

AMERICAN

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American Lock Series A700

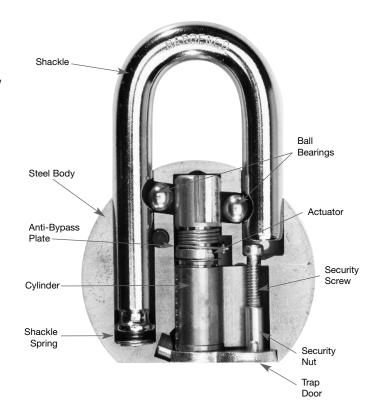


Disassembly

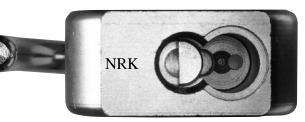
- Unlock shackle
- Use a Phillips screwdriver to remove security screw
- Remove security nut and trap door
- Remove cylinder and anti-bypass plate
- Place lock on flat surface and close shackle
- Actuator and ball bearings should fall out, if not, see page 20
- Remove shackle retaining screw, (APKG4765010)
- Remove shackle and spring

Assembly

- Insert shackle spring and shackle
- Insert and tighten shackle retaining screw
- Insert ball bearings
- Insert actuator as shown
- Check operation with follower tool
- Insert cylinder and rotate clockwise
- Insert trap door
- Insert security nut and screw
- Tighten security screw
- Check operation







Model	Shackle			Shackle	Actı	iator	Ball
mouor	Diameter	Length	Part No.	Spring	NKR	NRK	Bearings
A700, A700W0, A706	7/16"	1-1/16"	APKG1582940	APKG1612010	APKG2029010	APKG2084090	APKG1807020
A702, A702W0 (zinc)	7/16"	1-1/16"	APKG1582950	APKG1612010	APKG2029010	APKG2084090	APKG1807020
A701, A701W0, A707	7/16"	2"	APKG1582960	APKG1612010	APKG2029010	APKG2084090	APKG1807020
A703, A703W0 (zinc)	7/16"	2"	APKG1582970	APKG1612010	APKG2029010	APKG2084090	APKG1807020

For Quantity Content and Ordering Information See the Price Book For Trap Door Part Numbers, See Page 32

American Lock Series A748

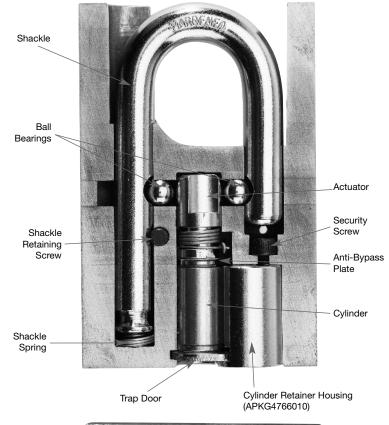
Disassembly

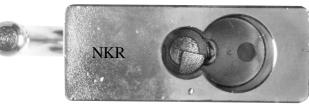
Disassembly

- Unlock shackle
- Use a 5/32" hex wrench to remove security screw
- Remove cylinder retaining housing
- Remove trap door, cylinder and anti-bypass plate
- Place lock on flat surface and close shackle
- Actuator and ball bearings should fall out, if not, see page 20
- Remove 3/32" hex shackle retaining screw
- Remove shackle and spring

Assembly

- Insert shackle spring and shackle
- Insert and tighten shackle retaining screw
- Insert ball bearings
- Insert actuator as shown
- Check operation with follower tool
- Insert cylinder and rotate clockwise
- Insert trap door
- Insert cylinder retainer housing
- Insert security screw
- Tighten security screw
- Check operation







Model	Shackle			Зпаскіе		ator	Ball
	Diameter	Length	Part No.	Spring	NKR NRK		Bearings
A748	7/16"	1-1/16"	APKG1583290	APKG1612010	APKG1188300	APKG0000274	APKG1807020

For Quantity Content and Ordering Information See the Price Book

For Trap Door Part Numbers, see page 32

American Lock Series A780 & A790



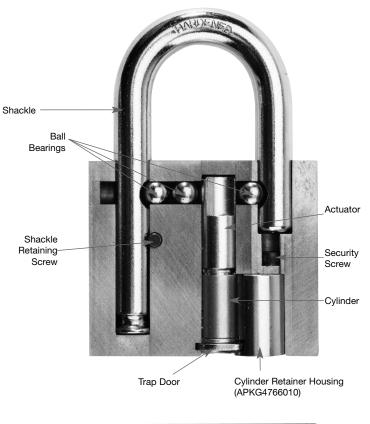
Disassembly

- Unlock shackle
- Use a 5/32" hex wrench to remove security screw
- Relock shackle: remove key
- Remove cylinder retaining housing
- Remove trap door and cylinder
- Place lock on flat surface and close shackle
- Actuator and ball bearings should fall out, if not, see page 20
- Remove shackle 1/8" hex retaining screw
- Remove shackle

Assembly

- Insert shackle
- Insert and tighten shackle retaining screw
- Insert ball bearings
- Insert actuator as shown
- Check operation with follower tool
- Insert cylinder and rotate clockwise
- Insert trap door
- Insert cylinder retainer housing
- Insert security screw
- Unlock shackle
- Tighten security screw
- Check operation

For cylinder retainer housing use part number (A3031010).





Model		Shackle		Shackle	Actı	lator	Ball
	Diameter	eter Length Part No.	NKR	NRK	Bearings		
A780	7/16"	1-1/4"	APKG0000273	APKG4765010	N/A	APKG0000274	APKG1807020
A790	1/2"	1-1/2"	APKG1583280	APKG4765010	N/A	APKG0000275	APKG1809010

For Quantity Content and Ordering Information See the Price Book

For Trap Door Part Numbers, see page 32

American Lock Series A1000, A5000 & A6000

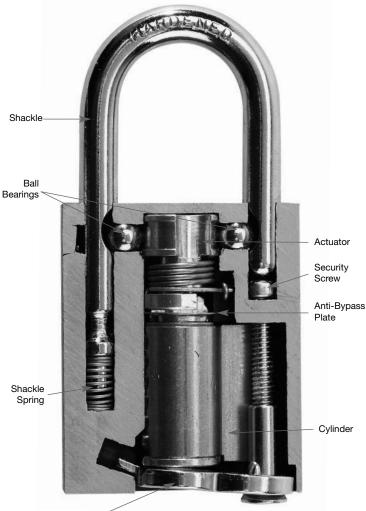
Disassembly

- Unlock shackle
- Use a Phillips screwdriver to remove security screw
- Remove security nut and trap door
- Remove cylinder and anti-bypass plate
- Place lock on flat surface and close shackle
- Actuator and ball bearings should fall out, if not, see page 20
- Remove shackle and spring

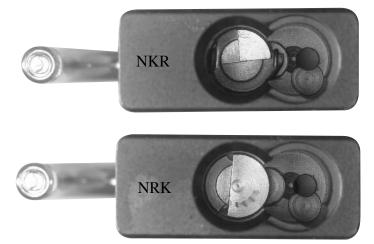
Assembly

- Insert shackle spring and shackle
- Insert ball bearings
- Insert actuator as shown
- Check operation with follower tool
- Insert cylinder and rotate clockwise
- Insert trap door
- Insert security nut and screw
- Tighten security screw
- Check operation

(see page 7 for A1000, A5000 and A6000 Specifications Chart)



Trap Door



American Lock Stainless Steel Series A5400 & A6400

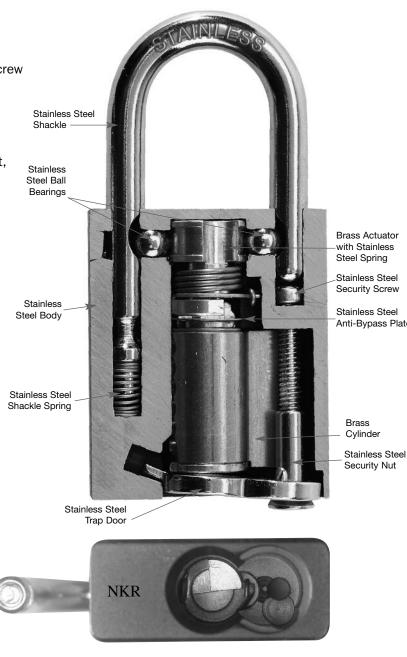
Disassembly

- Unlock shackle
- · Use a Phillips screwdriver to remove security screw
- · Remove security nut and trap door
- Remove cylinder and anti-bypass plate
- Place lock on flat surface and close shackle
- Actuator and ball bearings should fall out, if not, see page 20
- · Remove shackle and spring

Assembly

- Insert shackle spring and shackle
- Insert ball bearings
- Insert actuator as shown
- Check operation with follower tool
- Insert cylinder and rotate clockwise
- Insert trap door
- Insert security nut and screw
- Tighten security screw
- · Check operation

(see page 7 for A5400 & A6400 Specifications Chart)





Stainless Steel Anti-Bypass Plate

Security Nut

6

American Lock Series A1000, A5000 & A6000 (Continued)

A1105 A1105 1/4" 1/2 PAPG185200 PAPG188270 PAPG2081160 PAPG186000 A1106 A1106 A1106 PAPG188270 PAPG2081160 PAPG188000 PAPG188270 PAPG2081160 PAPG1809010 A1205 A1206 PAPG188270 PAPG2081160 PAPG1818270 PAPG2081160 PAPG1818270 PAPG2081160 PAPG1818270 PAPG2081160 PAPG1818270 PAPG2081160 PAPG1818270 PAPG2081160 PAPG2081160 PAPG2081160 PAPG2081		SHACKLE			SHACKLE	ACTU	ATOR	BALL
A1108 A1107 A1107 <th< th=""><th></th><th></th><th>LENGTH</th><th></th><th></th><th></th><th></th><th></th></th<>			LENGTH					
A1107, A1107W0, A1167 1/4* 3* APKG1582210 APKG1582210 APKG1582010 APKG1580011 A12055, A12058W0, A12658 5/16* 1/4* APKG1580010 APKG1580010 APKG1580010 APKG1580010 A12055, A12058W0, A12658 5/16* 1/4* APKG058015 APKG1580010 APKG1580010 APKG1580010 A12068, A12068W0, A1266 5/16* 2* APKG05914 APKG180010 APKG1800110 APKG1800110 A12068, A12068W0, A1266 5/16* 2* APKG05914 APKG180010 APKG1800110 APKG1800110 A1207, A12070, A1267S 5/16* 3* APKG059434 APKG1003103 APKG1800110 APKG1800110 A1208, A1209, A12090, A1209 5/16* 3* APKG0010434 APKG1003103 APKG1800110 APKG1800110 A1208, A1209, A12	· · · · · · · · · · · · · · · · · · ·	/	_		1			
A1205, A1205W0, A1265 5/16" 1/16" APRC1802010 APRC1802010 APRC1802010 A12058, A1205SW0, A1266S 5/16" 1/4" APRC006435 APRC021031 APRC1818270 APRC2081160 APRC180010 A12058, A1205SW0, A1266S 5/16" 2" APRC006435 APRC1080100 APRC1800110 APRC1800110 A12058, A1205SW0, A1266S 5/16" 2" APRC00574 APRC108010 APRC1800110 APRC1800110 A12058, A1205SW0, A1266S 5/16" 2" APRC00674 APRC108010 APRC1800110 APRC1800110 A12058, A1205SW0, A1265S 5/16" 3" APRC180010 APRC1800110 APRC2081160 APRC1800110 APRC18								
A1208B, A1205BW0, A1265B 5/16" 3/4" APKG1580010 APKG180010 A1205S, A1205SW0, A1265B 5/16" 2" APKG1680010 APKG180010 APKG180010 A120BS, A1206BW0, A1266 5/16" 2" APKG00543 APKG021031 APKG18005110 APKG1800510 A120BS, A1206BW0, A1266 5/16" 2" APKG005434 APKG021031 APKG181051100 APKG1800510 A120FS, A1207SW0, A1267S 5/16" 3" APKG005434 APKG021031 APKG181051100 APKG1800510 A120FS, A1207SW0, A1267S 5/16" 3" APKG005434 APKG021031 APKG18105110 APKG1800510 A120SS, A1209SW0, A1265S 5/16" 5" APKG0056760 APKG181010 APKG18005110 APKG1800510 A130S, A1305W0, A1365 3/8" 1/12" APKG0056760 APKG181010 APKG18005110 APKG18005110 APKG18005110 APKG18005110 APKG18005110 APKG18005110 APKG18005110 APKG18005110 AFKG18005110 AFKG1800510 AFKG1800510 AFKG1800510 AFKG1800510 AFKG1800510 AFKG1800510			-					
A12058, A1205SW0, A1266SS 5/16" 11/2" APRC000E3425 APRC0010031 APRC1188270 APRC3001100 APRC30011100								
A1206, A1206W0, A1266 5/16" 2" APKG1582290 APKG158270 APKG2081100 APKG158270 APKG2081100 APKG18080010 APKG18080010 APKG18080010 APKG18080010 APKG18080010 APKG18080010 APKG1808000 APKG1808000 APKG1808000 APKG2081100		-1						
A12068, A12068W0, A1266 5/16" 2" PMCG006794 PMCG100010 PMCG188270 PMCG0081010 PMCG188270 PMCG0081010 PMCG188270 PMCG0081100 PMCG188270 PMCG008120 PMCG081270 PMCG181270 PMCG081270								
Al206SS, AL206SSW, AL266SS, 5/16" 2* APKG0063436 APKG188270 APKG188270 APKG2081160 APKG188070 APKG2081160 APKG188070 <td></td> <td>· · ·</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		· · ·						
A1207,A1207W0,A1267 5/16" 3" APKGGB06010 APKG168270 PKG2081100 APKG2081001 A1207SA,L207SW0,A12785 5/16" 5" APKG0000954 PKG1006010 AFKG188270 PKG2081100 APKG208100 A1209SA,L302SW0,A12985 5/16" 5" APKG0006954 PKG1001001 AFKG188270 PKG2081100 APKG1880010 A1300SA,L305W0,A1365 3/8" 1-1/8" PKG0069432 PKG101010 PKG188270 PKG2081100 PKG2081100 PKG2081100 PKG2081100 PKG188270 PKG2081100			_					
AL207S.X.4.1207SSW.0.4.1267SS. 5/16" 3" APKG200031 APKG188270 APKG2081160 APKG188270 APKG2081160 APKG188270 APKG2081160 APKG188270 APKG2081160 APKG188670 APKG2081160 APKG188270 APKG2081160 APKG188170 APKG2081160 APKG188070 APKG2081160 APKG188070								
A1208,A1209W0,A1269 5/16" 5" APKG00009543 APKG180010 APKG180210 APKG18021								
A1209SS, A1203SW0, A1260S 5/16" 5" APKG10005433 APKG2011001 APKG1188270 APKG2081160 APKG1080010 A1305S, A1305KW, A1365B 3/8" 1-1/8" APKG1055120 APKG1188270 APKG2081160 APKG108010 A1305S, A1305SW, A1365B 3/8" 1-1/8" APKG058422 APKG050022 APKG1188270 APKG2081160 APKG180010 A1305S, A1305SW, A1366S 3/8" 2" APKG068433 APKG050022 APKG2081180 APKG180010 A1305S, A1307SW, A1367S 3/8" 3" APKG1805100 APKG18050023 APKG188270 APKG2081160 APKG180010 A1307, A1307WG, A1367S 3/8" 3" APKG182960 APKG1810101 APKG2081160 APKG180010 A1307, A1307WG, A1367S 3/8" 3" APKG182960 APKG1810101 APKG18021160 APKG180210 APKG1802010 APKG180210 APKG18020								
A1305, A1305W0, A1365 3/8" 1-1/8" APKG160100 PARG188270 APKG218120 APKG2081100 APKG180010 A13058, A1305SW0, A1365S 3/8" 1-1/8" APKG0065423 APKG1805100 APKG2081100 APKG2081100 APKG2081100 APKG2081100 APKG2081100 APKG2081100 APKG2081100 APKG180070 A13058, A1307SW0, A1367S 3/8" 2" APKG1851500 APKG18051001 APKG1806100 APKG1806100 APKG2081160 APKG1806100 A1307, A1307SW0, A1367S 3/8" 3" APKG1898100 APKG1806100 APKG18	· · · · · · · · · · · · · · · · · · ·							
A1305B, A1305BW0, A1365B 3/8" 1-1/8" APKG056740 APKG180210 APKG180210 APKG180210 A1305S, A1305SW0, A1366B 3/8" 2" APKG068432 APKG050023 APKG118270 APKC2081160 APKG180610 A1305S, A1305SW0, A1366B 3/8" 2" APKG068433 APKG050023 APKG188270 APKC2081160 APKG180610 A1307SS, A1307SW0, A1367 3/8" 3" APKG068434 APKG1800102 APKG1802010 APKG180610 APKG180610 <t< td=""><td>· · · · · · · · · · · · · · · · · · ·</td><td>· · ·</td><td></td><td></td><td>1</td><td></td><td></td><td></td></t<>	· · · · · · · · · · · · · · · · · · ·	· · ·			1			
Al305S, Al305SW0, Al365S 3/8" 11/8" APKG050022 APKG118270 APKG2081160 APKG1180010 Al306, Al306SW0, Al366S 3/8" 2" APKG005433 APKG050022 APKG118270 APKG2081160 APKG1180010 Al307, SL00W0, Al367S 3/8" 3" APKG01611010 APKG118270 APKG2081160 APKG180010 Al307, SL01W0, Al307 3/8" 3" APKG108270 APKG18270 APKG2081160 APKG180010 Al5101, AL510W0, AG100 1/4" 1.1/2" APKG188270 APKG1188270 APKG188270 APKG2081160 APKG1800010 AS200, AS200W0, A6200 5,16" 1.1/8" APKG188270 APKG1188270 APKG1188270 APKG1188270 APKG1188270 APKG2081160 AFKG11880010 AS201, AS201W0, A6201 5,16" 2" APKG006543 APKG0210031 APKG1188270 APKG2081160 AFKG1188001 AS201, AS201W0, A6201 5,16" 2" APKG006543 APKG0210031 APKG1188270 APKG2081160 AFKG188001 AS201S, AS201SW0, A6205S 5,16" 3" APK	· · · · · · · · · · · · · · · · · · ·							
A1306.A1306W0.A1366 3/8" 2" APKG151101 APKG118270 APKG2081100 APKG180010 A1305S.A1307SM0.A1367S 3/8" 3" APKG1610101 APKG1188270 APKG2081160 APKG180010 A1307.A1307W0.A1367S 3/8" 3" APKG1613010 APKG1188270 APKG2081160 APKG180010 A5100.A510W0.A6101 1/4" 1" APKG182200 APKG1613010 APKG1188270 APKG2081160 APKG180010 A5102.A510W0.A6101 1/4" 1'/2" APKG182204 APKG1613010 APKG1188270 APKG2081160 APKG1800010 A5200.A5200W0.A6200 5/16" 1'/8" APKG18021001 APKG1188270 APKG2081160 APKG1800010 A5201.A5201W0.A6201 5/16" 2" APKG18020103 APKG1188270 APKG2081160 APKG1800010 A5201.A5201W0.A6202 5/16" 2" APKG1600101 APKG1188270 APKG2081160 APKG1800010 A5202.A5202W0.A6202 5/16" 3" APKG1600101 APKG1188270 APKG2081160 APKG180010 A5203.A5205W0.A6205 <	A1305SS, A1305SSW0, A1365SS		1-1/8"	APKG0065432	APKG0500023	APKG1188270	APKG2081160	APKG1806010
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AT307SS, AT307SSW0, AT367SS 3/8" 3/8" APKG0081344 APKG000023 APKG128270 APKG2081160 APKG1800010 A5100, A5101W0, A6101 1/4" 1" APKG153210 APKG1613010 APKG18270 APKG2081160 APKG1806010 A5101, A5101W0, A6102 1/4" 3" APKG153210 APKG1613010 APKG18270 APKG2081160 APKG1806010 A5200, A5200W0, A6200S 5/16" 1-1/8" APKG1082100 APKG18270 APKG2081160 APKG1806010 A5201, A5201W0, A6201 5/16" 2" APKG108010 APKG18270 APKG2081160 APKG1806010 A5201, A5202W0, A6202 5/16" 3" APKG0085436 APKG108010 APKG188270 APKG2081160 APKG1806010 A5202SX0, A6202W0, A6202 5/16" 3" APKG0065436 APKG1806101 APKG188270 APKC2081160 APKG1806010 A5205, A5205SW0, A6205S 5/16" 3" APKG0060543 APKG18070 APKG1806010 AS4C081160 APKG1806010 A5205, S5205SW0, A6205S 5/16" 3" APKG0060543 APKG	A1306SS, A1306SSWO, A1366SS	3/8"		APKG0065433	APKG0500023	APKG1188270	APKG2081160	APKG1806010
A5100,A5100W,A6100 1/4" 11/2" APKG182090 APKG1813010 APKG2081160 APKG2081160 APKG180010 A5101,A5101WO,A6102 1/4" 3" APKG1583210 APKG1613010 APKG18270 APKG2081160 APKG1806010 A52005,A5200WO,A6200SS 5/16" 1-1/8" APKG1582240 APKG1806010 APKG18270 APKG2081160 APKG1806010 A52005,A5200SSWO,A6200SS 5/16" 1-1/8" APKG1802301 APKG18270 APKG2081160 APKG1806010 A52015,A5201SSWO,A6202SS 5/16" 2" APKG1806010 APKG18270 APKG2081160 APKG1806010 A52025,A5202SWO,A6202SS 5/16" 3" APKG1806173 APKG020131 APKG18270 APKC2081160 APKG1806010 A5205,A520SWO,A6202SS 5/16" 5" APKG0065437 APKG120031 APKG1818270 APKC2081160 APKG1806010 A5205,A520SWO,A620SS 5/16" 5" APKG0065432 APKG1610101 APKG18270 APKC2081160 APKG1806010 A5205,A520SWO,A620SS 3/8" 1-1/8" APKG19602023 APK								
AB101 AB101 1/4" 1/4" 1/4" APRG1893100 APRG1818270 APRG2081100 APRG180010 AS102, A5102W0, A6102 1/4" 3" APRG188210 APRG188270 APRG2081160 APRG1806010 AS200, A5200W0, A6200 5/16" 1-1/8" APRG1802100 APRG2081160 APRG2081160 APRG2081160 APRG2081160 APRG2081160 APRG1806010 AS201, AS201W0, A6201 5/16" 2" APRG180200 APRG1802100 APRG2081160 APRG2081160 APRG2081160 APRG1806010 AS201, SS202W0, A6202 5/16" 3" APRG0000543 APRG2010031 APRG2081160 APRG1806010 AS202, SS202W0, A6205 5/16" 3" APRG0005438 APRG210031 APRG2081160 APRG1806010 AS203, SS20W0, A6205S 5/16" 5" APRG0005438 APRG210331 APRG2188270 APRG2081160 APRG1806010 AS204, SS20W0, A6205S 5/16" 5" APRG005438 APRG210331 APRG3188270 APRG2081160 APRG2801160 APRG2801160 APRG1806010 AS20, AS20W0, A62055					1			
AB102_A5102_M0_A6102 1/4" 3" APRG183210 APRG183210 APRG183210 APRG188270 APRG2081160 APRG180610 A5200_A5200W0_A6200S 5/16" 1-1/8" APRG186200 APRG188270 APRG2081160 APRG2081160 APRG180610 A5201_SS0_A6201SS 5/16" 2" APRG0065435 APRG0188270 APRG2081160 APRG2081160 APRG2081160 APRG180610 A5201_SS0_A6201SS 5/16" 2" APRG0065436 APRG0188270 APRG2081160 APRG2081160 APRG180610 A5202_SS0_A6202SSW0_A620S 5/16" 3" APRG0065432 APRG0188270 APRG2081160 APRG180610 A5205_SA520SW0_A620S 5/16" 5" APRG0065432 APRG0188270 APRG2081160 APRG1806010 A5206_SS_A520SW0_A620S 5/16" 5" APRG0056433 APRG210031 APRG1188270 APRG2081160 APRG1806010 A520_SS_A520SW0_A620S 3/8" 1-1/8" APRG0056433 APRG0188270 APRG2081160 APRG1806010 A520_SS_A520SW0_A620SS 3/8" 1-1/8" APRG188101		/	_					
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A5401, A5401WO, A6401 5/16" 2" APKG0110033 APKG1606010 APKG1188270 APKG2081160 APKG1806010 A5460, A5460WO, A6460 3/8" 1-1/8" APKG0110029 APKG1611010 APKG1188270 APKG2081160 APKG1806010								
A5460, A5460WO, A6460 3/8" 1-1/8" APKG0110029 APKG1611010 APKG1188270 APKG2081160 APKG1806010		· · · · · · · · · · · · · · · · · · ·	<i></i>					
A 2401, A 2401WU, A 2401 3/8" 2" A 24011UU 30 A 240111010 A 2401188270 A 2402081160 A 24 66010	A5461, A5461WO, A6461	3/8"	2"	APKG0110030	APKG1611010	APKG1188270	APKG2081160	APKG1806010

For Quantity Content and Ordering Information, See the Price Book For Trap Door Part Numbers, see page 32

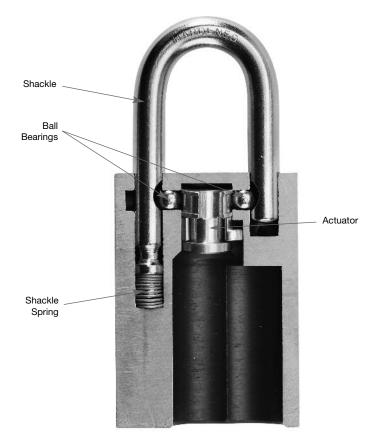
American Lock Series A1405 (for Yale LFIC 1220)

Disassembly

- Unlock shackle
- Use control key to remove LFIC
- Remove driver
- Place lock on flat surface and close shackle
- Actuator and ball bearings should fall out, if not, see page 20
- Remove shackle and spring

Assembly

- Insert shackle spring and shackle
- Insert ball bearings
- Insert actuator as shown
- Check operation with follower tool
- Insert driver
- Insert LFIC with control key
- Check operation





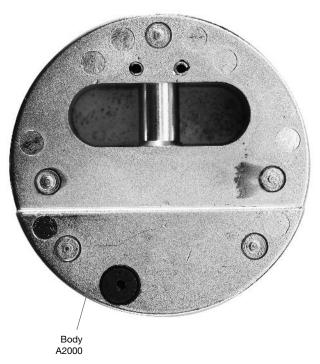
Model	Shackle			Shackle	Actı	ıator	Ball
	Diameter	Length	Part No.	Spring	NKR	NRK	Bearings
A1405	5/16"	1-1/8"	APKG1582240	APKG1606010	APKG1188270	APKG2081160	APKG1806010
A1406	5/16"	2"	APKG1582290	APKG1606010	APKG1188270	APKG2081160	APKG1806010
A1407	5/16"	3"	APKG1582310	APKG1606010	APKG1188270	APKG2081160	APKG1806010
A1409	5/16"	5"	APKG0000954	APKG1606010	APKG1188270	APKG2081160	APKG1806010

For Quantity Content and Ordering Information, See the Price Book

American Lock Series A2000 & A2010







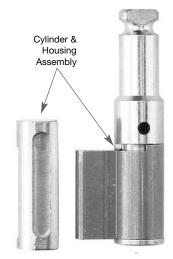
Disassembly

- Remove 3/32" hex retaining screw
- Remove cylinder assembly
- Remove roll pin
- Rekey as required

Assembly

- Insert roll pin
- Insert cylinder assembly and lock into place
- Replace retaining screw

Part number	Description
APT2001	6 pin cylinder and shackle assembly
APT2001U	Uncombinated 6 pin cylinder and shackle assembly
APKG0000220	Retaining screw
APKG0000431	A2000 and A2000WO cylinder housing
APKG3023010	A2010 and A2010WO cylinder housing



American Lock Series A2500

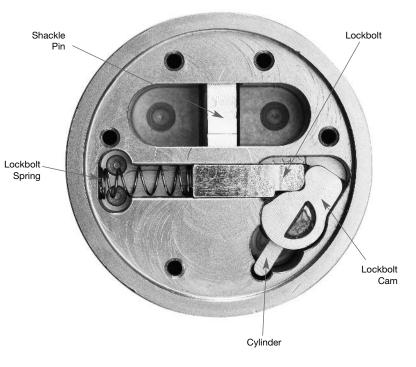
Disassembly

- Remove 3/32" hex cover plate screws and cover plate
- Remove lockbolt spring
- Remove cam
- Remove cylinder assembly and sleeve
- Remove lockbolt
- Remove shackle pin and spring

Assembly

- Insert shackle pin and spring
- Insert lockbolt
- Insert cylinder assembly and sleeve
- Insert cam
- Insert lockbolt spring
- Replace cover plate
- Replace and tighten cover plate screws

Part number	Description
APTC12S	5 pin cylinder assembly with stainless steel pins
APTC14S	6 pin cylinder assembly with stainless steel pins
APKG0001583	Lockbolt cam
APKG0001584	Lockbolt
APKG0001585	Shackle pin
APKG0001586	Hardened cylinder cover
APKG0001587	Cylinder sleeve
APKG0001588	Cover plate
APKG0001589	Lockbolt spring
APKG0001590	Shackle spring
APKG0001591	Cover plate screws



Series A3100, A3200, A3500 for SFIC

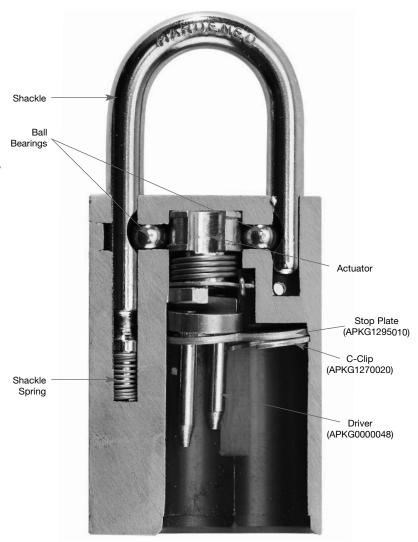


Disassembly

- Unlock shackle
- Use control key to remove SFIC
- Remove C clip and stop plate
- Remove driver
- Place lock on flat surface and close shackle
- Actuator and ball bearings should fall out, if not, see page 20
- Remove shackle and spring

Assembly

- Insert shackle spring and shackle
- Insert ball bearings
- Insert actuator as shown
- Insert driver, stop plate, (with 'T' up), and C clip
- Check operation with follower tool
- Insert SFIC with control key
- Check operation



Model		Shackle			Actı	ıator	Ball
mouor	Diameter	Length	Part No.	Spring	NKR	NRK	Bearings
3105	1/4"	1"	APKG1582980	APKG1613010	APKG1188270	APKG2081160	APKG1806010
3106	1/4"	1-1/2"	APKG1583180	APKG1613010	APKG1188270	APKG2081160	APKG1806010
3107	1/4"	3"	APKG1583210	APKG1613010	APKG1188270	APKG2081160	APKG1806010
3260, 3570	3/8"	1-1/8"	APKG1581550	APKG1601010	APKG1188270	APKG2081160	APKG1806010
3261, 3571	3/8"	2"	APKG1581570	APKG1601010	APKG1188270	APKG2081160	APKG1806010
3262, 3572	3/8"	3"	APKG1581590	APKG1601010	APKG1188270	APKG2081160	APKG1806010
3200, 3560	5/16"	1-1/8"	APKG1582240	APKG1606010	APKG1188270	APKG2081160	APKG1806010
3201, 3561	5/16"	2"	APKG1582290	APKG1601010	APKG1188270	APKG2081160	APKG1806010
3202, 3562	5/16"	3"	APKG1582310	APKG1606010	APKG1188270	APKG2081160	APKG1806010
3205, 3565	5/16"	5"	APKG0000954	APKG1606010	APKG1188270	APKG2081160	APKG1806010

Stop Plate APKG2036010, 'C' Clip (APKG1270020)

For Quantity Content and Ordering Information, See the Price Book

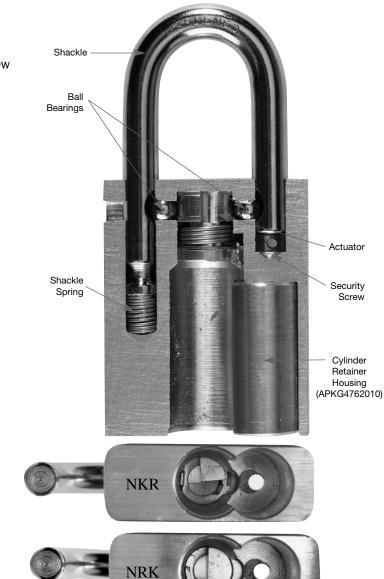
American Lock Series A3600 and A3700

Disassembly

- Unlock shackle
- Use a Phillips screwdriver to remove security screw
- Remove KEY ADVANTAGE cylinder or cylinder and housing
- Remove driver
- Place lock on flat surface and close shackle
- Actuator and ball bearings should fall out, if not, see page 20
- Remove shackle and spring

Assembly

- Insert shackle spring and shackle
- Insert ball bearings
- Insert actuator as shown
- Check operation with follower tool
- Install driver on cylinder
- Insert KEY ADVANTAGE cylinder or cylinder and housing
- Insert security screw
- Tighten security screw
- Check operation



Model		Shackle		Shackle	Actu	ator	Poll Pooringo	Cylinder
Model	Diameter	Length	Part No.	Spring	NKR	NRK	Ball Bearings	Housing
A3600	5/16"	1-1/8"	APKG1582240	APKG1606010	APKG1188280	A36DLRET	APKG1806010	APKG3013010
A3601	5/16"	2"	APKG1582290	APKG1606010	APKG1188280	A36DLRET	APKG1806010	APKG3013010
A3602	5/16"	3"	APKG1582310	APKG1606010	APKG1188280	A36DLRET	APKG1806010	APKG3013010
A3605	5/16"	5"	APKG0000954	APKG1606010	APKG1188280	A36DLRET	APKG1806010	APKG3013010
A3700	3/8"	1-1/8"	APKG1581550	APKG1611010	APKG1188280	A36DLRET	APKG1806010	APKG3013010
A3701	3/8"	2"	APKG1581570	APKG1611010	APKG1188280	A36DLRET	APKG1806010	APKG3013010
A3702	3/8"	3"	APKG1581590	APKG1611010	APKG1188280	A36DLRET	APKG1806010	APKG3013010

For Quantity Content and Ordering Information, See the Price Book

For Driver Part Numbers, See Page 23

For KEY ADVANTAGE Cylinder Use A, K, S or Y as a Suffix to Indicate Keyway.

For Trap Door Part Numbers, see page 32

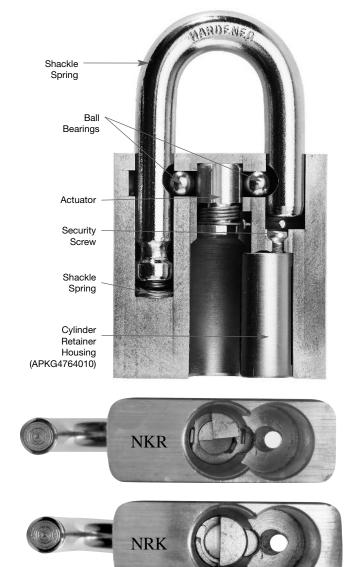
American Lock Series A3800



- Unlock shackle
- Use a 1/8" hex wrench to remove security screw
- Remove cylinder and housing
- Remove driver
- Place lock on flat surface and close shackle
- Actuator and ball bearings should fall out, if not, see page 20
- Remove shackle and spring

Assembly

- Insert shackle spring and shackle
- Insert ball bearings
- Insert actuator as shown
- Check operation with follower tool
- Install driver on cylinder
- Insert cylinder and housing
- Insert security screw
- Tighten security screw
- Check operation



Model		Shackle		Shackle	Actu	ator	Pall Poarings	Cylinder
Model	Diameter	Length	Part No.	Spring	NKR	NRK	Ball Bearings	Housing
A3800	7/16"	1-1/8"	APKG1582910	APKG1612010	APKG1188290	A38DLRET	APKG1807020	APKG3014020
A3801	7/16"	2"	APKG1582920	APKG1612010	APKG1188290	A38DLRET	APKG1807020	APKG3014020

For Quantity Content and Ordering Information, See the Price Book

For Driver Part Numbers See Page 23

For KEY ADVANTAGE Cylinder Use A, K, S or Y as a Suffix to Indicate Keyway

For Trap Door Part Numbers, see page 32

American Lock Series A3900 for Schlage LFIC

Disassembly

- Unlock shackle
- Use control key to remove LFIC
- Remove driver retainer and driver
- Place lock on flat surface and close shackle
- Actuator and ball bearings should fall out, if not, see page 20
- Remove shackle and spring

Assembly

- Insert shackle spring and shackle
- Insert ball bearings
- Insert actuator as shown
- Check operation with follower tool
- Insert driver and driver retainer
- Insert LFIC with control key
- Check operation





Model		Shackle		Shackle	Actı	iator	Ball	
	Diameter	Length	h Part No. Spring		NKR	NRK	Bearings	
A3900S, A3900SW0	3/8"	1-1/8"	APKG1581550	APKG1611010	APKG1188280	APK62081160	APKG1806010	
A3901S, A3901SW0	3/8"	2"	APKG1581570	APKG1611010	APKG1188280	APK62081160	APKG1806010	
A3902S, A3902SW0	3/8"	3"	APKG1581590	APKG1611010	APKG1188280	APK62081160	APKG1806010	

For Quantity Content and Ordering Information, See the Price Book

American Lock Series A7000

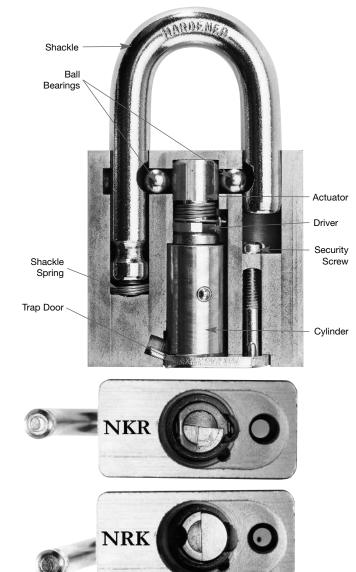


Disassembly

- Unlock shackle
- Use a Phillips screwdriver to remove security screw
- Remove security nut and trap door
- Remove cylinder and driver
- Place lock on flat surface and close shackle
- Actuator and ball bearings should fall out, if not, see page 20
- Remove shackle and spring

Assembly

- Insert shackle spring and shackle
- Insert ball bearings
- Insert actuator as shown
- Check operation with follower tool
- Insert cylinder with driver as shown
- Insert trap door
- Insert security nut and screw
- Tighten security screw
- Check operation



Model		Shackle		Shackle	Actuator		Ball
mouch	Diameter	Length	Part No.	Spring	NKR	NRK	Bearings
A7200	5/16"	1-1/8"	APKG1582240	APKG1606010	APKG1188270	APKG2081160	APKG1806010
A7201	5/16"	2"	APKG1582290	APKG1606010	APKG1188270	APKG2081160	APKG1806010
A7202	5/16"	3"	APKG1582310	APKG1606010	APKG1188270	APKG2081160	APKG1806010
A7205	5/16"	5"	APKG0000954	APKG1606010	APKG1188270	APKG2081160	APKG1806010
A7260	3/8"	1-1/8"	APKG1581550	APKG1611010	APKG1188270	APKG2081160	APKG1806010
A7261	3/8"	2"	APKG1581570	APKG1611010	APKG1188270	APKG2081160	APKG1806010
A7262	3/8"	3"	APKG1581590	APKG1611010	APKG1188270	APKG2081160	APKG1806010
A7300	7/16"	1-1/8"	APKG1582910	APKG1612010	APKG2084100	APKG2081160	APKG1807020
A7301	7/16"	2"	APKG1582920	APKG1612010	APKG2084100	APKG2081160	APKG1807020

For Quantity Content and Ordering Information, See the Price Book For Trap Door Part Numbers see page 32

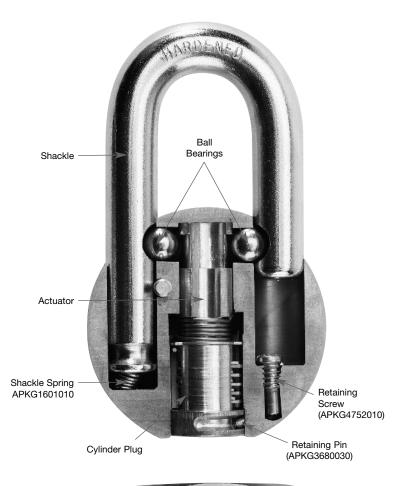
American Lock Series AH10

Disassembly

- Unlock shackle
- Use a flat tip screwdriver to remove security screw rap retaining pin from slot
- Remove security nut and trap door
- Remove cylinder plug
- Place lock on flat surface and close shackle
- Actuator and ball bearings should fall out, if not, see page 20
- Remove cylinder retaining pin
- Shackle cannot be removed without drilling pressed retaining pin

Assembly

- Insert shackle spring and shackle if removed
- Insert shackle retaining pins
- Insert ball bearings
- Insert actuator as shown
- Insert cylinder plug and retaining pin
- Insert security screw
- Tighten security screw
- Check operation







American Lock Series AL50

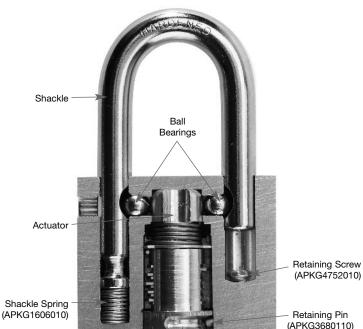


Disassembly

- Unlock shackle
- Use a flat tip screwdriver to remove security screw
- Remove security nut and trap door
- Remove cylinder plug
- Place lock on flat surface and close shackle
- Actuator and ball bearings should fall out, if not, see page 20
- Remove cylinder retaining pin
- Shackle cannot be removed without drilling pressed retaining pin

Assembly

- · Insert shackle spring and shackle if removed
- Insert shackle retaining pins
- Insert ball bearings
- Insert actuator as shown
- · Check operation with cylinder plug
- Rap retaining pin into place
- · Insert security screw
- Tighten security screw
- Check operation



(APKG4752010)

(APKG3680110)





Weatherbuilt[™] Covers

All padlocks available in the 1000, 5000 and 6000 series bodies, (except 1105, 5530 and 6530), are now available with an environmentally protective cover by adding the modification code COV to the lock part number.

In addition to having the new environmental cover, those locks will have a different shackle with more clearance to allow it to swing free over the cover. You will also notice that as of August, 2006 American Lock keys will have a longer neck for the same reason. The standard keyway will be changed to the longer neck key at that time and other keyways will follow as needed.





These new covers are designed to be fully serviceable. Unlike many other environmental

covers for padlocks, these may be removed or even replaced if desired. As you can see here, the cover has two main components, the top and bottom halves. Within each of those halves there are another two components. Each half of the cover is designed to have a comfortable fit to the padlock body that still allows easy

removal. In fact easy removal is especially important now that the lock can't effectively be serviced for rekeying without removing at least the bottom half of the cover.

On each side of the cover there is a release vent. Use a small screwdriver to push inward on the high side of the bottom cover while pushing it away from the top cover. Once that side has separated, the other side separates very easily with the screwdriver to allow removal of the bottom cover.





The top half of the cover can typically be pulled up from the padlock body but cannot be removed without disassembly of

the lock. There are two grommets in the shackle holes and they are designed to flex during use. This flexible design reduces undue friction against the shackle found in other environmental covers.

Inside the bottom of the cover you will see the shutter assembly and the pivot spring. The shutter assembly will be held in place by the two tabs shown here and if pried out of place will not likely fly apart. The pivot spring serves as a detent for the shutter assembly and must be removed before the shutter



assembly and installed after. Unless you need to replace the shutter assembly there is no reason to remove it. A different pivot spring is used in each model. On the top at the right is the SFIC version and on the bottom is the standard version.

Shutter Assembly Pivot Spring



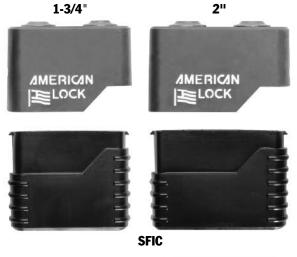


Standard

When replacing or installing the top half of the cover, the lock must be disassembled and the heel side of the shackle should be inserted in the side where the replica American Flag appears. Reassemble the lock and then snap the bottom half into place.

Weatherbuilt[™] Covers (Continued)





Standard

This cover is available in two sizes, one for 1-3/4" wide padlock bodies and the other for 2" wide padlock bodies. There are also two different height variations, one for standard padlock cylinders and another for SFIC padlock bodies. That difference is in the bottom half of the cover as you can see here.

The bottom of the covers does have a design that will help with key orientation. That difference is in the bottom half of the cover as you can see here. The bottom of the covers does have a design that will help with key orientation. The image on the top is the SFIC. The image on the bottom is the standard version.

Retrofitting these covers to an existing lock requires a new longer shackle. Select from the list below.



SFIC



Standard

		Standard Pad	lock Cylinder	SFIC Cy	/linder
		1-3/4" Body	2" Body	1-3/4" Body	2" Body
Pa	rt Description	5/16" Shackle	3/8" Shackle	5/16" Shackle	3/8" Shackle
Тс	op Cover Assembly	APKG0069402	APKG0069403	APKG0069402	APKG0069403
Btt	om Cover Assembly	APKG0069404	APKG0069406	APKG0069405	APKG0069407
	Grommet Only	APKG0056292	APKG0056297	APKG0056292	APKG0056297
Shutter /	Assembly w/Pivot Spring	APKG0070456	APKG0070456	APKG0070455	APKG0070455
	Pivot Spring Only	APKG0056289	APKG0056289	APKG0068752	APKG0068752
3/4"	Shackle, Brass	APKG0056792	N/A	APKG0056792	N/A
1-1/8"	Shackle, Steel	APKG0056291	APKG0056296	APKG0056291	APKG0056296
1-1/8"	Shackle, Brass	N/A	APKG0056760	N/A	APKG0056760
1-1/8"	Shackle, Stainless	APKG0065435	APKG0065432	APKG0065435	APKG0065432
2"	Shackle, Steel	APKG006796	APKG0056761	APKG0056796	APKG0056761
2"	Shackle, Brass	N/A	APKG0056762	N/A	APKG0056762
2"	Shackle, Stainless	APKG0065436	APKG0065433	APKG0065436	APKG0065433
2-1/2"	Shackle, Brass	APKG0056794	N/A	APKG0056794	N/A
3"	Shackle, Steel	APKG0056797	APKG0056763	APKG0056797	APKG0056763
3"	Shackle, Brass	N/A	APKG0056764	N/A	APKG0056764
3"	Shackle, Stainless	APKG0065437	APKG0065434	APKG0065437	APKG0065434
5"	Shackle, Steel	APKG0056798	N/A	APKG0056798	N/A
5"	Shackle, Stainless	APKG0065438	N/A	APKG0065438	N/A

Waatharhuilt™ Company Parta

Note: Except Grommets and Pivot Springs which have 12 ea. in a package, all other parts above have 6 parts in each package ordered.

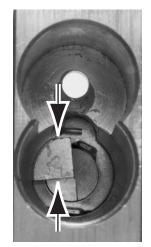
American Lock Actuators

For Lock Series	NKR Assembly	NRK Assembly	Stop Only	
A700	APKG2029010	APKG2084090	N/A	
A748	APKG1188300	APKG0000274	N/A	
A780	N/A	APKG0000274	N/A	
A790	N/A	APKG0000275	N/A	
A1405	APKG1188270	APKG2081160	APKG2036010	
A1105, A1205, A1305, A5530, A5560, A5570, A5100, A5200, A5260 A3105, A3200, A3260, A3560, A3570, A7200, A7260, A5300, A5360	APKG1188270	APKG2081160	N/A	
A3600, A3700	APKG1188280	APKG36DLRET	APKG2036010	
A3900	APKG1188280	APKG2081160	N/A	
A3800	APKG1188290	APKG38DLRET	APKG2036010	
A7300	APKG2084100	N/A	N/A	
AH10	APKG1188010	APKG2083060	N/A	
AL50	APKG1188030	APKG2083070	N/A	

American Lock Actuators

If your American Lock actuator and ball bearings do not fall out when the shackle is pushed back in place use the following procedure.

- 1. Using a following tool, unlock the shackle
- 2. With the actuator in the position shown, grab the pie shaped part using needle nose pliers or a hemostat where shown, DO NOT grab the washer
- 3. Pull actuator from lock body



American Lock Actuators (Continued)



NKR	APKG1188010	APKG1188030	APKG1188270	APKG1188280
	APKG1188290	APKG1188300	APKG2029010	APKG2084100
NRK	APKG0000274	APKG0000275	APKG2081160	APKG2083060
	APKG2083070	APKG2084090	A36DLRET	A38DLRET

American Lock Actuators (Continued)

American Lock Actuators for Master Lock Cylinders

American Lock Cylinders and Master Lock cylinders have a different end configuration and as a consequence require different actuators. The next table indicates which actuator is required to put a Master Lock six pin length cylinder into the American Lock series indicated. Also note that because of the different orientation of the cylinder end, the anti-bypass plate isn't required with the Master Lock cylinders and a 'K' type trap door is also required.

	Non Key Ret	aining (NKR)	Non Removat	ole Key (NRK)	
Actuator					
Lock #	APKG0001666	APKG0001669	APKG0001667	APKG0001670	
A700	X				
A700DL			Х		
A1000,					
A5000,		Х			
A6000					
A1000DL,					
A5000DL,				Х	
A6000DL					

Date Coding

Most American Lock bodies are stamped with a date code to indicate when the lock body was made. Generally the lock was assembled during the same month. The illustration below shows how to translate this date code. Note that only the first three of four characters stamped on the lock body are part of the date code.

					Мо	nth					
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Z	Y	Х	W	V	U	Т	S	R	Q	Р	0

	Year									
1	2	3	4	5	6	7	8	9	0	
N	М	L	K	J	I	Н	G	F	E	
				Aonth X Aarch	Year H J 1975					

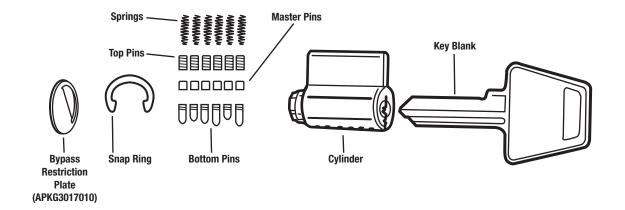
American Lock Drivers



Some cylinders that can be used in American locks do not have a plug end designed to interface with the American Lock actuator. To overcome that problem an extra part called a driver is needed to adapt the cylinder. The table below specifies the correct driver to be used with different lock body series and different types of cylinders.

	Part Number	Used in Locks	Use Notes
	ADRSCH6	A3600, A3700, A3800	Schlage or any 100% copy
	ADRMED6	A3600, A3700, A3800	Medeco 20 series
	ADRLOR30	A3600, A3700, A3800	Lori 1530
4	ADRLOR39	A3600, A3700, A3800	Lori 1539
	ADRVAR36	A3600, A3700, A3800	Assortment of Schlage, Medeco and Lori 1539
	APKG0000048	A3100, A3200, A3500	Requires SFIC
	APKG0001133	A1405	Yale 1220 LFIC
۵	APKG3020010	A3900	Schlage LFIC
	APKG4949200	A7000 series	Use only HTC2

American Lock Cylinders



Pin Tumbler Padlock Cylinder

There is a special cylinder used in the 5200GL. It has 5 pins in it and it is only 5 pins in length, the part number is APTC15.

The cylinder above is the standard pin tumbler padlock cylinder APTC14. When ordered with the part number APTC12 it is supplied with 5 pin tumblers and when ordered as part number APTC14 it will have 6 pin tumblers. Both sizes may be ordered with stainless steel pins by using the part number suffix 'S'. There is a special keyway used in the A748 lock and to get that keyway use part number APTC748 for a 6 pin cylinder. In all cases above, adding the suffix 'KZ' to the part number will get a zero bitted cylinder.

# Pins	Keyway	KD	Zero Bitted	Stainless Steel Pins
5	STD	APTC12	APTC12KZ	APTC12S
6	STD	APTC14	APTC14KZ	APTC14S
6	748	APTC748	APTC748KZ	APTC748



The APT2001 is supplied with shackle attached. Shackle removal is accomplished by removing the roll pin at the end of the cylinder.



Servicing the BumpStop® Mechanism

Cylinders containing the BumpStop[®] mechanism pin have one different component than standard cylinders and may be rekeyed when required. That one different component is the BumpStop[™] top pin. It is longer than a typical top pin and will only let the cylinder operate correctly when it is placed in a



correct pin chamber.

The table below indicates where the BumpStop[®] pin may be used in the different types of locks. The letter X in the table indicates a cut depth that isn't available in the product or a cut depth that isn't compatible with the BumpStop[®] pin.

When rekeying you need to

figure out which pin chamber has the BumpStop[®] pin in it and be sure to change where it is for the new combination of the new key.

For example, if you have a cylinder that was keyed to the combination 42645, the BumpStop[®] pin would be in the second pin chamber. If your new key has a combination of 54624, you would need to move the BumpStop[®] pin in the cylinder from the second to the fourth pin chamber.

Cut #	Master Doorlock	Master Padlock	Padlock KIK	American Padlock
0	X			X
1	BUMP			
2	BUMP			
3	BUMP	X	X	

Failure to move the pin will certainly make the cylinder vulnerable to a Bump Key attack and may make it impossible to even insert some cut keys because of the extra length of the BumpStop[®] driver pin.

Dump The Bump Pin

A good practice when keying a cylinder with BumpStop[®] technology is to always dump the Bump Pin. That way when you rekey it you can always put it into a valid location.

For more information on BumpStop®, please visit www.bumpstopsecurity.com.

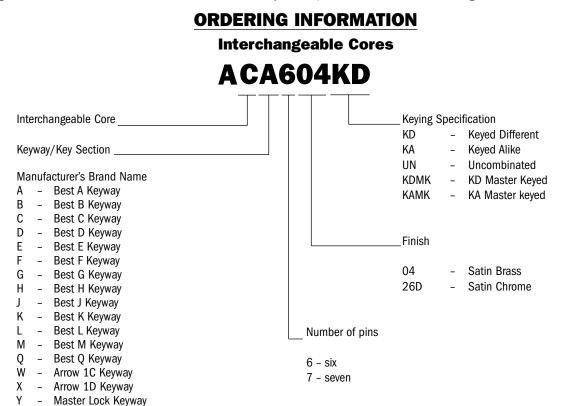


American Lock Interchangeable Cores

The Interchangeable Core cylinders are constructed to the SFIC standards that you encounter with many other brands. Keying uses the same techniques employed for those cylinders.

American Lock offers IC cylinders keyed to existing key systems if you are able to supply the combinations for the operating key, the TMK (Top Master Key), and the Control key. American Lock also has the ability to recreate your entire key system, including all potential expansion, if you can supply bitting combinations of all keys that have been used.

At present, American Lock offers IC cylinders compatible with the A2 and A4 format from the factory. If you are equipped for pinning SFIC cylinders, you can key the cylinders into an existing A3 system without difficulty. The listing below allows construction of a correct SFIC cylinder part number when ordering from Master Lock.



American Lock Door Hardware Multi-Cylinders

Two different types of cylinders can be used in the 3600, 3700 and 3800 series locks to make them compatible with Door Hardware keys. The first type is our Key Advantage cylinder. It is a cylinder with a figure 8 shell but it is

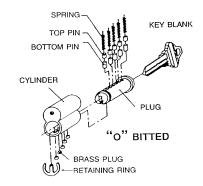
not an Interchangeable Core. Three different keyways are available and may be specified to be supplied with the padlock body by adding a single letter suffix to the part number. Those are;

A3600K = Kwikset standard keyway

A3600S = Schlage C standard keyway

A3600Y = Yale standard E1R (8) keyway

Rekeying of these cylinders must be accomplished with a follower as they are blind drilled and the holes are plugged at the bottom of the keyway. These cylinders are available

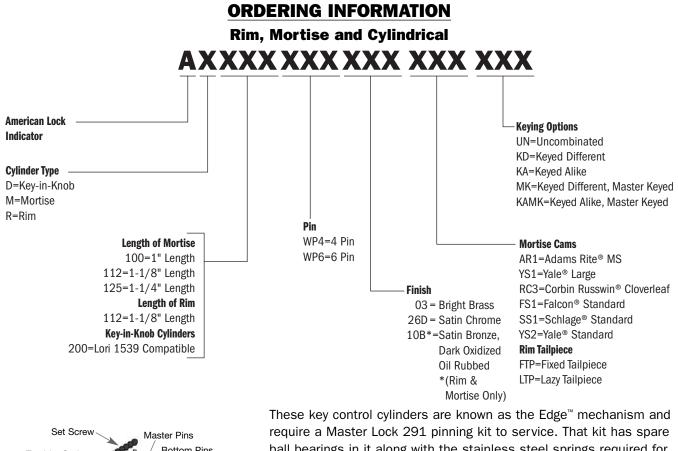


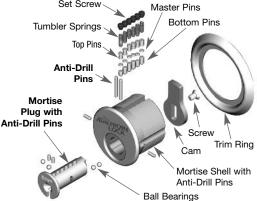
5-pin zero-bitted with 6-pin capacity.



American Lock Edge[™] Key Control Cylinders

Something new in the rim, mortise and cylindrical product is the patent-pending key control keyways. They are available for the rim, mortise and KIK cylinder types. The virtual keyway must be specified when ordering. The diagram below may be used to configure a part number from all of the different options.





ball bearings in it along with the stainless steel springs required for the Edge[™] products. (The springs in the American Lock pinning kit have not been tested to BHMA standards in this product.)

The Edge[™] system rim, mortise and KIK cylinders have the same .397" plug diameter found in the Master padlock cylinders, but the plug heads and shell OD have been enlarged to match traditional door hardware cylinder sizes. Because of the potential to interfere with the ball bearing mechanism, the mortise cylinder uses a single screw to mount the cam. There are six different cams available for the mortise lock and different tailpieces for the rim and KIK. (see table, page 28)

American Lock Edge[™] System Master Keying

The Edge[™] System products require application of one important rule regarding key system development. Number one master pins cannot be used in any Edge[™] cylinder. Those cylinders each have two slots in the shell for the ball bearings and if a number one master pin in the plug falls into one of those slots it will jam the cylinder preventing further rotation of the plug or withdrawal of the key.

If you do not have the capability to produce keying systems that have eliminated the need for number one master pins, American Lock will generate a system for you with up to four levels of keying and a total of 20,000 CK's in the system for a six pin cylinder. American Lock has a flat fee for this service but you must realize that a copy of the key system will not be retained by American Lock. A pinning matrix is also supplied with the keying system on a CD_ROM.

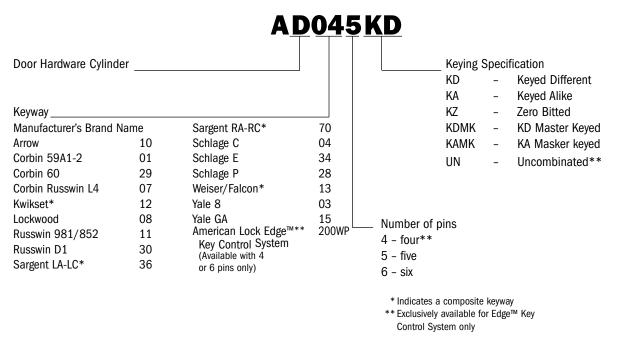
American Lock KIK Cylinders

We are now are offering KIK cylinders with a wide range of keyways. Our part numbering system for these products can be found below. Please consult the American Lock Price Book (A-001) for available pin options by cylinder.

ORDERING INFORMATION

KIK Cylinders

The diagram below may be used to configure a KIK part number for all of the different options.

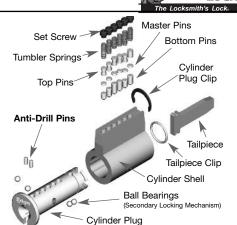


The door hardware cylinders are rekeyable using standard .115" diameter pins. The plug is mounted to the shell with a ring retainer, and use of a follower is recommended for rekeying. In order to mount the cylinders in the lock, a cylinder retainer plug is placed over the bible of the cylinder. The retainer plug has a threaded hole used to mount it to the lock via the toe side shackle hole and the socket screw. This cylinder also requires a special driver to be placed between the cylinder tail and the lock actuator in order to function.

Door Hardware Component Parts

All door hardware compatible plugs have hardened inserts to protect the shear line from drilling. The mortise and rim shells also have hardened inserts to protect the shear line and mounting points and were subjected to and passed the UL437 test for drilling. They also have set screws to cap the pin chambers for comb attack resistance.

Rekeying may be accomplished by removing the set screws at the top of each pin chamber or with the use of an American Lock Edge[™] follower (APKG0060612) and standard rekeying techniques. See the Catalog for further model and pricing information.

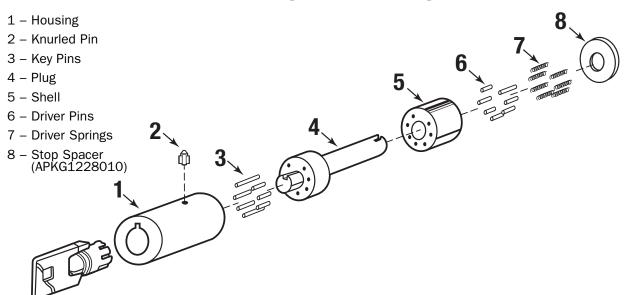


10

	Edge [™] Rim a	and Mortise		Standard Rim and Mortise				
	Part Number	Quantity in Package	Cylinder Component Code		Part Number	Quantity in Package	Cylinder Component Code	
0	APKG0049804	10	AR1		APKG1270960	10	AR1	
1		10	F0.1		APKG1270970	10	AR4	
0	APKG0049806	10	FS1		APKG1270980	10	RC3	
t	APKG0049805	10	RC3		APKG1270950	10	YS2	
ĥ	APKG0049807	10	SS1		APKG1270820	10	RT1	
					APKG0049967	10	N/A	
0	APKG0049809	10	YS1		APKG0049968	10	N/A	
8	APKG0049808	10	YS2	Ö	APKG0049971	10	N/A	
	APKG0049969	10	FTP		APKG0056303	10	N/A	
Ballin Kulta Kulta Kulta Kulta Kulta Kulta Kulta Kulta Kulta Kulta Kulta					APKG0049966	10	N/A	
	APKG0049970	10	LTP		APKG0056302	10	N/A	

Component Parts

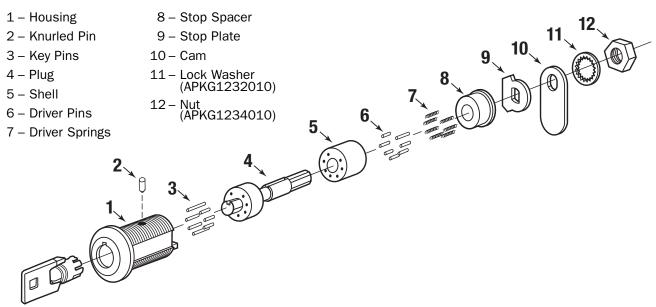
American Lock Cylinders



Tubular Key Padlock Cylinders

The AHTC2 is for use in the A7000 series tubular padlocks only. But may be KA with the A8000 series cam lock shown below.

Tubular Key Cam Lock Cylinders



Tubular cylinder assembly places the plug inside the shell and then that sub assembly is placed inside the housing. The housing and shell have a receptacle for a knurled pin to be pressed into place. In the padlock cylinder that pin protrudes and acts as a locator for the cylinder in the padlock body. In the cam lock it is below the threads so it doesn't interfere with the mounting nut. This pin is hardened and should never be removed.

The knurled Stop spacer in both locks is pressed into place in the end of the housing and requires a puller to be used to disassemble the cylinder for rekeying.



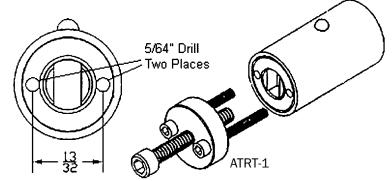
Tubular Servicing

To use the ATRT-1 puller;

1. Drill 2 holes with a 5/64" diameter. They should be 1/16" to 3/32" deep as shown above.

2. Retract the center screw of the puller and place tool over the back of the lock.

3. Thread both side screws into the holes drilled into the stop spacer. Use a hex wrench and turn each screw at least 3 turns into the drilled holes.



4. Tighten the center screw until the stop spacer has been pulled from the housing.

5. Remove the tool from the stop spacer and the spacer may be reused by pressing it back into the housing.

An extra shell is supplied in the keying kit to assist in loading pins and springs. If the extra shell is placed on the plug shaft and aligned with each pin chamber it is much easier to load new tumbler pins and springs. Once the new pins and springs have been loaded, remove the extra shell and insert the knurled stop spacer into the housing.

Tumbler pins for tubular cylinders have a .078"/.079" diameter. The Key Pins come in seven different lengths and each length must be used with a specific sized Driver Pin to prevent crushing springs in the cylinder. See chart at Right.

KEY PIN			DRIVER PIN		
Size	Length		Size	Length	
1	.2035"	>	5	.200"	
2	.2190"	>	5	.200"	
3	.2345"	>	4	.185"	
4	.2500	>	3	.170"	
5	.2655"	>	2	.155"	
6	.2810"	>	1	.140"	
7	.2965"	>	1	.140"	

Disc Tumbler Cylinder Plug

The disc tumbler padlock uses a double bitted waveform key. While it is possible to rekey a disc tumbler plug with the parts included in the service kit we recommend ordering keyed plugs from the factory by code.

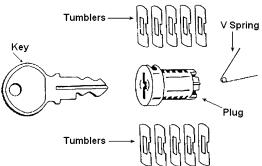
If you do want to attempt rekeying, follow this process;

- 1. Remove existing V-spring and tumblers.
- 2. Insert new tumblers, (5 sets of 2 each), and V-spring.
- 3. Insert new operating key, being sure it is fully inserted.
- 4. Using a hole saw, file or grinder, remove excess material from disc tumblers until they are flush with the outside diameter of the plug. Be sure not to change the shape or diameter of the plug during this process.

Replacement cylinders may be ordered with two different keying specifications, Coded and Uncoded. If you want coded plugs order the correct keyway and specify the code that should operate if you want a particular key, otherwise just use these part numbers;

Coded - ABTC1A, ABTC1B, ABTC1C, ABTC1E

Uncoded – ABTC1KZA, ABTC1KZB, ABTC1KZC, ABTC1KZE



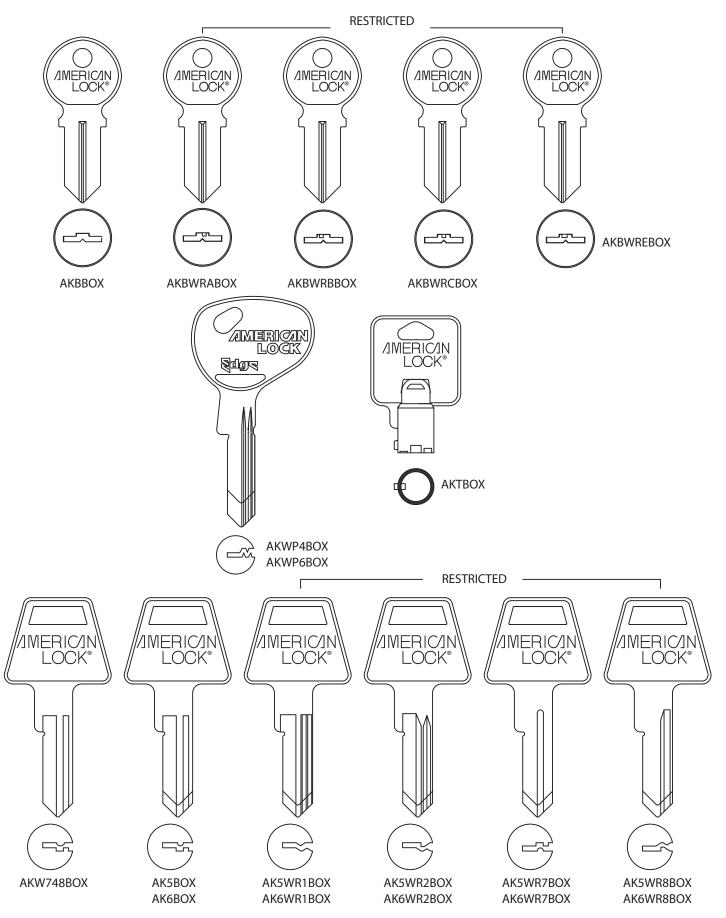
American Lock Retainers & Trap Doors

The trap door is an essential element in providing security for the cylinder in your American lock. The orientation of the trap door is slightly different based upon the keyway in the cylinder. The table below indicates the part number of the trap door that should be used in a lock when a particular keyway is used in that same lock. The picture in the table is how the trap door would appear from the bottom of the lock.

Picture	Used on Locks	with Keyways	Part Number
	All models requiring a trap door except those listed in the table below	STD, R1, R2	APKG4680210
	Stainless Steel All models requiring a trap door except those listed in the table below	STD, R1, R2	APKG0110026
	All models requiring a trap door except those listed in the table below	R7, R8, MLC Keyways and ALC Edge [™]	APKG4680220
-09	Stainless Steel All models requiring a trap door except those listed in the table below	R7, R8, MLC Keyways and ALC Edge [™]	APKG0P10774
-00	A700	STD, R1, R2	APKG4680200
	A700	R7, R8, MLC Keyways and ALC Edge [™]	APKG4680230
0	A748, A780, A790	748, STD, R1, R2	APKG4680260
0	A748, A780, A790	R7, R8, MLC Keyways and ALC Edge [™]	APKG4680270
-00	All 7000 Series	All	APKG4680240
	All Except 3000 Series	All	APKG4761010
THE THERE IS NOT THE TRANSPORT	Stainless Steel – All Except 3000 Series	All	APKG0110028
	All Except 3000 Series	All	APKG4746010
	Stainless Steel – All Except 3000 Series	All	APKG0110027

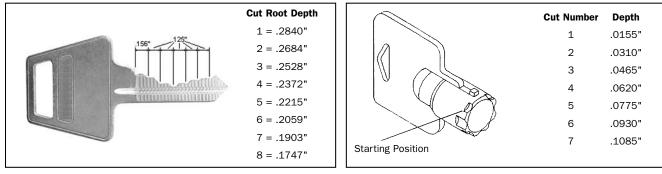
American Lock Keys & Keyways





American Lock Bitting Specifications

All American Lock keys use the same spacing and depth specifications as shown here.



Spacing: 1st cut center = .156" - Center to center = .125"

Lock Lubricants

Master Lock Lock Lubricant can be used for lubricating the various lock components. The lubricants contain PTFE formulations that can be used for padlocks, door locks, automotive, marine, and multipurpose applications. The effective operating temperature range is -40°F to 500°F and helps de-ice pre-lubricated locks.

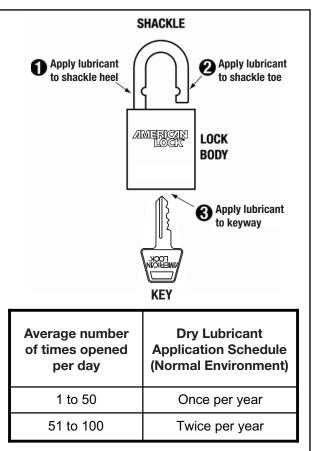
Two aerosol sizes are available that contain a "dry" lubricant formula that lubricates without collecting dirt or dust. The 2305 aerosol is a 5.25 oz. size convenient for carrying to jobs and the 2311 aerosol is an 11 oz. size ideal for keeping in the shop.

Recommended Padlock Cleaning & Lubrication

Over time, dust particles and chemicals in the air settle on and in the padlock. They can then create friction inside the precision locking and keying components and impede the opening and closing of the padlock. Annual cleaning is recommended. In particularly dusty or corrosive environments, clean every three months.

Recommended Directions:

- Flush grease and dirt from the padlock as needed.
- Insert key, open and close padlock several times to distribute lubricant.



Service Kits





APK-1 Pin Kit

100 ea. Bottom pins 1 through 8 100 ea. Top pins 10 ea. Driver springs 5 ea. Security screws 5 ea. Security nuts



ATCR3 Tubular Keying Kit

100 ea. Key pins 100 ea. Driver pins 100 ea. Springs 10 ea. 180° Stop plates 10 ea. 90° Stop plates 1 ea. Shell 1 ea. ATRT-1 rekeying tool 1 ea. Depth key



ASK-8 Pin Kit

100 ea. Bottom pins 1 through 8 100 ea. Master pins 2 through 7 100 ea. Top pins

100 ea. Driver springs

12 ea. (Small) A5000 series ball bearings 12 ea. (Large) A700 series ball bearings 25 ea. Security screws

25 ea. Security nuts

2 ea. Trap doors for A700 series locks 4 ea. Trap doors for A5000 series locks 1 ea. American Lock Co. 6 pin cylinder 2 ea. Actuators for A700 series locks 4 ea. Actuators for A5000 series locks 1 ea. American Lock Co. 5 pin cylinder 10 ea. Snap rings 1 ea. Follower tool



AALSK-18 Disc Tumbler Service Kit

25 ea. AL50 cylinder retaining pins 25 ea. AH10 cylinder retaining pins 25 ea. Cylinder Retaining screws 10 ea. AL50 shackle springs 10 ea. AH10 shackle springs 10 ea. Brass disc tumblers 10 ea. Tumbler V-springs 10 ea. Ball bearings, AL50 small size 10 ea. Ball bearings, AH10 large size 10 ea. AH10 knurled shackle pins 10 ea. AH10 retaining shackle pins 3 ea. Cylinder assemblies w/2 keys ea. 3 ea. AH10 Actuators 3 ea. AL50 Actuators



AMRAK1 Mortise and Rim, Cam, Clip and Ring Kit

36 ea. Space collars24 ea. Mortise cams18 ea. Trim rings18 ea. Rim tailpieces12 ea. Cylinder mounting plates6 ea. Cam mounting screws

For Quantity Content and Ordering Information See the Price Book



American Lock Company A Division of Master Lock Company LLC Milwaukee, Wisconsin 53154 1-800-323-4568

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