

Test Verification of Conformity

On the basis of the referenced test report(s), the sample(s) of the below product has been found to comply with the relevant draft standard(s) to the directive(s) listed on this verification at the time the tests were carried out.

The manufacturer may indicate compliance to said directive(s) by signing a DoC himself and applying the CE-marking to products identical to the tested sample(s). In addition, the manufacturer shall file and keep the documentation according to the rules of the applicable directive(s) and shall consider changes of the standard(s) if relevant. Additional requirements may be applicable such as additional directives or local laws.

Applicant Name & Address : GUANGDONG BE-TECH SECURITY SYSTEMS LIMITED
No. 1, Tianhe Rd., Rongbian, Ronggui, Shunde, Foshan,
Guangdong, P.R. China

Product(s) Tested : Electronic Hotel Lock

Ratings and principal characteristics :

2	A	4	0	0	A	1	H	A	1	A	1	0
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Model(s) : 6536M-55A

Brand name : 

Relevant Standard(s) / Specification(s) / Directive(s) : prEN 14846:2003 (E)
89/106/EEC

Verification Issuing Office Name & Address : Same as Legal Entity

Verification/Report Number(s) : GZ08070713-1

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: September 16, 2008



TEST REPORT
EN 14846

Building hardware – Locks and latches –
Electromechanically operated locks and striking plates –
Requirements and test methods

Report No.....: GZ09090708-3R1
 Supersede Report No. GZ09090708-3 dated October 14, 2009

Tested by (name and signature).....: Happy Chen *Happy Chen*

Approved by (name and signature)....: Clark Liu *Clark Liu*

Date of issue: March 26, 2010

Contents.....: Total test report 12 pages including:
 Report text: 8pages
 Appendix A for product photos and drawings: 4 pages

Testing Laboratory name.....: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Address.....: Block E, No.7-2 Guang Dong Software Science Park, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, China

Applicant's name.....: GUANGDONG BE-TECH SECURITY SYSTEMS CO., LTD.

Address.....: No. 17, Keyuan 3 Road, Ronggui, Shunde High-Tech Zone, Foshan, Guangdong, P.R.China

Test specification:

Standard.....: EN 14846:2008 (E)

Non-standard test method.....: N/A

Test Report Form No.....: TTRF EN 14846:2008 (E) A

TTRF Originator.....: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Master TTRF.....: Dated 2009-03

Test item description.....: Electronic Lock

Trade Mark.....: 

Model and/or type reference.....: 6536M-55A

Manufacturer.....: GUANGDONG BE-TECH SECURITY SYSTEMS CO., LTD.

Rating(s).....:

2	A	4	0	0	A	1	0	0
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Copy of marking plate (information/comments):

Marking on the package



Model No.: 6536M-55A

Classification:

2	A	4	0	0	A	1	0	0
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Standard: EN 14846:2008

Summary of testing

The submitted samples were tested and found to **COMPLY WITH** applicable requirements of EN 14846:2008 (E).

Possible test case verdicts:

- test case does not apply to the test object.....: N/A
- test object does meet the requirement: P(Pass)
- test object does not meet the requirement: F(Fail)

Testing

Date of receipt of test item.....: July 30, 2008

Date (s) of performance of tests.....: July 30, 2008 to August 29, 2008

General remarks:

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(see remark #) refers to a remark appended to the report.

(see Appendix #) refers to an appendix appended to the report.

Throughout this report a comma (point) is used as the decimal separator.

When determining the test result, measurement uncertainty has been considered.

General product information:**Function description:**

The deadbolt of the lock was projected by inside turn.

When normal operation: Unlock by correctly card, and then, turn handle to retract latch bolt or both latch bolt and deadbolt.

In the emergency operation, it can be unlocked by key.

Detail "Ratings" information listed as following:

First digit (Category of use): Grade 2- for use by people with some incentive to exercise care but where is some chance of misuse, e.g. office doors.

Second digit (Durability and load on latchbolt): Grade A – 50 000 test cycles; no load on latch bolt.

Third digit (Door mass and closing force): Grade 4- up to 100kg door mass 25N maximum closing force.

Fourth digit (Suitability for use on fire/smoke doors): Grade 0- Not approved for use on fire/smoke door.

Fifth digit (Safety): Grade 0- no safety requirement.

Sixth digit (Corrosion resistance, temperature and humidity) Grade A – Very high corrosion resistance, -10°C to +55°C temperature resistance, Level 1 Humidity resistance.

Seventh digit (Security resistance): Grade 1- Minimum security and no drill resistance.

Eighth digit (Security-electrical function): Grade 0 – No requirement

Ninth digit (Security-electrical manipulation): Grade 0 – No requirement

Amendment:

The original Report No. GZ09090708-3 dated on October 14, 2009 was modified on March 26, 2010 to update applicant name and delete the marking plate.

*****End of page*****

EN 14846			
Clause	Requirement - Test	Result - Remark	Verdict
4	Classification		—
4.1	General		
4.2	The product shall be classified according to the following thirteen digit coding system:		—
4.3	Category of use	2	—
4.4	Durability and load on latchbolt	A	
4.5	Door mass and closing force	4	
4.6	Suitability for use on fire/smoke doors	0	
4.7	Safety	0	
4.8	Corrosion resistance, temperature and humidity	A	
4.9	Security	1	
4.10	Security—electrical function	0	
4.11	Security-electrical manipulation	0	
5	Requirements		—
5.1	General		—
5.1.1	Compatibility between cooperating parts The manufacturer shall state which cooperating parts have been designed to be used in combination..... :	All cooperating parts were included.	P
5.1.2	Dangerous substance Materials in products shall not contain or release any dangerous substances in excess of the maximum levels specified in existing European material standards or any national regulations in the country of intended use..... :	Per manufacturer information, No dangerous substance used	P
5.1.3	Operation time for locking and unlocking Operation time in both directions between the end positions shall not exceed 3 s..... :	Specified by manufacturer: Locking time: 170ms Unlocking time: 170ms	P
5.2	Category of use		—
5.2.1	Resistance to side load on latch The lock shall resist a side load of 3 KN..... :	3 KN	P
5.2.2	Torque to operate deadbolt The torque on the key to operate the deadbolt shall not exceed $M_3 = 0,8 \text{ Nm}$:	The torque on key: 1,3 Nm	P
5.2.3	Strength of normal latch action and stops The latch components and travel limit stops shall resist a torque of 40 Nm..... :	The latch action function correctly after this test. Torque on the follower: 0,4 Nm	P
5.2.4	Torque resistance of lockable follower The lockable follower shall resist a torque of 80 Nm:	Not lockable follower	N/A
5.3	Durability		—

TTRF EN 14846:2008 (E) A

Originator: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

EN 14846			
Clause	Requirement - Test	Result - Remark	Verdict
5.3.2	Durability of latch action		—
5.3.2.1	Durability of latch action mechanically operated The latch action shall function correctly fulfilling the requirements after the cycle test of 50 000 cycles.....:	Tested with electrical operation	P
5.3.2.2	Durability of latch action electrically operated The latch action shall complete the cycles of 50 000 cycles.....:	The latch action function correctly after 50 000 cycles. The torque on the follower was less than 3 Nm The closing force was less than 25 Nm	P
5.3.3	Durability of deadbolt mechanism		P
5.3.3.1	Durability of deadbolt mechanism mechanically operated The latch action shall function correctly fulfilling the requirements after the cycle test of 10 000cycles.....:	The deadbolt action function correctly after 10 000cycles. The torque on key: 1,3Nm The torque on turn: 1,3Nm	P
5.3.2.2	Durability of deadbolt mechanism electrically operated:	Operated deadbolt manually only	N/A
5.4	Door mass and closing force Up to 100 kg door mass and 25 N maximum closing force.....:	Door mass: 100 kg Closing force: 8 N	P
5.5	Suitability for use on fire/ smoke doors.....:	Not approved for use on fire/smoke doors	N/A
5.6	Safety	No safety requirement	N/A
5.7	Corrosion resistance, temperature and humidity requirements		
5.7.1	Corrosion resistance The grade of corrosion resistance achieved shall be included in the classification coding as specified in EN 1670. The corrosion resistance shall be tested in accordance with 6.7.1. NOTE The ability to operate after the test is the only criterion being assessed here; appearance is not covered by this requirement The energy required to operate the deadbolt or latch bolt for the last three shall not exceed the operation energy for normal operations by more than 20 %.::	No defined resistance	N/A
5.7.2	Resistance to a range of temperatures The product shall continue to operate as declared during and after the test. During any individual test, performance shall not drop by more that 25 % below the level achievable at the start of the test. After the test the product shall operate as declared. Grade J temperatures range: -10°C to +55°C.....:	No defined resistance	N/A

EN 14846			
Clause	Requirement - Test	Result - Remark	Verdict
5.7.3	Resistance to cyclic humidity The product shall endure humidity at elevated temperatures with requirement of level 1	No defect was found after this test. Level 1: +40°C with initial relative humidity of 95%.	P
5.8	Security requirements		—
5.8.1	Torque resistance of knob		—
5.8.1.1	Torque resistance of knob or lever handle on bored lock and latch sets	Not applicable for mortice lock	N/A
5.8.1.2	Torque resistance of knob or lever handle on rim night latch	Not applicable for mortice lock	N/A
5.8.2	Requirements for side load		—
5.8.2.1	Resistance to side load on deadbolt The dead bolt shall resist a side load of 1 kN	1kN	P
5.8.2.2	Resistance to drilling and side load on deadbolt	Not applicable for grade 1	N/A
5.8.3	Deadbolt projection The deadbolt shall not less than 10 mm	25,0 mm	P
5.8.4	Requirements for end load on deadbolt		—
5.8.4.1	Resistance to end load The deadbolt shall resist a end load of 1kN and resulting projection shall not less than 8 mm	1KN 24,0 mm	P
5.8.4.2	Resistance to endload with drilling	Not applicable for grade 1	N/A
5.8.5	Resistance to pulling of hook/claw bolt	No hook or claw bolt	N/A
5.8.6	Resistance to disengaging of hook/claw bolt	No hook or claw bolt	N/A
5.8.7	Resistance to forcing of locating device in sliding door lock	Applicable for sliding door lock only	N/A
5.8.8	Resistance to pulling off of knob on bored lock and latch set	Not applicable for mortice lock	N/A
5.8.9	Security requirements of the component locking plate		—
5.8.9.1	Resistance to end load on box protected locking plate:	No protecting box	N/A
5.8.9.2	Resistance to side load on locking plate The locking plate shall resist a side load of 5kN	1000 N No security function lost	P
5.8.9.3	Resistance to pulling on locking plate	Applicable for lock with hook bolt only	N/A
5.8.9.4	Resistance to lifting force on locking plate	Applicable for sliding door lock only	N/A

EN 14846			
Clause	Requirement - Test	Result - Remark	Verdict
5.9	<p>Security – Electrical function – status indication</p> <p>There shall be an audio or visual signal from the lock that can be used as an indication that the bolt is fully thrown and deadlocked or, in the case of electric strikes, that movement of the electric strike is blocked.</p> <p>The security of the electrical function shall be tested according to 6.9.</p>	Grade 0 No requirement	N/A
5.10	Security – Electrical manipulation		—
5.10.1	General		—
5.10.2	<p>Voltage drop protection</p> <p>When tested in accordance with 6.10.1 with supply voltage dips and short interruptions, the locking mechanism and its operational parts shall maintain its status</p>	Grade 0 No requirement	N/A
5.10.3	<p>Protection against the effects of cutting cables</p> <p>When tested in accordance with 6.10.2 by cutting or short-circuiting of all the wires of one cable linking the electromechanical lock or strike to other units, the locking mechanism and its operational parts shall maintain its status. This requirement applies to any cable linking the electromechanical lock or strike to other units</p>	Grade 0 No requirement	N/A
5.10.4	<p>Protection against the effects of wire manipulation</p> <p>When tested in accordance with 6.10.3 by manipulating in the form of an electrical or magnetic pulse (or sequence of pulses) applied to any wires linking the electromechanical lock or strike to other units, the locking mechanism and its operational parts shall maintain its status</p>	Grade 0 No requirement	N/A
5.10.5	<p>Resistance to electromagnetic manipulation</p> <p>When tested in accordance with 6.10.4, by strong electromagnetic fields, the locking mechanism and its operational parts shall maintain its status</p>	Grade 0 No requirement	N/A
5.10.6	<p>Resistance to electrostatic discharge</p> <p>When tested in accordance with 6.10.5, with electrostatic discharges the locking mechanism and its operational parts shall maintain its status</p>	Grade 0 No requirement	N/A
5.10.7	<p>Resistance to electrostatic manipulation</p> <p>When tested in accordance with 6.10.6, with a minimum of 200 electrostatic discharges at the energy levels specified in EN 61000-4-2:1995, level 4, except that the discharge frequency shall not exceed 10 Hz, the locking mechanics and its operational parts shall maintain its status</p>	Grade 0 No requirement	N/A
6	Test methods		—
7	Marking		—

EN 14846			
Clause	Requirement - Test	Result - Remark	Verdict
	<p>The following information shall be quoted in the labeling, packaging or literature.</p> <p>a) manufacturer's name or trademark or other means of positive identification;</p> <p>b) clear product identification</p> <p>c) classification according to clause 4 of this European Standard;</p> <p>d) number and date of this European Standard.</p>	<p>Complied with this requirements</p> <p>See 'Marking on the package'</p>	P
8	Evaluation of conformity		—
8.1	<p>Initial type test</p> <p>Samples, representative of the series, selected in accordance with annex C, shall be subjected to the full sequence of tests described in clause 6, and where relevant, to annex A.....:</p>	<p>The samples were tested for applicable item of clause 6.</p>	P
8.2	<p>Factory production control</p> <p>The manufacturer shall document, operate and maintain an adequate factory production control system. The factory production control system shall achieve an appropriate level of confidence in the conformity of the product.....:</p>	<p>The manufacturer was qualified according to ISO 9001, was deemed to satisfy FPC requirement</p>	P
8.3	<p>Further testing of samples</p> <p>At intervals of not more than six months, sample taken from finished product stock, selected in accordance with annex C, and representative of the series, shall be subjected to the full sequence of tests described in clause 6.....:</p>	<p>Not intended included in this report</p>	—

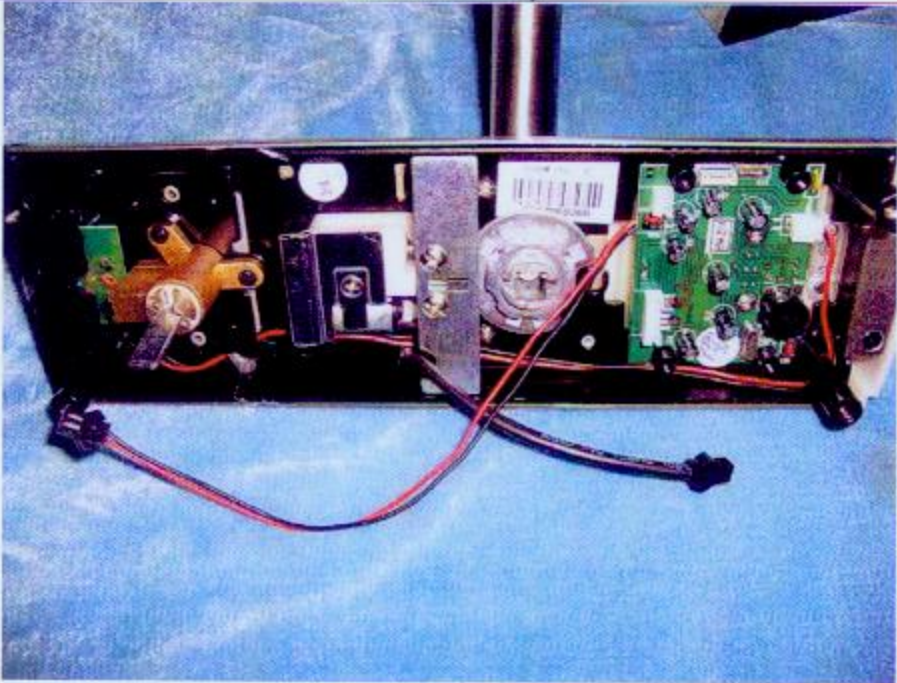
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Appendix A

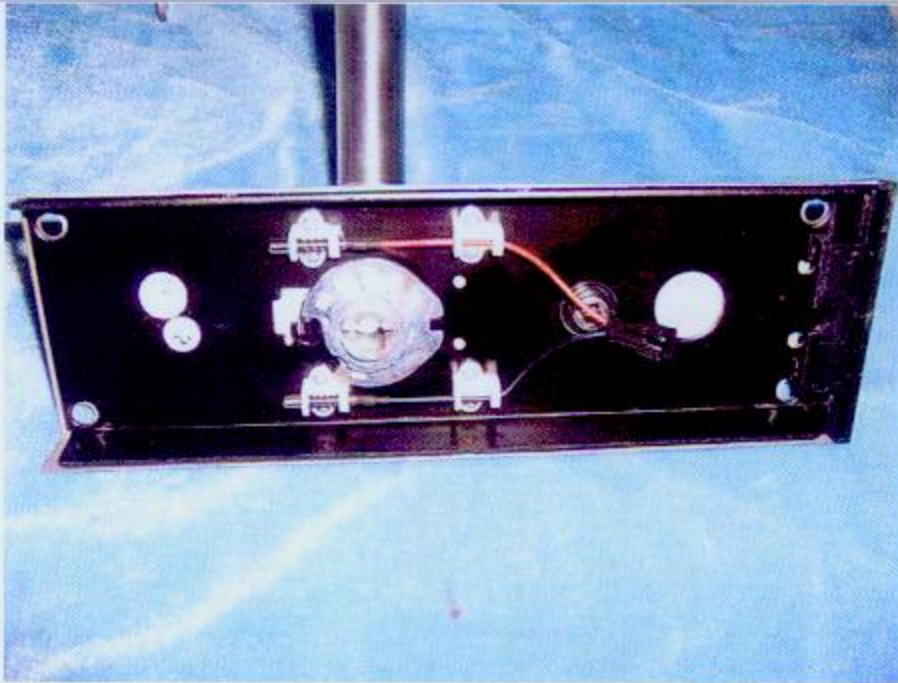
Product photos and drawings



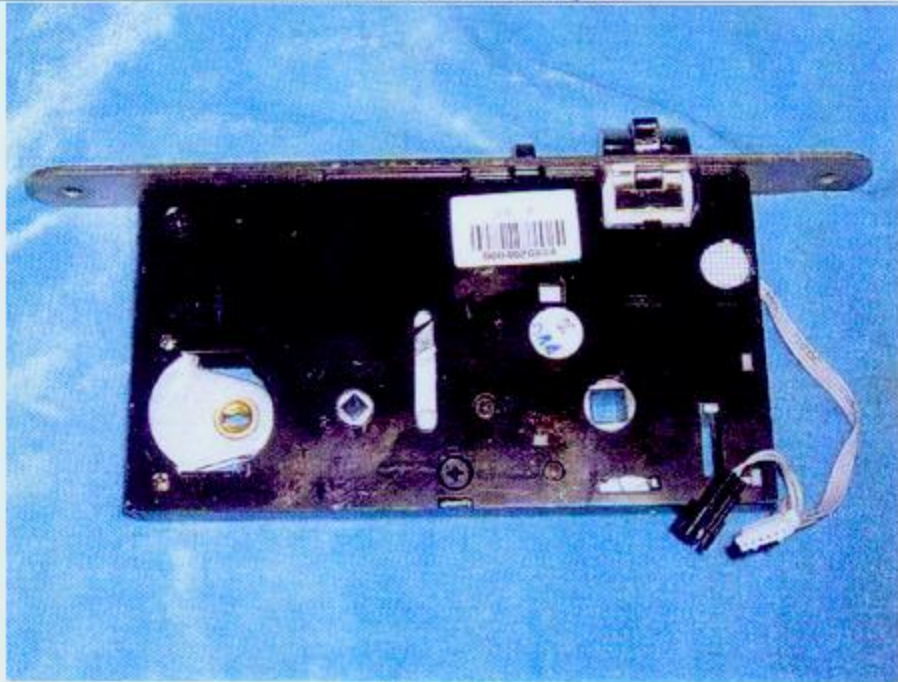
A1. Disassembly



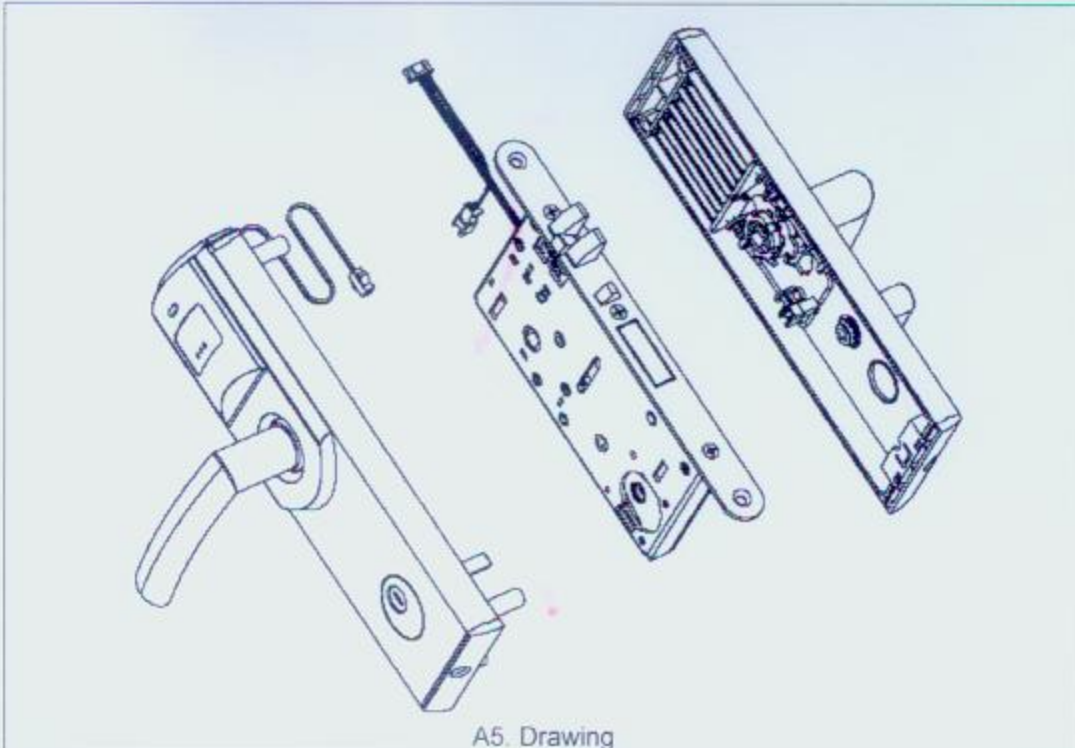
A2. Inner view of external plate



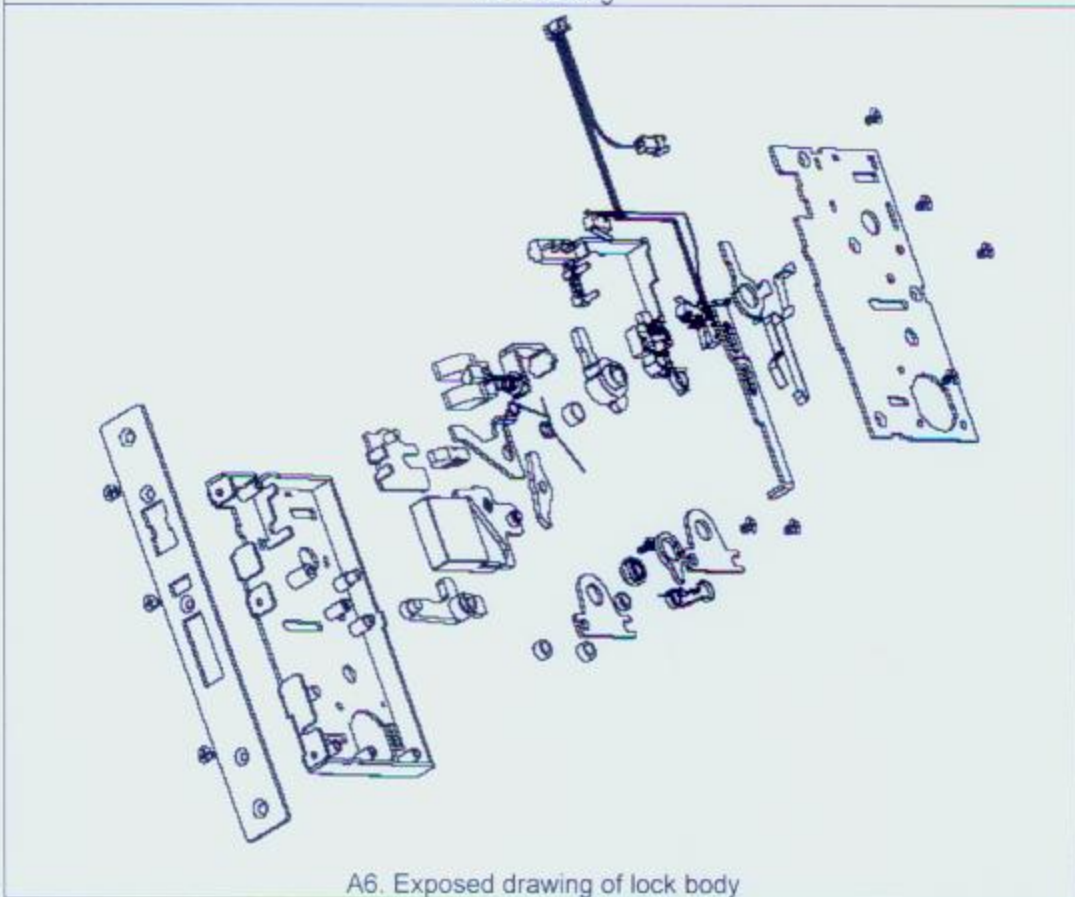
A3. Inner view of internal plate



A4. Lock Body



A5. Drawing



A6. Exposed drawing of lock body

