.	
FL-1059					
NO LONGER IN PRODUCTION					
FL-1193	2434M06950	SK1239	69.50	Std.	
	2434M07000	SK1240	70.00	.020	
	2434M07100	SK1199	71.00	.060	
FL-1193B	2414M07450	SK1297	74.50	.196	
FL-1222	2434M07050	SK1249	70.50	Std.	
FL-1222B	2414M07450	SK1295	74.50	.157	
FL-1267	2430M08200	SK1319	82.00	Std.	01.5800.000
	2430M08300	SK1347	83.00	.040	

WISECO Piston includes rings and circlips, Kit includes precision matched and balanced pistons, gasket.



SLEEVE	WISECO				PRO X
	Piston	Kit	mm	Size	Piston

Model	SKI-DOO	cc/ Cyl. I.D.	★	(ROTAX)					
800R P-TEK 2007-2016 MX Z X 800R 2007-12 GSX LTD 2008 Renegade 2010-11 Summit Everest 2007-11 Summit Sport 2012-16	R.A.V.E. Liquid Cooled Mono-Block	799cc Twin 82mm 3.228" (Reed Valve)	AC	FL-1302	2453M08200	SK1378	82.00	Std.	01.5808.000
800R E-TEC 2011-2019 MX Z X-RS 800R 2011-17 MX Z X TNT 800R 2011-17 Expedition Xtreme 2017-19 GSX SE 2012-15 Renegade X 2012-18 Summit SP, X 2011-17	R.A.V.E. Liquid Cooled Mono-Block	799cc Twin 82mm 3.228"	AC	FL-1314	2453M08200	SK1405	82.00	Std.	01.5808.000
850 E-TEC 2017-2019 Backcountry 2019 Freeride 2018-19 MXZ 2017-19 Renegade 2017-19 Summit 2017-19	eR.A.V.E. Liquid Cooled Mono-Block 420413304	849cc Twin 82mm 3.228"	AC	FL-1329					
MachZ Adrenaline 1000 2005-07 Summit Highmark 1000 2005-08 MXZ Renegade 1000 2006-07	R.A.V.E. Liquid Cooled Mono-Block	998cc Twin 88mm 3.464"	AC	FL-1291	2446M08800	SK1343	88.00	Std.	

SKI-DOO FOUR-STROKE

600 ACE 2011-2019 Expedition 2011-19 Grand Touring 2011-19 Renegade Sport 2011-19 Scandic SWT 2011-19 Tundra LT 2011-19	4-Stroke Liquid Cooled Mono-Block	600cc Twin 74mm 2.913"	AC	FL-1315					
900 ACE 2014-2019 Expedition Sport 2014-19 Grand Touring 2014-19 Renegade 2014-19 Skandic SWT 2015-19	4-Stroke Liquid Cooled Mono-Block	899cc Triple 74mm 2.913"	AC	FL-5809					
4-TEK V-800 2007-12 Expedition Legend Skandic Tundra Skandic SWT	4-Stroke Liquid Cooled	V-Twin 800cc 91mm 3.583"	AC	FL-1310					
4-TEK V-1000 2004-06 Expedition TUV '05-06 Legend 2004-05	4-Stroke Liquid Cooled	V-Twin 100mm 3.937"	AC	FL-1284					
4-TEK 1200 2009-2019 Expedition 2010-19 Grand Touring LE, SE 2010-18 GSX LTD, LE, SE 2009-15 GTX LE, SE 2009-11 MX Z X, TNT, 2009-18 Renegade 2010-17 Scandic Tundra 2010	4-Stroke Liquid Cooled	1170cc Triple 91mm 3.583"	AC	FL-1307	40040M09100		91.00	Std.	
Elite Sport 1500 2004-05	4-Stroke Liquid Cooled	1494cc Triple 100mm 3.937"	AC	FL-1292					

YAMAHA

BR-250 Bravo, LT 1982-2000	Fan Cooled	246cc Single 70mm 2.755"	CI	LA-1170 Straight sleeve, no flange					
Inviter 300 1986-90	Liquid Cooled	293cc Single 73mm 2.874"	CS	FL-1155					
340 SRX	Liquid Cooled	337cc Twin 60mm 2.362"	AC	FL-1075					
ET-340 1976-88 Enticer 340 1978-87		338cc Twin 60mm 2.362"	CI	FL-1167					
340 Ovation 1989-99	Fan Cooled	337cc Twin 60mm 2.362"	CI	FL-1167					
ET-400, ET-410, Enticer LTR (#85T)	Fan Cooled	408cc Twin 66mm 2.598"	CS	FL-1175					

Metric conversion: 1mm = .03937"



SLEEVE	WISECO				PRO X	
	Piston	Kit	mm	Size	Piston	

Model	YAMAHA	cc/ Cyl. I.D.	★						
433 SB Reed Valve		433cc Twin 68mm 2.677"	CS	FL-1076 NO LONGER IN PRODUCTION					
433 XB Piston Port		433cc Twin 68mm 2.677"	CS	FL-1077 NO LONGER IN PRODUCTION					
433 XA, GPA Piston Port		433cc Twin 68mm 2.677"	CS	FL-1078 NO LONGER IN PRODUCTION					
433 XP, GPX		433cc Twin 68mm 2.677"	AC	FL-1141 NO LONGER IN PRODUCTION					
440 SRX 1977-80 Liquid Cooled		439cc Twin 68.5mm 2.697"	AC	FL-1097 NO LONGER IN PRODUCTION	2282M06850		68.50	Std.	
440 SRX 1981 Liquid Cooled		437cc Twin 66mm 2.598"	AC	FL-1121 NO LONGER IN PRODUCTION					
Exciter 440 1975-81		433cc Twin 68mm 2.677"	CS	FL-1157 NO LONGER IN PRODUCTION	2284M06800		68.00	Std.	
440 SS 1979-83 Fan Cooled		437cc Twin 66mm 2.598"	CI	FL-1131 NO LONGER IN PRODUCTION	2309M06600				
Phazer PZ-480, VT-480 1984-98 Venture 1991-98 Mountain Lite 1997-99	Fan Cooled (#8VO)	485cc Twin 72mm 2.835"	CS	FL-1156	2310M07200 2310M07225 2310M07250 2310M07300 2310M07350	SK1035 SK1036 SK1037 SK1052	72.00 72.25 72.50 73.00 73.50	Std. .010 .020 .040 .060	
Phazer 500 1999-01 Phazer 500 Deluxe 2001 Venture XL 1999-2000 Mountain Lite 2000-01	Fan Cooled	485cc Twin 72mm 2.835"	CS	FL-1259	2310M07200 2310M07225 2310M07250 2310M07300	SK1298 SK1299 SK1290	72.00 72.25 72.50 73.00	Std. .010 .020 .040	
V-Max 500 1994-96 Liquid Cooled		493cc Twin 68mm 2.677"	AC	FL-1197	2356M06800	SK1163	68.00	Std.	7024DA
V-Max 500, XT, XTC, SX, Deluxe 1997-01 Venture 500 1997-01 SX500R 2001	Liquid Cooled (#8CJ)	494cc Twin 68mm 2.677"	AC	FL-1228					
Big Bore to 600cc		598cc Twin 74.8mm 2.945"	AC	FL-1228B					
530 SRV 1980-84 SR-5, XL-5, XL-V 1980-89 SRV-540 1988-97	Fan Cooled	535cc Twin 73mm 2.874"	CS	FL-1132	2305M07300 2305M07350 2305M07400 2305M07450	SK1044 SK1045 SK1046 SK1047	73.00 73.50 74.00 74.50	Std. .020 .040 .060	
540 V-Max 1983-90 Liquid Cooled		535cc Twin 73mm 2.874"	AC	FL-1133					
VK-540 1988-05 2017-19	Fan Cooled (#83R)	535cc Twin 73mm 2.874"	CI	FL-1237	2305M07300 2305M07325 2305M07350 2305M07400 2305M07450	SK1044 SK1045 SK1046 SK1047	73.00 73.25 73.50 74.00 74.50	Std. .010 .020 .040 .060	
Exciter 569 1987-91 Liquid Cooled (#82M)		569cc Twin 73mm 2.874"	CS	FL-1158	2335M07300 2335M07350 2335M07400	SK1094 SK1095 SK1096	73.00 73.50 74.00	Std. .020 .040	
Exciter II 1991-93 Liquid Cooled (#88R)		569cc Twin 73mm 2.874"	AC	FL-1179	2335M07300 2335M07350 2335M07400	SK1094 SK1095 SK1096	73.00 73.50 74.00	Std. .020 .040	
Exciter 570 SX 1993 Liquid Cooled (#8AY)		569cc Twin 73mm 2.874"	AC	FL-1196	2335M07300 2335M07350 2335M07400	SK1094 SK1095 SK1096	73.00 73.50 74.00	Std. .020 .040	
V-Max 600 1994-96 Liquid Cooled (#8CA)		598cc Twin 74.8mm 2.945"	AC	FL-1198	2388M07480	SK1257	74.80	Std.	
V-Max 600 1999 V-Max 600 SX, XT, XTC Deluxe 1997-98 Venture 600 1997-98 Mountain Max 600 1997-99	Liquid Cooled (#8CR)	598cc Twin 74.8mm 2.945"	AC	FL-1227	2388M07480	SK1257	74.80	Std.	
SRX-600 1998-99 Variable Exhaust	Liquid Cooled	598cc Triple 64mm 2.519"	AC	FL-1238 NO LONGER IN PRODUCTION					

WISECO Piston includes rings and circlips, Kit includes precision matched and balanced pistons, gasket.



SLEEVE	WISECO				PRO X
	Piston	Kit	mm	Size	Piston

Model	YAMAHA	cc/ Cyl. I.D.	★						
V-Max 600 SX 1999 Liquid Cooled V-Max 600 Deluxe 1999-01 V-Max 600 ER 2002-03 Venture 600 1999-06 Mountain Max 600, SX 600R 2000-03 SX Venom 2004-06		593cc Triple 65mm 2.559"	AC	FL-1258	2440M06500	SK1332	65.00	Std.	
V-Max 700, XT, XTC, SX Liquid Cooled V-Max Deluxe 1997-01 (#8CH) V-Max 700 ER 2002 Mountain Max 700 1997-04 Venture 700 1998-03, SX 700R 2000-01 <i>Big Bore to 748cc</i>		698cc Triple 70.5mm 2.776"	AC	FL-1226	2385M07050	SK1251	70.50	Std.	
		748cc Triple 73mm 2.874"	AC	FL-1226B	9385P7290		73.00	.098	
SRX-700 1998-02 Liquid Cooled Variable Exhaust (#8DN)		696cc Triple 69mm 2.716"	AC	FL-1239	2397M06900	SK1270	69.00	Std.	01.2798.000
SX Viper 700 2002-05 Liquid Cooled Venture 700 2004 Variable Exhaust (#8EK)		696cc Triple 69mm 2.716"	AC	FL-1296	2397M06900		69.00	Std.	01.2798.000
V-Max 4 1992-94 Liquid Cooled (#89A)		743cc 4-Cylinder 63mm 2.480"	AC	FL-1183					
				NO LONGER IN PRODUCTION					
V-Max 800 1995-97 Liquid Cooled		791cc 4-Cylinder 65mm 2.559"	AC	FL-1210					
				NO LONGER IN PRODUCTION					

YAMAHA FOUR-STROKE

Genesis 80 FI 4-Stroke RS Vector 2005-09 Liquid Cooled Phazer 500 2007-18 Venture MP 2013-18 Venture Lite 2007-09 VK Professional 2006-07		499cc Twin 77mm 3.031"	AC	FL-1303	12.5:1 Compression 4988M07700	SK1389	77.00	Std.	
Genesis 120FI 4-Stroke Nytro 2006-07 Liquid Cooled RS Rage 2005-07 RS Vector Mountain 2005-07 RS Venture 2005-09 VK Pro 2006-15		973cc Triple 79mm 3.110"	AC	FL-1290	12.5:1 Compression 4893M07900 9.5:1 Compression 4894M07900	SK1365 SK1367	79.00 79.00	Std. Std.	
Genesis 130FI 4-Stroke FX Nytro 2008-14 Liquid Cooled RS Vector 2012-18 RS Venture 2012-18 SR Viper 2014-19 VK Professional II 2016-18		1049cc Triple 82mm 3.228"	AC	FL-1304 (Left) LA-1304 (Center, Right)	4893M08200	SK1366	82.00	Std.	
RX-1 2003-07 4-Stroke Straight Sleeve Liquid Cooled <i>Big Bore to 1080cc</i>		998cc 4-Cylinder 74mm 2.913" 1080cc 4-Cylinder 77mm 3.031"	AC	YA-5501 YA-5501E (End Sleeves, 2 required) YA-5501C (Center Sleeves, 2 required)	4707M07400	SK1326	74.00	Std.	
Genesis 150FI 4-Stroke APEX 2006-18 Liquid Cooled ATTAK 2006-07		998cc 4-Cylinder 74mm 2.913"	AC	YA-5501	10:1 Compression 4708M07400 Stock Comp. 40053M07400		74.00 74.00	Std. Std.	
Genesis 998 Turbo 4-Stroke Sidewinder 2017-19 Liquid Cooled		998cc Triple 80mm 3.150"	AC	YA-5810					

Metric conversion: 1mm = .03937"



PRO-X CONNECTING ROD KITS



SKI-DOO (ROTAX)

Part No.	Model	Year
02514	377 Twin	1980-89
02515	377 Twin	1990-99
	440F MXZ Twin	1997-99
02906	462, 467 Twin	1994-95
	Formula Z, MX ('93-95)	
	Formula Z, Mach ('93-95)	
	MXZ, XTCR ('93-95)	
	470 Twin	1994
02522	521, 534, 537 Twin	1982-90
	9700 ('83-84)	
	Formula Plus, LT ('85-90)	
	Safari Grand Lux ('85-86)	
	582, 583 Twin	1989-99
	Mach I ('89-91)	
	Formula ('92-99)	
	Formula Z, STX II ('94-99)	
	Summit ('94-98)	
	MXZ ('96-98)	
	Grand Touring 580 ('95-99)	
	617 Twin	1994-95
02905	599 Triple PTO Side	1997-99
02906	599 Triple MAG/Center	1997-99
	Formula III 600	
02663	779 Triple PTO Side	1994-96
02664	779 Triple MAG/Center	1994-96
02663	809 Triple PTO Side	1997-03
02664	809 Triple MAG/Center	1997-03



CRANKSHAFT BEARINGS

L.A. SLEEVE CO. supplies genuine O.E.M. quality replacement crankshaft bearings. Manufactured in Japan using all O.E.M. specifications.

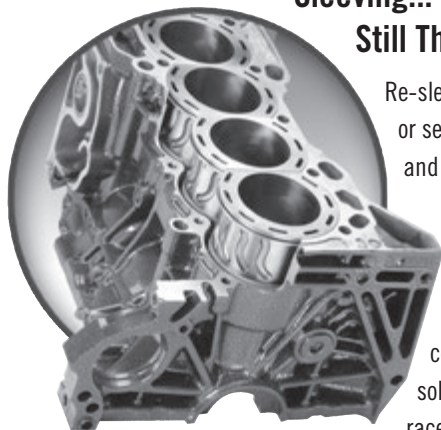
CRANKSHAFT MAIN BEARINGS DIMENSIONS CHART

SIZE	DESCRIPTION	PART NO.	SIZE	DESCRIPTION	PART NO.	SIZE	DESCRIPTION	PART NO.
17 x 47 x 14		6303C3	30 x 62 x 16	8 Bearings	6206RI	35 x 72 x 17	Grvd, W/Ring C4 fit	6207NRC4
20 x 47 x 14		6204C3	30 x 62 x 16	9 Bearings	6206C3	35 x 72 x 17	4mm Pinhole	6207YR
20 x 47 x 14	Grooved, With Ring	6204NR	30 x 62 x 16	Grooved	6206N	35 x 72 x 17	Pinned	6207JRC4
20 x 52 x 15		6304C3	30 x 62 x 16	Grooved, With Ring	6206NR	35 x 72 x 17	Pinned, 3mm	83A844A
22 x 50 x 14		6222C4	30 x 62 x 16	Grvd, W/Ring, C4 Fit	6206NRC4	35 x 72 x 17	Pinned,	
22 x 56 x 16		6322C4	30 x 62 x 16	Roller Bearing	NJ206	3mm Grooved W/Ring	6207NLT	
22 x 56 x 16		6322X	30 x 64 x 16	O.D. Step	830046	35 x 72 x 27	Pinned, 3mm	5207-1LT
25 x 52 x 15		6205C3	30 x 72 x 16	O.D. Step	SX06C62	35 x 80 x 18		6307X
25 x 52 x 15	Grooved	6205N	30 x 72 x 18		6306RI	35 x 80 x 18.5		6307A
25 x 52 x 15	Grooved, With Ring	6205NR	30 x 72 x 19		6306C3	35 x 80 x 21		6307C3
25 x 55 x 15		83A915	30 x 72 x 19	Grooved	6306N	35 x 80 x 21	Grooved	6307N
25 x 62 x 16		6305RI	30 x 72 x 19	Grooved, With Ring	6306NR	35 x 80 x 21	Grooved, 5mm Pinhole	83B727
25 x 62 x 17		6305C3	30 x 72 x 19	O.D. Step	SX06C42	35 x 80 x 21	Grooved, With Ring	6307NR
25 x 62 x 17	Grooved	6305N	30 x 76 x 17.5		692C3	35 x 80 x 21	Pinned	6307JRC4
25 x 62 x 17	Grooved, With Ring	6305NR	32 x 65 x 17		6232C3	35 x 80 x 21	Pinned, 3mm	83A948
25 x 62 x 17	Grooved, Pinned	83406	32 x 72 x 30	Phenolic, 4mm Pinhole	83B207	39 x 58 x 16	Needle Bearings	8ENK16
25 x 62 x 17	Pinned	83464A	32 x 76 x 17.5		SC093CS	39 x 65 x 18	Needle Bearings	2MEB671
28 x 58 x 16		6228C3	35 x 72 x 17		6207C3	40 x 76 x 17.5		DG407618
28 x 68 x 18		6328C3	35 x 72 x 17	C4 Fit	6207C4	40 x 80 x 18	Grooved, With Ring	6208NC4
28 x 68 x 18	Shield	6328LBA	35 x 72 x 17	Grooved	6207N	40 x 90 x 23		6308C3
28 x 72 x 18		B32872	35 X 72 X 17	Grooved, C4 Fit	6207NC4	40 x 90 x 20		
30 x 62 x 16	Grooved, C4 Fit	6206NC4	35 x 72 x 17	Grooved, With Ring	6207NR			



ENGINE & SHOP SERVICES

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. Re-sleeved cylinders will never flake or peel.

CYLINDER REPAIR

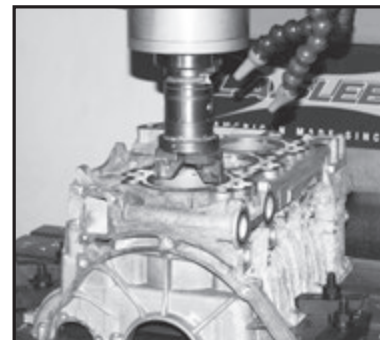
Why would you spend several hundred dollars to buy a new cylinder when we can repair it for a fraction of the cost?

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

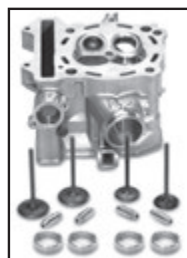
We provide complete crank rebuilding to you. No need to buy an OEM crankshaft, when we can install a new aftermarket connecting rod kit. Our service comes complete with pressing crank apart, inspecting web journals, reinstalling new aftermarket rod kit and truing crank to exact tolerances.



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.



CYLINDER DEPARTMENT BASIC SERVICE FEES

Rates shown are for labor only, parts are additional.

RETAIL PRICE

Sleeve Installation - two stroke single cylinder	\$170.00
<i>(Includes installing sleeve, matching ports, chamfering port edges, boring and honing to size piston, milling top deck)</i>	
Sleeve Installation - four stroke single cylinder	\$152.00
<i>(Includes installing sleeve, boring and honing to size piston, milling top deck)</i>	
Sleeve Installation - Big Bore two stroke sleeve	\$185.00
Sleeve Installation - Big Bore four stroke sleeve	\$170.00
Cylinder Re-plating	begins @ \$265.00
Head Mod - two stroke	\$100.00
Boring / Honing - single	\$75.00
Porting / Polish - two stroke single	\$350.00
Porting/Polish Cylinder with Head Mod 2-stroke	\$450.00
Head Flow Port & Polish - four stroke 2-valve	begins @ \$355.00
4-valve	begins @ \$500.00
5-valve	begins @ \$560.00
Valve Job - 2 valve	begins @ \$127.50
Valve Job - 4 valve	begins @ \$180.00
Valve Job - 5 valve	begins @ \$210.00
Valve Guide Replacement	without guide \$34.00
Valve Seat Replacement	without seat \$72.00
Race Performance Valve Seats	Call for Quote
Valve and Spring Kits	Call for Quote
Crankshaft Rebuilding - Single	\$90.00
Twin	\$188.00
Triple	\$270.00
4-Stroke Crank with oilers	\$100.00

Additional Charges for:

Stud Removal	\$28.00
Power Valve - removal, cleanse, re-install.	\$65.00

SPECIAL applications have additional charges and will be quoted before any work begins.



TERMS, CONDITIONS AND 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.

REQUEST THESE CATALOGS



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CATALOG**



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ATV/UTV CATALOG



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