

Installation Instructions



6300, 11-6300 & 10-6300

LFIC (Removable Core) Cylinders

WARNING

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

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WARNING

Attention Installer: Improper installation may result in damage to the product and void the factory warranty.

A6409M 11/22

Experience a safer
and more open world

6300, 11-6300, & 10-6300

SARGENT[®]

ASSA ABLOY

LFIC (Removable Core) Cylinder

Installation Instructions

1

Installation Notes

The 6300 series LFIC (Removable Core) uses a control key whose bittings match the Top Master Key of the key system in positions 1, 2, 5 and 6. The control bittings in positions 3 and 4 are selected from the Key Bitting Array of the master key system.

This method significantly reduces the bittings available in the Key Bitting Array of any Top Master Key. Increasing the levels in the master keying system and cross keying also has a significant impact on the yield of keys at each selected level.

The chamber stack value for the 6300 series LFIC (removable core) is normally calculated by using a stack value of 15 in positions 1, 2, 5, and 6. This is the total value of the bottom pins, master splits and driver pins that would be required to pin the core (based on the keying levels).

In chambers 3 and 4 of the 6300 series LFIC (removable core), the stack value is 20. This is done to allow the control key to achieve a shear line in chambers 3 and 4 of the control sleeve.



Important: Cylinders master keyed at the factory use hollow drivers and SARGENT recommends their continued use. Hollow drivers must be used in chambers 3 and 4. A different spring is used in conjunction with the hollow drivers.

These special drivers and springs are included in a special pinning kit 437 RC. The drivers and springs can also be ordered individually. The machined or hollow end of the hollow driver faces towards the spring.

- 65-6300 or 1 bitted cylinders are supplied for field keying and are provided with 2 key blanks
- 65-6300 cylinders are shipped without pins and springs
- 1 bitted cylinders supplied for field keying have pins loaded only in chambers 3 and 4
- 111111 bitted cylinders utilize a control key cut 113511

A6409M 08/22

LFIC (Removable Core) Cylinder

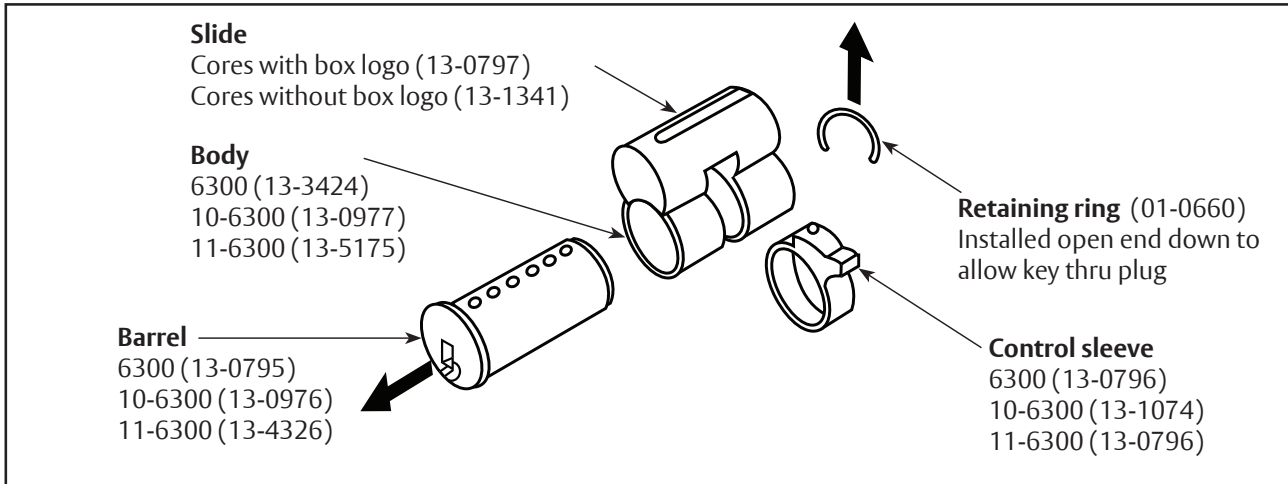
Installation Instructions

2

Installation Instructions

a

Remove the retaining ring, then remove the barrel from the cylinder body and sleeve or load from the top using the Top Loading Kit (P/N 436-1).



b

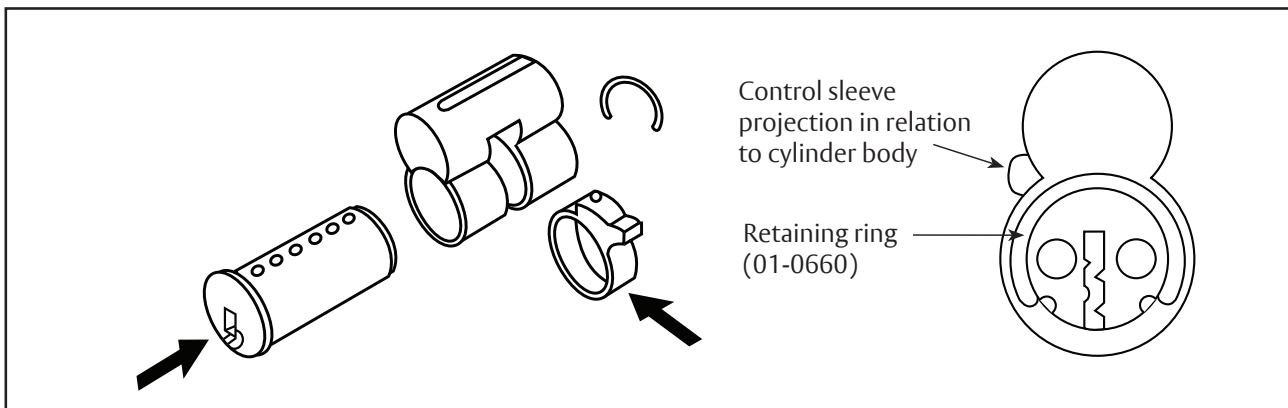
With sleeve positioned correctly in cylinder body (as shown above), load barrel and cylinder body. Use the template on page 4 to determine pinning.

Note: The SARGENT rekeying kit 437 RC contains the hollow drivers and springs that must be used in chambers 3 and 4 for factory keyed cores prior to January 2009.

c

Finish assembling by installing the retaining ring to barrel. The barrel is designed to hold the ring in position.

Important: The retaining ring must clear keyway.



A6409M 08/22

3 Template

The following is an example showing how to select the pin segments for each chamber of the SARGENT 6300 series LFIC (removable core). Use this as a template for calculating the correct pin loads.

1 List of Operating Keys	Sample KEY SYMBOLS	Sample BITTINGS											
List Day Changes/MK's GM's etc	GM "A"	4 9 4 1 6 0	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>										
Do Not list bitting of	MK "AA"	4 9 2 3 6 0	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>										
the Control key in this area.	CK "AA1"	2 1 2 3 2 2	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>										

2 Calculate Bottom Pins and Master Splits
Find correct size for Bottom and Master Splits from operating key's list

(a)***** BOTTOM PINS *****	2 1	Sample 2 1 2 2	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>						
(Smallest number in each chamber)									
(b)***** MASTER SPLITS *****	2 8	2 2 4 8	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>						
(Difference in smallest and largest number in each chamber)									

3 Calculate Value of Control Splits
3.3 CONTROL KEY BITTING
(3.1) A number 8 appears on this line in positions 3 and 4
(3.2) Insert bitting of positions 3 and 4 of control key and add to number 8's in positions 3 and 4

3.3 CONTROL KEY BITTING	4 9 6 5 6 0	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>						
(3.1) A number 8 appears on this line in positions 3 and 4	- - 8 8 - -	<table border="1"><tr><td> </td><td> </td><td>8</td><td>8</td><td> </td><td> </td></tr></table>			8	8		
		8	8					
(3.2) Insert bitting of positions 3 and 4 of control key and add to number 8's in positions 3 and 4	+6 +5	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>						
3.3 CONTROL PIN FACTOR	= 14 13	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>						
(3.4) Subtract largest number in positions 3 and 4 from list of operating keys from control pin factor	-4 -3	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>						
(c)***** CONTROL SPLITS *****	= = 10 10	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>						

4 Calculate Top or Driver Pin (Total Stack Value)

	15 15 20 20 15 15	<table border="1"><tr><td>15</td><td>15</td><td>20</td><td>20</td><td>15</td><td>15</td></tr></table>	15	15	20	20	15	15
15	15	20	20	15	15			
(4.1) Add value of: (a) Bottom Pins, + (b) Master Splits + (c) Control Splits. Enter total here.	4 9 14 13 6 10	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>						
(4.2) Subtract total from <u>TOTAL STACK VALUE</u> above.								
(d)(4.3) Enter values on this line. DRIVER SPLITS (Master Splits)	11 6 6 7 9 5	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>						

5 Pinning Assembly Matrix Example of pinning matrix for above key bittings.

Transfer Values labeled	(d) Driver Splits	11 6 6 7 9 5	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>						
(a), (b), (c), (d) from items	(c) Control Splits	- - 10 10 - -	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>						
2, 3, and 4 above.	(b) Master Splits	2 8 2 2 4 8	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>						
	(a) Bottom Pins	2 1 2 1 2 2	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>						
	<u>Stack Total</u> Limits	15 15 20 20 15 15	<table border="1"><tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>						