

Test Verification of Conformity

On the basis of the tests undertaken, the sample(s) of the below product have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out.

Applicant Name & Address : GALLERY SPECIALTY HARDWARE LTD.
676 Petrolia Road
Toronto, Ontario, Canada
M3J 2V2

Product(s) Tested : Cylindrical Locksets

Ratings and principal characteristics : Grade 2

Model(s) : 5300 series including below models:
Model: 5304, Office Lockset;
Model: 5301, Passage Lockset;
Model: 5305, Classroom Lockset;
Model: 5307, Storeroom Lockset;
Model: 5322, Privacy Lockset.

Brand name : —

Relevant Standard(s) / Specification(s) : ANSI/BHMA A156.2-2003

Verification Issuing Office Name & Address : Same as Legal Entity

Verification/Report Number(s) : GZ08070287-1 / GZ08070287-1, GZ08070287-3

NOTE 1: This verification is part of the full test report(s) and should be read in conjunction with it.

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Signature

Name: Baud Qiu
Position: Assistant Manager
Date: July 15, 2008



INTERTEK TESTING SERVICES
 SHENZHEN LTD. GUANGZHOU BRANCH
 1~8th floor, Block E2, 11 Cai Pin Road
 Science city, Guangzhou Economic Development Zone
 Guangzhou, P. R. China 510663

Intertek Test Report No.GZ008070287-1

EVALUATION
 OF
Cylindrical Lockset 5304 Grade 2
 FOR
GALLERY SPECIALTY HARDWARE LTD.
 676 Petrolia Road
 Toronto, Ontario, Canada
 M3J 2V2

TEST STANDARD:

Per product's specifications, using the following standard as a guideline: ANSI/BHMA A156.2 - 2003 American National Standard for Bored and Preassembled Locks & Latches

SAMPLES:

Samples were identified by the client as Cylindrical Lockset 5304 Grade 2.
 Samples were received in good condition on August 9, 2006, which manufactured by Shanghai Doormax Hardware Manufacturing Co., Ltd. Qiantian Branch

TEST DATES:

Form August 14, 2006 to October 14, 2006

RESULTS: Compliant

Subsection	Test Description	Test Results
9	Operational Tests	Compliant
10	Strength Tests	Compliant
11	Cycle Tests	Compliant
12	Security Tests	Compliant
13	Material Evaluation Tests	Compliant

The attached summary and data are results of the product testing and evaluation.

Report Prepared By:

Happy Chen
 Happy Chen
 Engineer
 Intertek

Reviewed By:

John Qiao
 John Qiao
 Project Engineer
 Intertek



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TEST RESULTS

9 Operational Tests

9.1 Force to Retract Unloaded Bolt

9.1.1 Torque to retract latch bolt by lever - Maximum (lbf in.) Compliant

9.1.2 Torque to retract latch bolt by knob - Maximum (lbf in.)

Knob/Lever Direction	Specimen #001		Specimen #003		Specimen #005		Max Allowable	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
Outside CW	8.9	18.6	14.2	11.1	11.5	22.1	28.0	34.0
Outside CCW	15.0	18.6	15.0	17.7	15.0	21.2	28.0	34.0
Inside CW	14.2	12.4	15.0	13.3	12.4	10.6	28.0	34.0
Inside CCW	10.6	10.6	11.5	9.7	9.7	7.1	28.0	34.0

Comments: Retract latch bolt by lever

9.1.3 Force to retract latch bolt with Thumb piece (lbf) Not applicable

Direction	Specimen #001		Specimen #003		Specimen #005		Max Allowable	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
Inside Force	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Outside Force	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

9.1.4 Force to retract latch bolt by Paddle (lbf) Not applicable

Direction	Specimen #001		Specimen #003		Specimen #005		Max Allowable	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
Inside Force	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Outside Force	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Comments: No thumb piece and paddle

9.1.5 Torque to retract latch bolt by key, with deadlatch depressed. (lbf-in) Not applicable

Key Direction	Specimen #001		Specimen #003		Specimen #005		Max Allowable	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
CW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CCW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Comments:

9.1.6 Torque to retract latch bolt by turn. (lbf-in) Not applicable

Turn Direction	Specimen #001		Specimen #003		Specimen #005		Max Allowable	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
CW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CCW	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Comments: No Turn.

9.2 Force to Retract Preloaded Bolt. (Warped Door) (lbf in.)

9.1.1 Torque to retract latch bolt by lever - Maximum (lbf in.)

Compliant

9.1.2 Torque to retract latch bolt by knob - Maximum (lbf in.)

Knob/Lever Direction	Specimen #001		Specimen #003		Specimen #005		Max Allowable	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
Outside CW	40.7	38.1	46.0	31.0	33.6	46.0	70.0	85.0
Outside CCW	38.1	38.1	40.7	39.8	37.2	39.8	70.0	85.0
Inside CW	35.4	26.6	43.4	26.6	46.9	26.6	70.0	85.0
Inside CCW	27.4	27.4	33.6	25.7	35.4	29.2	70.0	85.0

Comments:

9.1.3 Force to retract latch bolt with Thumb piece (lbf)

Not applicable

Direction	Specimen #001		Specimen #003		Specimen #005		Max Allowable	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
Inside Force	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Outside Force	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

9.1.4 Force to retract latch bolt by Paddle (lbf)

Not applicable

Direction	Specimen #001		Specimen #003		Specimen #005		Max Allowable	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
Inside Force	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Outside Force	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Comments:

9.3 Latch Bolt Projection Minimum (in.) when depressed to dead latched position.

Compliant

	Specimen #001		Specimen #003		Specimen #005		Minimum Allowable	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
Projection	0.360	0.360	0.356	0.351	0.354	0.373	0.250	0.203

Comments:

9.4 Dead Latch or Aux. Latch Projection (in.) at first effective dead locking of latch bolt.

Compliant

	Specimen #001		Specimen #003		Specimen #005		Minimum Allowable	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
Projection	0.290	0.277	0.240	0.270	0.250	0.290	0.219	0.172

Comments:

9.5 Force to latch door (lbf)

Compliant

	Specimen #001		Specimen #003		Specimen #005		Max Allowable	
	Initial	50%	Initial	50%	Initial	50%	Initial	50%
Force	2.9	2.5	2.5	1.8	2.2	2.0	4.5	5.4

Comments:

10 Strength Tests**10.1 Locked Torque Test**

Compliant

Knob/Lever Direction	Specimen #041	Specimen #043	Specimen #046	Test Torque Minimum (lbf-in)
Outside CW	450	450	450	450
Outside CCW	N/A	N/A	N/A	N/A

Comments: For lever trim, only one direction was applicable

10.2 Axial Load Test - Minimum (lbf)

Compliant

Knob/Lever Direction	Specimen #041	Specimen #043	Specimen #046	Test Load Minimum (lbf)
Outside	300	300	300	300
Inside	300	300	300	300

Comments:

Lever Load 2 inches from Spindle (lbf)

Compliant

Knob/Lever	Specimen #041	Specimen #043	Specimen #046	Test Load Minimum (lbf)
Outside	150	150	150	150
Inside	150	150	150	150

Comments:

Entry Handleset, outside thumb piece

Not applicable

Thumb Piece	Specimen #041	Specimen #043	Specimen #046	Test Load Minimum (lbf)
Outside	N/A	N/A	N/A	N/A

Comments:

10.3 Vertical Load Test - Minimum (lbf)

Compliant

Knob/Lever	Specimen #041	Specimen #043	Specimen #046	Test Load Minimum (lbf)
Outside	250	250	250	250
Inside	250	250	250	250

Comments:

Locked Outside Thumb piece Load

Not applicable

Thumb Piece	Specimen #041	Specimen #043	Specimen #046	Test Load Minimum (lbf)
Outside	N/A	N/A	N/A	N/A

Comments:

Paddle Load

Not applicable

Paddle Mount	Specimen #041	Specimen #043	Specimen #046	Test Load Minimum (lbf)
Vertical	N/A	N/A	N/A	N/A
Horizontal	N/A	N/A	N/A	N/A

Comments:

10.4 Latch Bolt Strength - Minimum (lbf)

Compliant

	Specimen #041	Specimen #043	Specimen #046	Test Load Minimum (lbf)
Load	800	800	800	800

Comments:

10.5 Latch Bolt End Pressure - Minimum (lbf)

Compliant

	Specimen #041	Specimen #043	Specimen #046	Test Load Minimum (lbf)
Load	100	100	100	100

Comments:

10.6 Unlocked Outside Lever or Knob Torque Test -

Compliant

downward for levers, clockwise for knobs

Unlocked Knob/Lever	Specimen #041	Specimen #043	Specimen #046	Test Torque Minimum (lbf-in)
Load	225	225	225	225

Comments:

10.7 Unlocked Entry Handleset Load Test

Not applicable

Unlocked Handleset	Specimen #041	Specimen #043	Specimen #046	Test Load Minimum (lbf)
Load	N/A	N/A	N/A	N/A

Comments:

10.8 Qualification Requirements

Compliant

Lever can not deflect 3/8", nor can it touch the door with 25lbf at 2" from spindle.

	Specimen #041	Specimen #043	Specimen #046	Standard
Deflection (in)	0.2"	0.285"	0.24"	0.375"
Did lever touch the door? (Y/N)	N	N	N	N

Comments:

9.1 Force to Retract Unloaded Bolt

9.1.1 Torque to retract latch bolt by lever - Maximum (lbf in.)

9.1.2 Torque to retract latch bolt by knob - Maximum (lbf in.)

Compliant

Knob/Lever Direction	Specimen #041	Specimen #043	Specimen #046	Maximum Allowed Torque (lbf-in)
Outside CW	15.9	24.8	20.4	34.0
Outside CCW	10.6	10.6	11.5	34.0
Inside CW	14.2	8.9	13.3	34.0
Inside CCW	11.5	25.7	15.9	34.0

Comments:

9.1.3 Force to retract latch bolt with Thumb piece (lbf) Not applicable

	Specimen #041	Specimen #043	Specimen #046	Force Maximum (lbf)
Inside Force	N/A	N/A	N/A	N/A
Outside Force	N/A	N/A	N/A	N/A

9.1.4 Force to retract latch bolt by Paddle (lbf) Not applicable

Direction	Specimen #041	Specimen #043	Specimen #046	Force Maximum (lbf)
Inside Force	N/A	N/A	N/A	N/A
Outside Force	N/A	N/A	N/A	N/A

Comments:

9.1.5 Torque to retract latch bolt by key, with deadlatch depressed. (lbf-in) Compliant

Key Direction	Specimen #041	Specimen #043	Specimen #046	Maximum Allowed Torque (lbf-in)
CW	5.3	2.7	4.4	11.0
CCW	4.4	2.7	4.4	11.0

Comments:

9.1.6 Torque to retract latch bolt by turn. (lbf-in) Not applicable

Turn Direction	Specimen #041	Specimen #043	Specimen #046	Maximum Allowed Torque (lbf-in)
CW	N/A	N/A	N/A	N/A
CCW	N/A	N/A	N/A	N/A

Comments:

9.2 Force to Retract Preloaded Bolt (Warped Door) (lbf in.)

9.1.1 Torque to retract latch bolt by lever - Maximum (lbf in.) Compliant

9.1.2 Torque to retract latch bolt by knob - Maximum (lbf in.)

Knob/Lever Direction	Specimen #041	Specimen #043	Specimen #046	Maximum Allowed Torque (lbf-in)
Outside CW	43.4	31.0	30.1	70.0
Outside CCW	53.1	36.3	50.4	70.0
Inside CW	33.6	30.1	31.0	70.0
Inside CCW	42.5	31.9	38.1	70.0

Comments:

9.1.3 Force to retract latch bolt with Thumb piece (lbf) Not applicable

Direction	Specimen #041	Specimen #043	Specimen #046	Force Maximum (lbf)
Inside Force	N/A	N/A	N/A	N/A
Outside Force	N/A	N/A	N/A	N/A

9.1.4 Force to retract latch bolt by Paddle (lbf) Not applicable

Direction	Specimen #041	Specimen #043	Specimen #046	Force Maximum (lbf)
Inside Force	N/A	N/A	N/A	N/A
Outside Force	N/A	N/A	N/A	N/A

Comments:

9.3 Latch Bolt Projection Minimum (in.) when depressed to dead latched position. Compliant

	Specimen #041	Specimen #043	Specimen #046	Minimum (inches)
Projection	0.380	0.342	0.353	0.250

Comments:

11 Cycle Test Compliant

Rotation	Counter Reading	Date	Technician's Initials
CW	0	2006-8-15	Clark
	27,542	2006-8-16	Clark
	165,056	2006-8-22	Clark
	200,000	2006-8-23	Clark
	0	2006-8-24	Clark
	22,671	2006-8-25	Clark
	109,318	2006-8-28	Clark
	200,000	2006-9-1	Clark

11.5 Performance After Cycle Test Compliant
 Are locks operative in all respects including effective dead locking of the latch bolt? Yes X
No

Comments:

12 Security Tests

12.1 Dead Latch and Strike Impact Test

Compliant

Sample No.: #009

Impacts Two blows of 60 ft-lbf plus
Two blows of 90 ft-lbf

Entry _____
 Non-Entry X

Comments:

12.2 Abusive Locked Lever Test - Outside Locked Levers

Not applicable

Sample No.:

Load	Torque Applied	Measured Inside Lever Torque	Lever Torque Max.
N/A	N/A	N/A	N/A

Entry _____ Non-Entry _____

	Measured (in.)	Minimum (in.)
9.3 Dead Latch Projection:	N/A	N/A
9.4 Aux. Projection to Dead Latch:	N/A	N/A

Comments:

12.3 Locked Lever or Paddle Vertical Impact Test

Not applicable

Sample No.:

Impacts _____

Entry _____

Non-Entry _____

Measured Inside Lever Torque	Inside Lever Torque Max.
N/A	N/A

Paddle Mount	Measured Inside Paddle Force	Inside Paddle Force Max.
Vertical	N/A	N/A
Horizontal	N/A	N/A

Comments:

12.4 Locked Cylinder in the Lever Face Impact Test

Not applicable

Sample No.:

Impacts	Impacts Conducted	Inside Lever Torque	Max Inside Lever Torque
N/A	N/A	N/A	N/A

Entry _____ Non-Entry _____

1 of 3 / 2/1

Comments: Only applicable to Grade 1 product

12.5 Locked Lever or Knob Catch Attack Test

Not Applicable

Sample No.: _____
 Entry _____
 Non-Entry _____

	Catch Force (lbf)	Axial Force (lbf)
Applied Force	N/A	N/A

Comments:

13 Material Evaluation Tests

13.1 Knob Crush Test

Not Applicable

Compression Load: 1000 lbf

Sample No.: _____

Deformation	Initial Diam.	Final Diam.	%	Max Allowable (%)
Outside Knob	N/A	N/A	N/A	N/A
Inside Knob	N/A	N/A	N/A	N/A
		Measured (lbf-in)		Maximum Allowable (lbf-in)
Key Torque-At	CW	N/A		N/A
Test Completion	CCW	N/A		N/A

Comments: No Knob.

13.2 Rose Assembly Dent Test

Compliant

Drop an 8 ounce projectile from a height of 12" in a drop tube

Sample No.: #009

	Measured Depth (in)	Maximum Depth Allowable (in)
Inside	0.076	0.100
Outside	0.067	0.100

Comments:

13.3 Outside Rose Deformation Test

Compliant

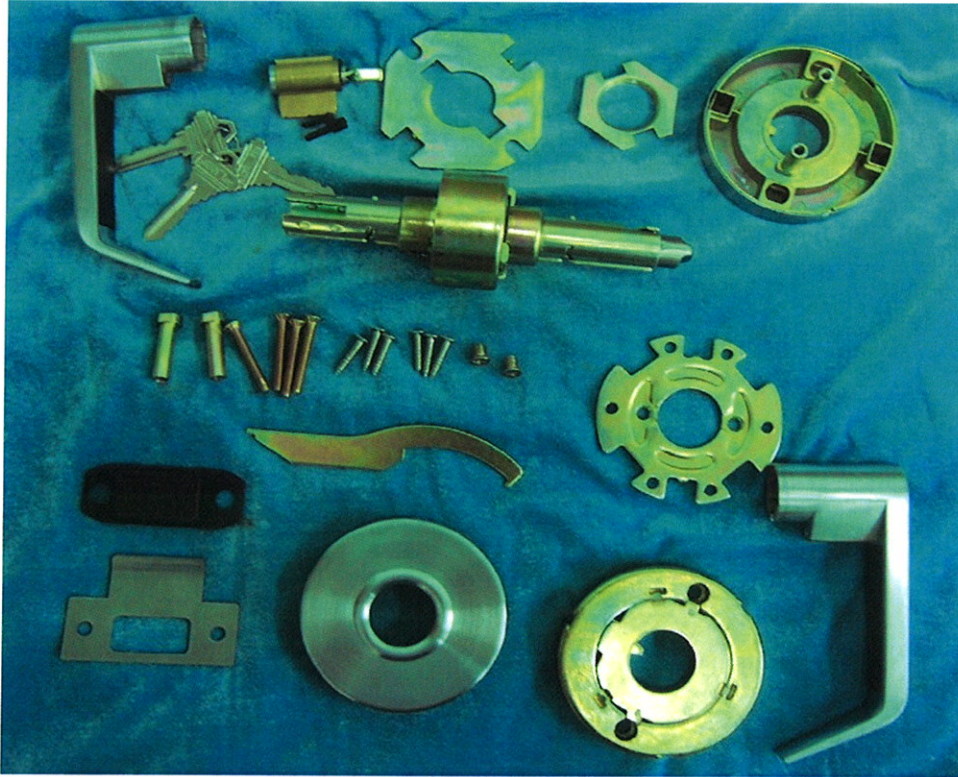
Sample No.: #010

Initial Rose Width (in)	Load (lbf)	Final Rose Width (in)	Min. Allowable (in)
3.330	560	3.325	2.997

Comments: The rose assembly deform was within 0.15%

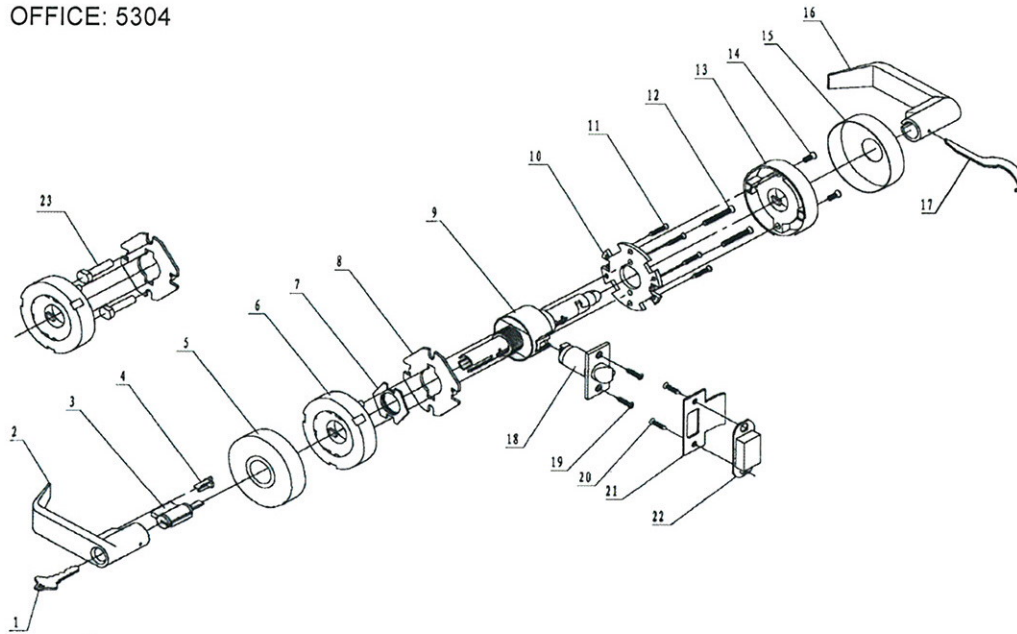
1575 5/14/1

Product Photo



Product Drawing

OFFICE: 5304



ENGINEERING EVALUATION



Intertek

REPORT NUMBER: GZ08070287-3
ISSUE DATE: July 15, 2008

EVALUATION CENTER

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
1~8th floor, Block E2, 11 Cai Pin Road, Science city,
Guangzhou Economic Development Zone, Guangzhou

RENDERED TO

GALLERY SPECIALTY HARDWARE LTD.

676 Petrolia Road
Toronto, Ontario, Canada
M3J 2V2

PRODUCT EVALUATED: Cylindrical Locksets,
Model: 5301, 5305, 5307, 5322.
EVALUATION PROPERTY: Grade 2

Engineering Evaluation of Cylindrical Locksets All Function for compliance with the applicable requirements of the following criteria: ANSI/BHMA A156.2-2003 Bored and Preassembled Locks and Latches

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1 Introduction

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch has conducted an engineering evaluation for GALLERY SPECIALTY HARDWARE LTD., on Cylindrical Locksets All Function, to evaluate Operational tests, Strength tests, Cycle test, Security tests and Material evaluation tests. The evaluation was conducted to determine if Cylindrical Locksets All Function would maintain compliance with ANSI/BHMA A156.2-2003 Bored and Preassembled Locks and Latches

2 Sample and Assembly Description

Samples were submitted to Intertek directly from the manufacturer: Shanghai Doormax Hardware Manufacturing Co., Ltd. Qiantian Branch, located at Liyi Park Area, QingTian Economy Development Zone Zhejiang Province, China. Samples were received at the Evaluation Center on October 4, 2007.

Model: 5304, Function Description: Office Lockset;
Model: 5301, Function Description: Passage Lockset;
Model: 5305, Function Description: Classroom Lockset;
Model: 5307, Function Description: Storeroom Lockset;
Model: 5322, Function Description: Privacy Lockset.

Refer ATTACHMENTS for photos and assembly drawings

3 Reference Documents

The model 5304 Office Lockset was previously tested by Intertek in accordance with standard ANSI/BHM A156.2-2003, and found to be compliant to Grade 2. Results were found in Intertek Test Report GZ08070287-1, dated July 15, 2008.

In order to assess potential performance differences between the model 5304 and each of the 4 function undergoing evaluation, customer-supplied technical drawings and specifications of each model were reviewed and compared to those of model 5304.

4 Evaluation Method

Documents and samples of 5301, 5305, 5307 and 5322 were checked, and found to have the similar construction with 5304.

5 Conclusion

It was determined that the 4 models 5301, 5305, 5307 and 5322 were similar, with minor variations, to the previously tested model 5304. These variations would not significantly affect the performance.

INTERTEK TESTING SERVICES SHENZHEN LTD. GUANGZHOU BRANCH

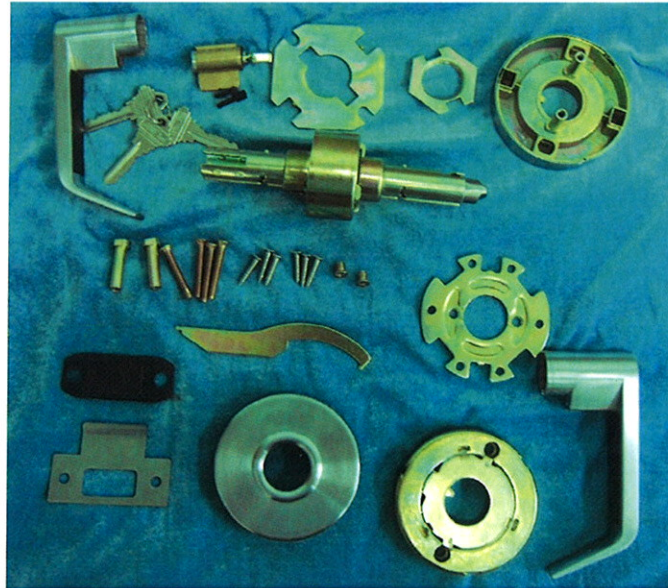
Reported by:

Happy Chen
Happy Chen
Engineer
Intertek

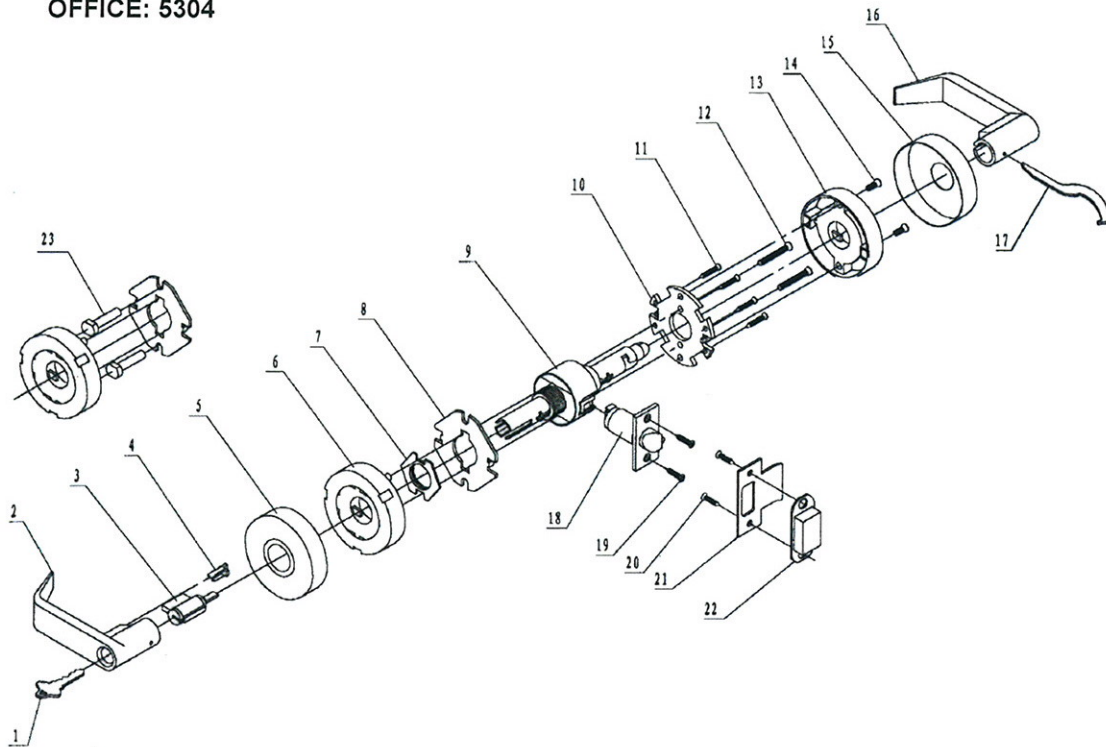
Reviewed by:

John Qiao
John Qiao
Project Engineer
Intertek

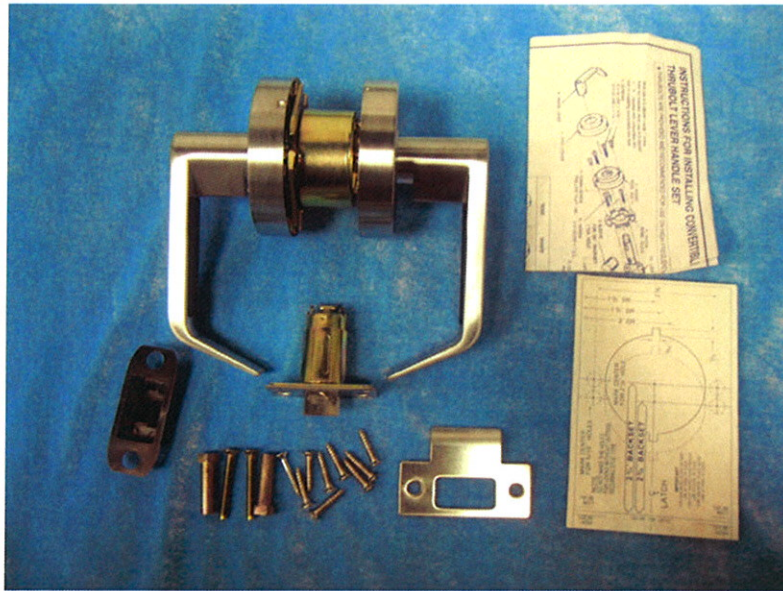
ATTACHMENTS



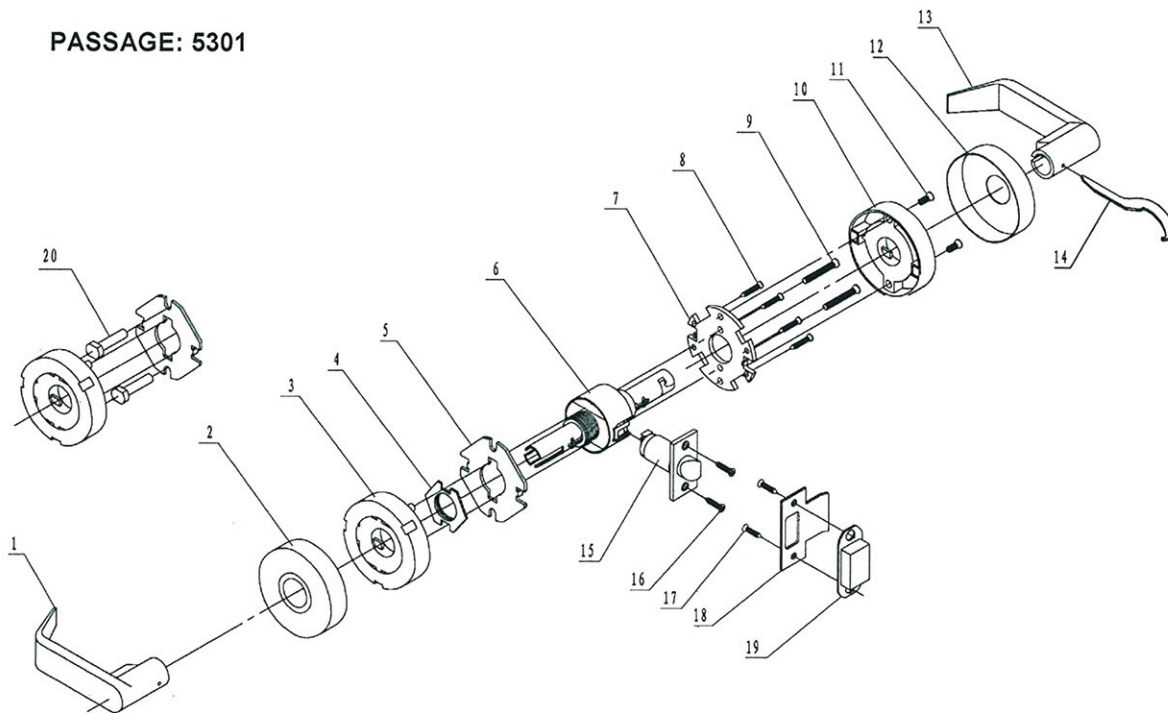
OFFICE: 5304



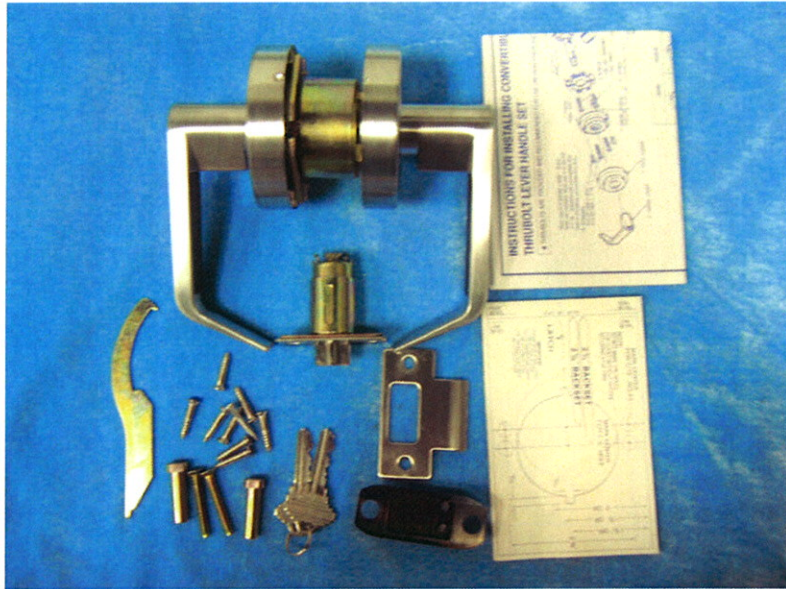
5304 photo and assembly drawing



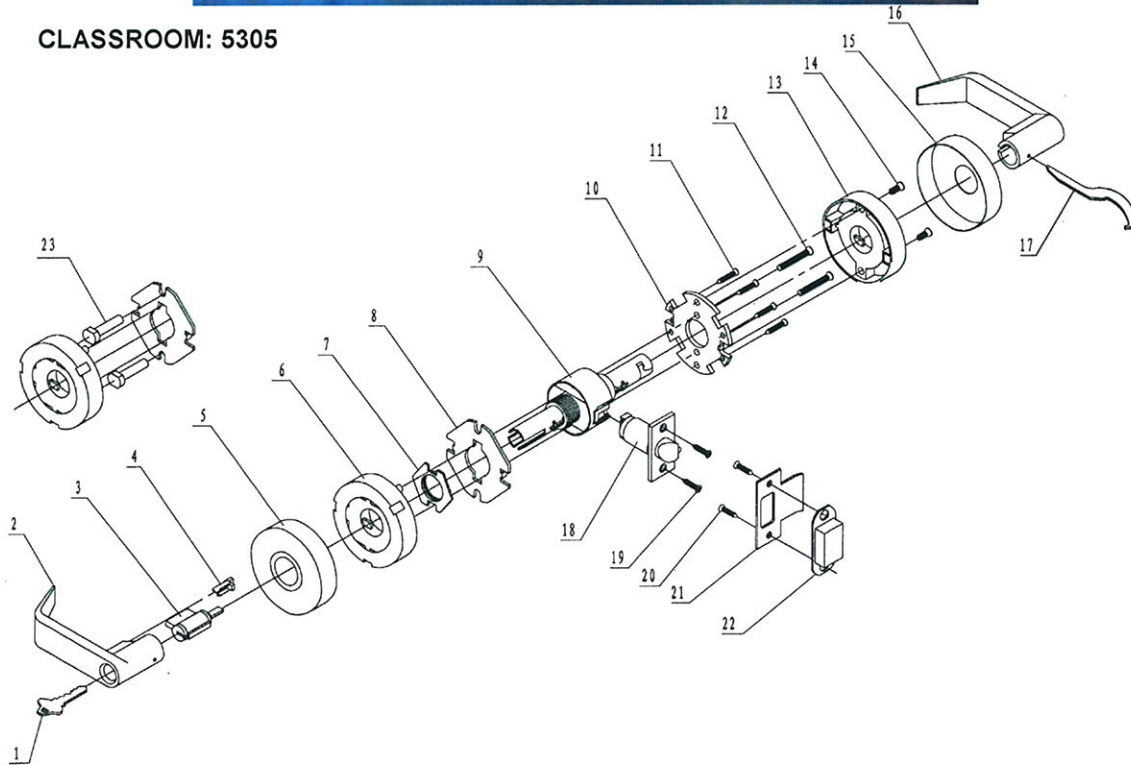
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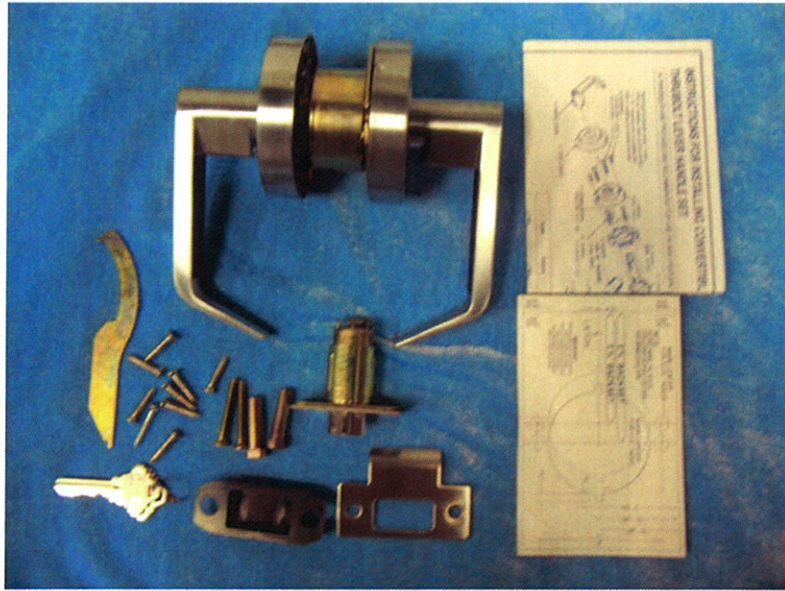
5301 photo and assembly drawing



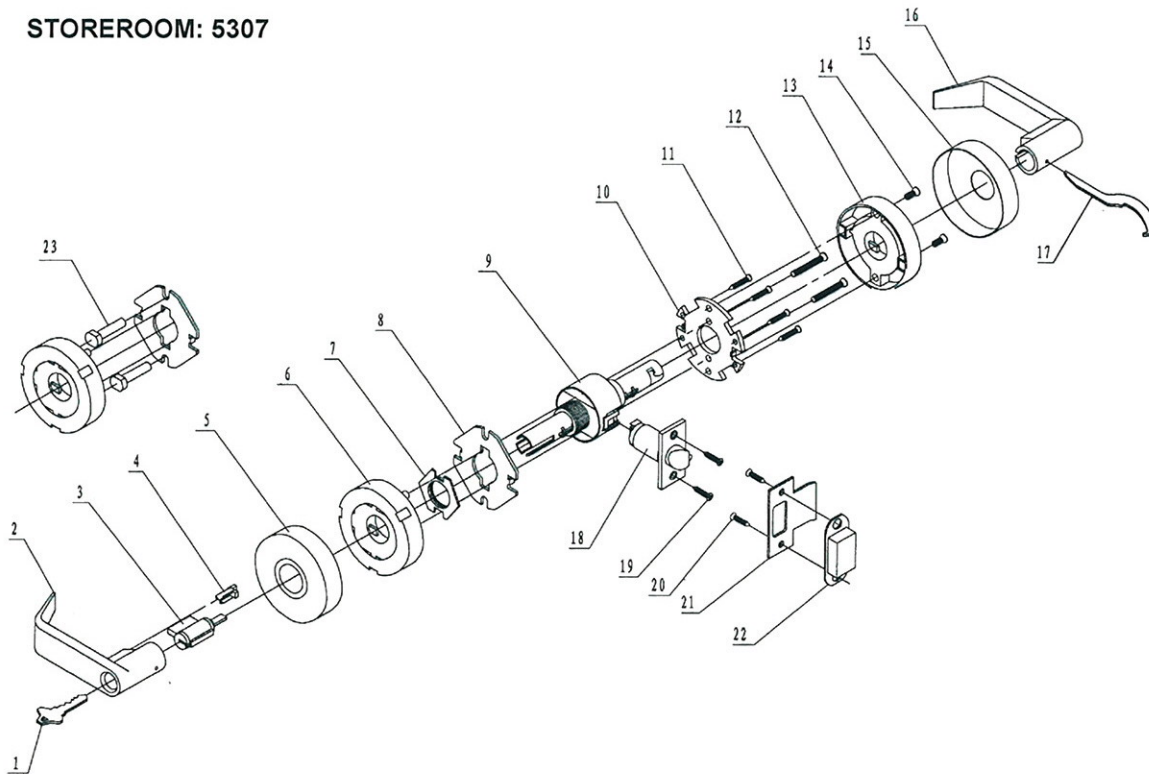
CLASSROOM: 5305



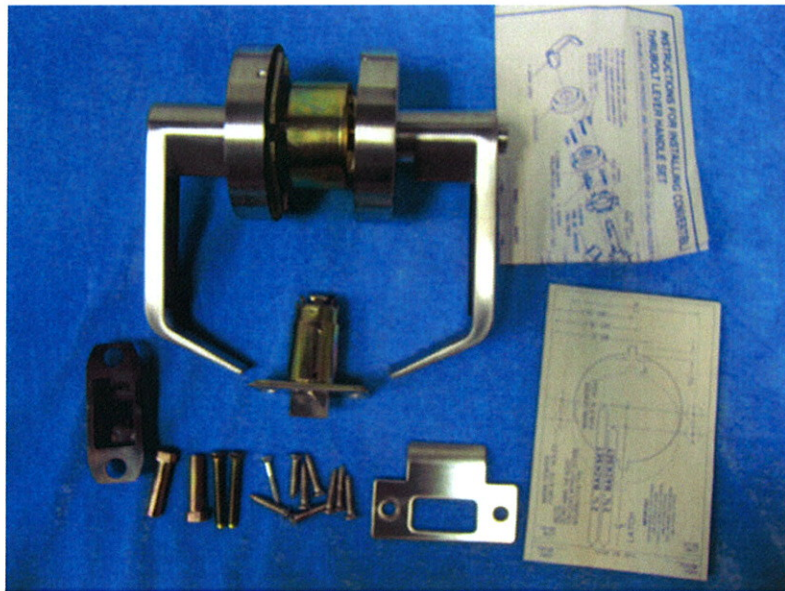
5305 photo and assembly drawing



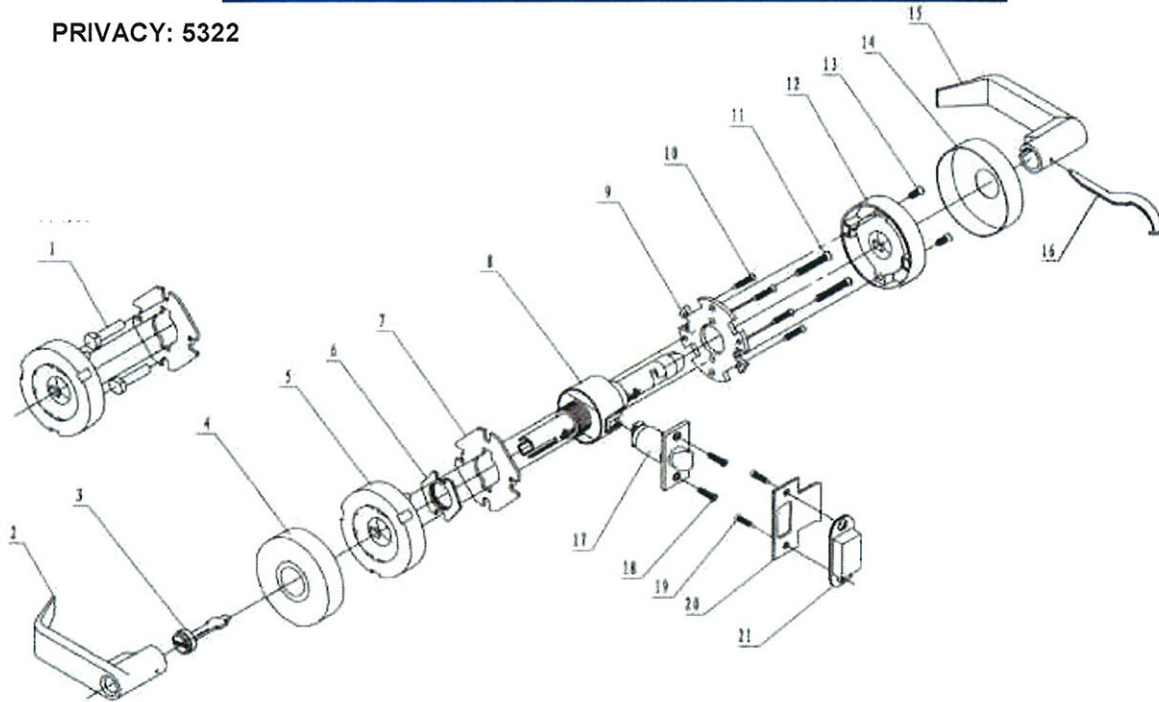
STOREROOM: 5307



5307 photo and assembly drawing



PRIVACY: 5322



5322 photo and assembly drawing

REVISION SUMMARY

DATE	SECTION		SUMMARY	INTERTEK INITIALS	
				ENGINEER	REVIEWER
July 15, 2008	/	/	Initial release	Happy Chen	John

