ONETECH

시 험 성 적 서

(TEST REPORT)

성적서 번호: R157R-K009
(Report No.)
페이지(Page of): (1)/(총 9)

KOREA LABORATORY ACCREDITATION SCHEME KOLAS TESTING NO. 85

1. 의뢰자 (Client)
-. 기 관 명 (Name): YongSung Electric Co., Ltd
-. 주　소 (Address): 194, Baekgogae-gil, gonjiam-eup, Gwangju-si Gyeonggi-do, 464-871, Korea
-. 의뢰일자 (Date of Receipt): 2015. 06. 16.
-. AGR No.: A156A-125

2. 시험성적서의 용도 (Use of Test Report): Quality Control

3. 시험대상품목 (Product): PILOT LAMP
-. 모델명 (Type of Designation): YS PL3　　-. 제조번호 (Serial No.): N/A

4. 시험기간 (Date of Test): 2015. 6. 30. ~ 07. 09.

5. 시험방법 (Test Method Used): KS C IEC 60529:2006 / IP56

6. 시험환경 (Testing Environment)
○ 온도(Temperature): (27 ± 2) ℃,　　○ 습도(Relative Humidity): (47 ± 3) % R.H.

7. 시험결과 (Test Results): Refer to attached test report

8. 측정불확도 (Uncertainty of Measurement): N/A

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확 인 (Affirmation)	시험자 (Tested by) 성 명 Dong-Kyun Park (서명) (Name) (Signature)	승인자(Approved by) 기술책임자(Technical Manager) 성 명 Jin-Won Seo (서명) (Name) (Signature)

2015. 07. 14.

한국인정기구 인정　　㈜원텍 대표이사
(The president of ONETECH Corp.)

-. 위 성적서는 국제시험기관인정협력체(International Laboratory Accreditation Cooperation) 상호인정협정(Mutual Recognition Arrangement)에 서명한 한국인정기구(KOLAS)로부터 공인받은 분야에 대한 시험결과입니다.
The above testing certificate is the accredited test result by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

경기도 광주시 초월읍 진새골길 43-14 (TEL:+82-31-799-9500 FAX:+82-31-799-9599)
ONETECH Corp. 43-14, Jinsaegol-gil, Chowol-eup, Gwangju-si, Gyeonggi-do 464-862 Korea

CONTENTS

PAGE

1. CLIENT AND MANUFACTURER INFORMATION 3

2. TEST SUMMARY 3

2.1 ADDITIONS, DEVIATIONS, EXCLUSIONS FROM STANDARDS 3

3. EUT (EQUIPMENT UNDER TEST) 3

3.1 IDENTIFICATION OF EUT 3

4. DEGREES OF PROTECTION PROVIDED BY ENCLOSURES TEST (IP56) 4

4.1 ENVIRONMENTAL CONDITION 4

4.2 TEST EQUIPMENT USED 4

4.3 TEST METHOD 4

4.4 TEST RESULT 5

APPENDIX I - PHOTO OF EUT 6

APPENDIX II - PHOTO OF IP56 TEST 7

APPENDIX III - PHOTO OF INSIDE AFTER IP56 TEST 8

APPENDIX IV - DRAWING 9

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1. CLIENT AND MANUFACTURER INFORMATION

-. Applicant : YongSung Electric Co., Ltd

-. Address : 194, Baekgogae-gil, gonjiam-eup, Gwangju-si Gyeonggi-do, 464-871, Korea

-. Manufacturer : YongSung Electric Co., Ltd

-. Address : 194, Baekgogae-gil, gonjiam-eup, Gwangju-si Gyeonggi-do, 464-871, Korea

-. Name of contact : Sung Myoung-Ho / skylii78@hanmail.net

2. TEST SUMMARY

Standards	Test Items	Results
KS C IEC 60529:2006 / IP56	Degrees of protection provided by enclosures Test	PASS

2.1 Additions, deviations, exclusions from standards

No additions, deviations or exclusions have been made from standard.

3. EUT (Equipment Under Test)

3.1 Identification of EUT

-. Equipment : PILOT LAMP

-. Type/model : YS PL3

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4. DEGREES OF PROTECTION PROVIDED BY ENCLOSURES TEST (IP56)

The **Degrees of protection provided by enclosures Test (IP56)** was performed at ONETECH Corp.

Date: June 30 ~ July 09, 2015

4.1 Environmental condition

Ambient temperature	(27 ± 2) ℃
Relative humidity	(47 ± 3) % R.H.

4.2 Test equipment used

	Model Number	Manufacturer	Description	Serial Number
■	SOC-300DSEM	SCM	DUST CHAMBER	SOC-11-43-10DSEM
■	-	DAEKYUNG	JET NOZZLE SET(12.5 mm)	-

4.3 Test method

4.3.1 Dust Test

Items		Descriptions
1st Characteristic Numbers		IP5X
Enclosures Category		■ Category 1 □ Category 2 □ Category 1 and Category 2
Test Condition		-Wire diameter: 50 ㎛ -Width between wires: 75 ㎛ -Amount of talcum powder of the test chamber: 2 kg/m^3
Method	Category 1	■If an extraction rate of 40 to 60 volumes per hour is obtained the duration of the test is 2 h. □If, with a maximum depression of 2 kPa(20 mbar), the extraction rate is less than 40 volumes per hou, the test is continued until 80 volumes have been drawn, or a period of 8 h has elapsed.
	Category 2	□The enclosure under test is supported in its normal operating position inside the test chamber, but is not connected to a vacuum pump. Any drain-hole normally open shall be left open for the duration of the test. The test shall be continued for a period of 8 h.
Acceptance Conditions		The protection is satisfactory if, on inspection, talcum powder has not accumulated in a quantity or location such that, as with any other kind of dust, it could interfere with the correct operation of the equipment or impair safety. Except for special cases to be clearly specified in the relevant product standard, no dust shall deposit where it could lead to tracking along the creepage distance.

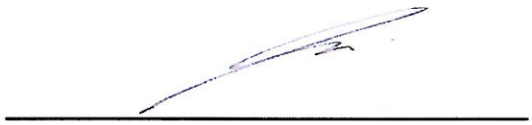
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4.3.2 Water Test

Items	Descriptions
2nd Characteristic Numbers	IPX6
Test Condition	-Internal diameter of the nozzle: 12.5 mm -Delivery rate: 100 l/min ± 5 % -Distance grom nozzle to enclosure surface: Between 2.5 m & 3 m -The duration of the test: 3 min
Acceptance Conditions	-In general, if any water has entered, it shall not; -Be sufficient to interfere with the correct operation of the equipment or impair safety. -Deposit on insulation parts where it could lead to tracking along the creepage distances. -Reach live parts or windings not designed to operate when wet. -Accumulate near the cable end or enter the cable if any.

4.4 Test result

Item	IP Code	Result
YS PL3	IP56	Pass



Tested by: Dong Kyun Park / Test Engineer

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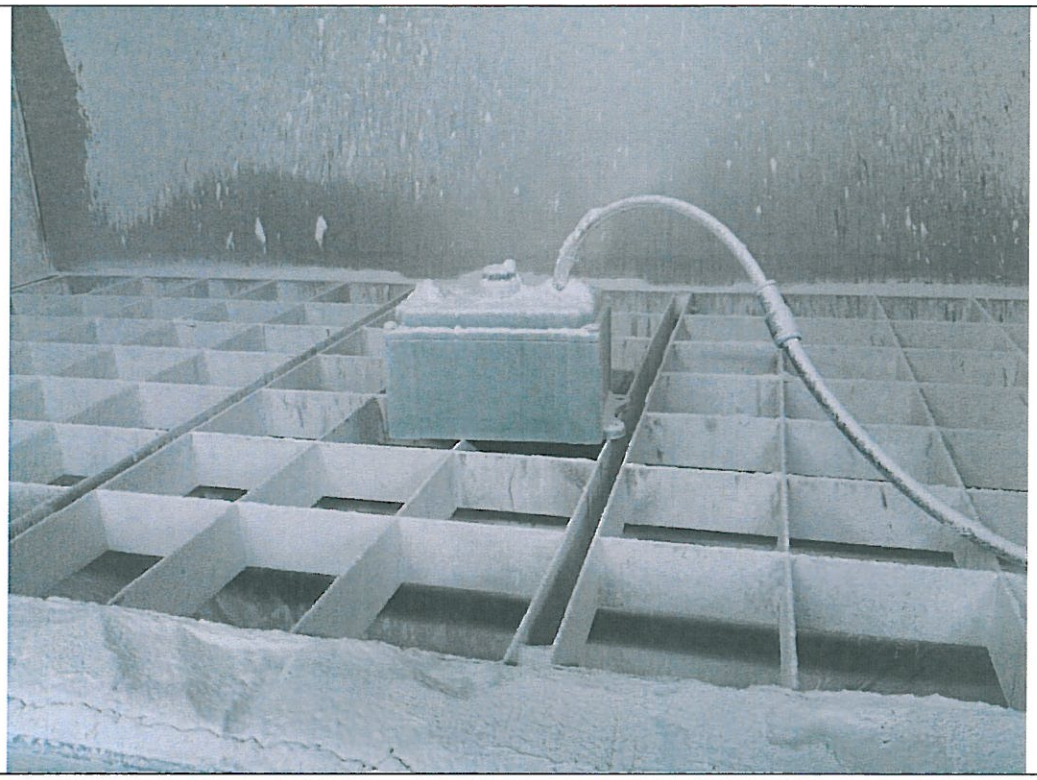
APPENDIX I - PHOTO OF EUT



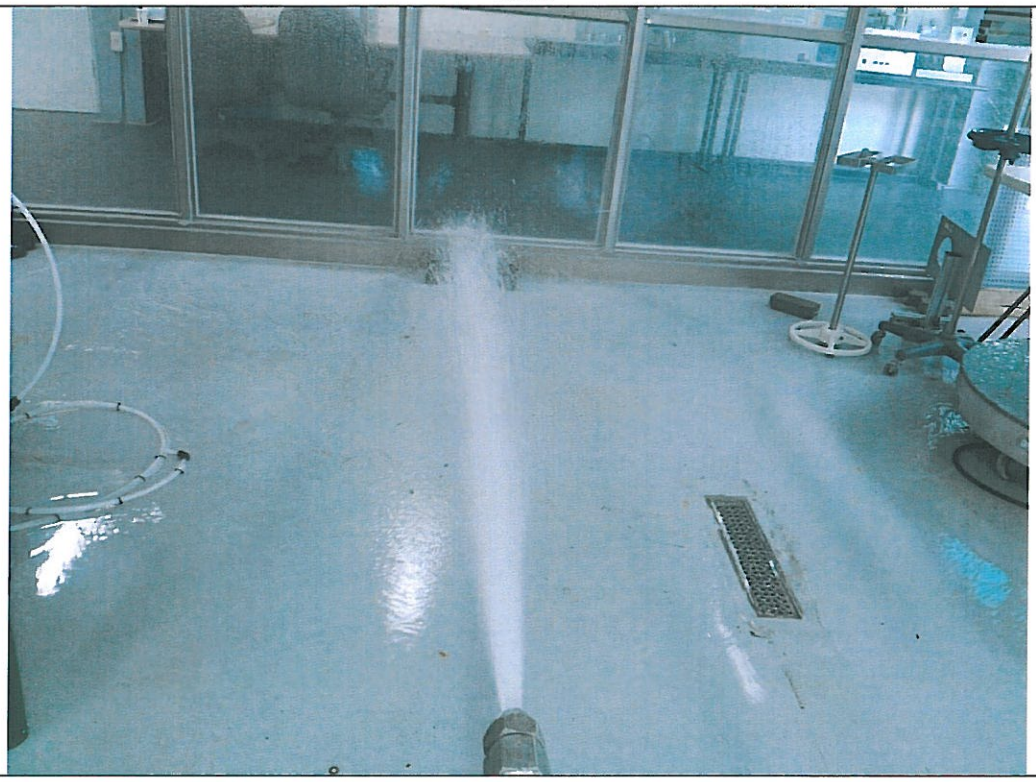


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APPENDIX II - PHOTO OF IP56 TEST



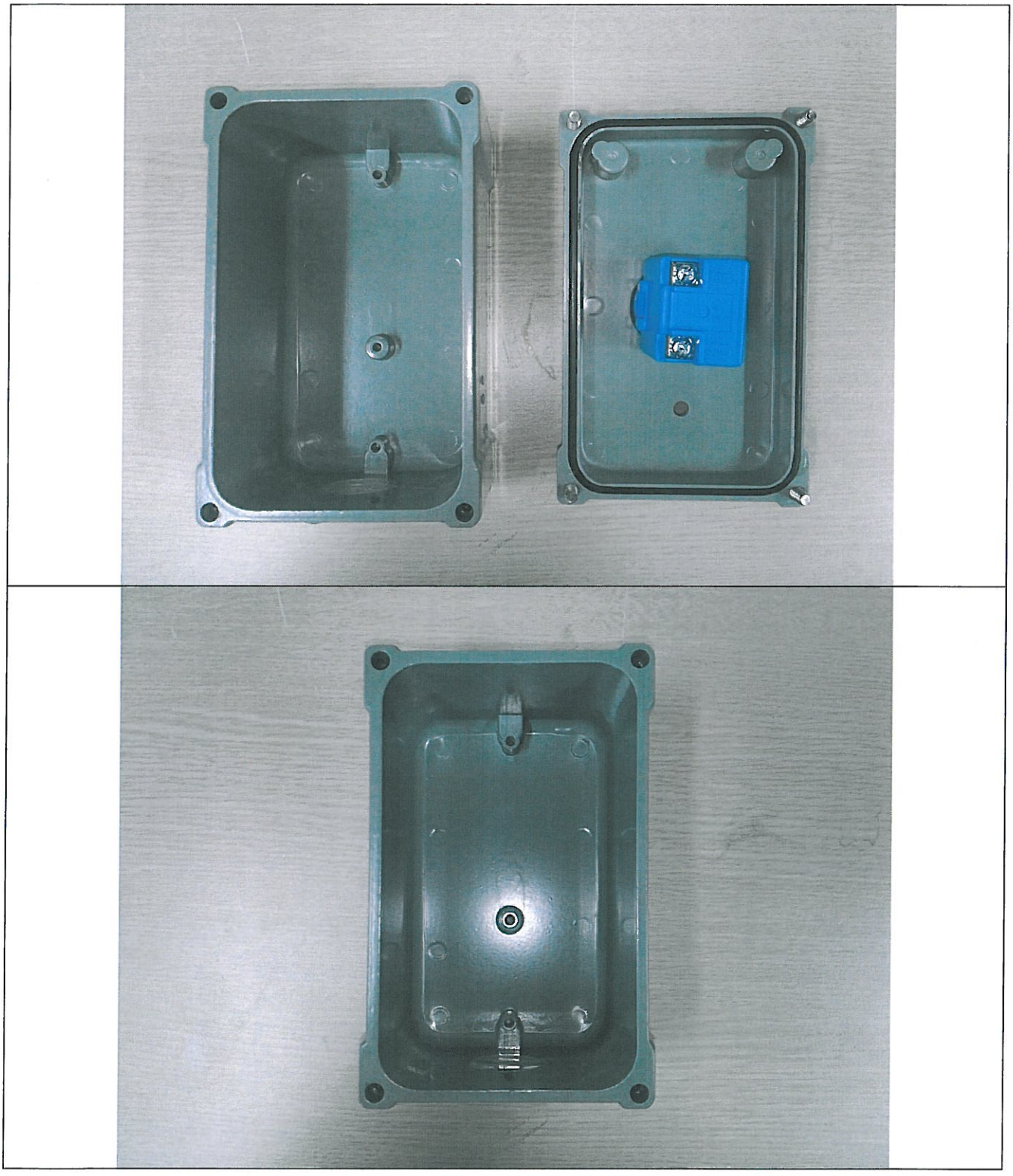
IP5X



IPX6

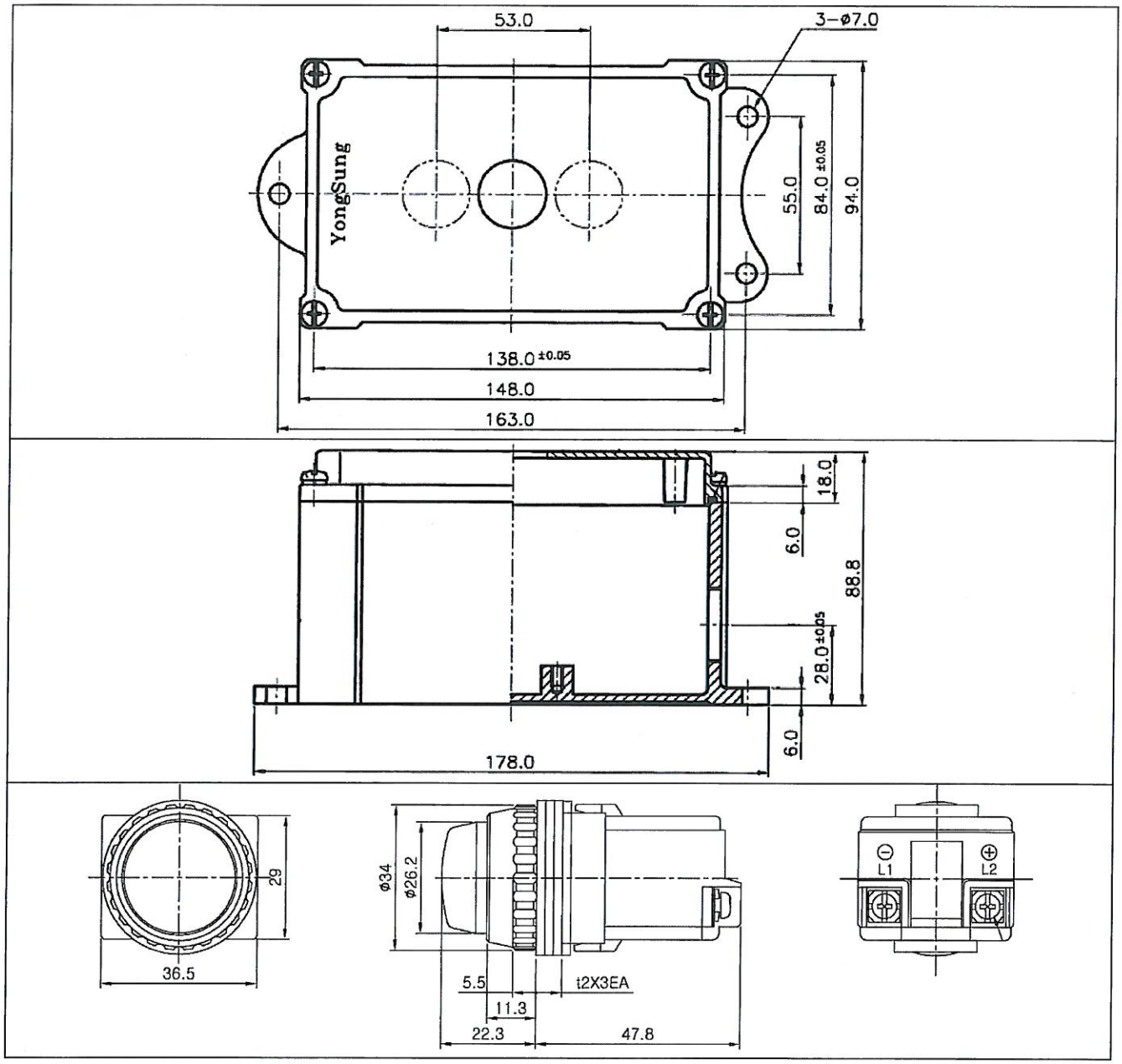
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APPENDIX III- PHOTO OF INSIDE AFTER IP56 TEST



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APPENDIX Ⅳ- DRAWING



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