



新普科技股份有限公司
 新世電子(常熟)有限公司
 新普科技(重慶)有限公司
 華普電子(常熟)有限公司

Control Number: SASU-2010002

Rechargeable Li-ion Battery UN38.3 Test Report

Recommendations on the TRANSPORT OF DANGEROUS GOODS

(Manual of Tests and Criteria, Sixth revised edition, Amend 1)

Customer: ASUS

Model: C31N2005

Rating/ Mass: 11.55V, 50Wh/ 187 (g)

Issue date: 2020/10/30

Approved By	Checked By	Prepared By
Project Manager	Authorized Signatory	Test Engineer

●	SIMPLO TECHNOLOGY CO., LTD. ADD : No. 471 Pa Teh Rd, Sec 2 Hu Kou, Hsinchu Hsien, 303 Taiwan TEL: +886-3-5695920 FAX: +886-3-5695931 
	SIMPLO TECHNOLOGY (CHANGSHU) INC. ADD : No.888 Dongnan Avenue, Changshu New & Hi-Tech Industrial Development Zone, Changshu, Jiangsu, China TEL: +86-512-52302255 FAX: +86-512-52302277 
	SIMPLO TECHNOLOGY (CHONGQING) INC. ADD : No.2 Zongbao Avenue, Shapingba District, ChongQing, China TEL: +86-23-61718899 FAX: +86-23-61210488 
	HUAPU TECHNOLOGY (CHANGSHU) INC. ADD : No.888 Dongnan Avenue, Changshu New & Hi-Tech Industrial Development Zone, Changshu, Jiangsu, China TEL: +86-512-52302255 FAX: +86-512-52302277 

Email : Test_Lab@simplo.com.tw

Website : <http://www.simplo.com.tw/>

Form No. : W11-002-B05

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Control Number: SASU-2010002

1. Purpose of the Test :

To test each cell/battery is of the type proved to meet the requirements in United Nations Recommendations on the TRANSPORT OF DANGEROUS GOODS, Manual of Tests and Criteria, Sixth revised edition, Amend 1, Section 38.3.

2. Test Result :

Test results of the UN Recommendations on the Transport of Dangerous Goods

No.	Test Item	Test results
T.1	Altitude simulation	PASS
T.2	Thermal test	PASS
T.3	Vibration test	PASS
T.4	Shock test	PASS
T.5	External short circuit	PASS
T.6	Impact, Crush test	PASS
T.7	Overcharge	PASS
T.8	Forced discharge	PASS

3. Test Lab: Email : Test_Lab@simplo.com.tw Website : <http://www.simplo.com.tw/>

●	SIMPLO (Taiwan) Laboratory ADD : No. 471 Pa Teh Rd, Sec 2 Hu Kou, Hsinchu Hsien, 303 Taiwan TEL: +886-3-5695920 FAX: +886-3-5695931
	SIMPLO (CHANGSHU) Laboratory ADD : No.888 Dongnan Avenue, Changshu New & Hi-Tech Industrial Development Zone, Changshu, Jiangsu, China TEL: +86-512-52302255 FAX: +86-512-52302277
	SIMPLO (CHONGQING) Laboratory. ADD : No.2 Zongbao Avenue, Shapingba District, ChongQing, China TEL: +86-23-61718899 FAX: +86-23-61210488

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Control Number: SASU-2010002

4. Product manufacturer : Email : Test_Lab@simplo.com.tw Website : <http://www.simplo.com.tw/>

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5. Test Quantity :

- 5.1 Four batteries, at first cycle, in fully charged states. (For T.1~T.5)
- 5.2 Four batteries, after 25 cycles ending in fully charged states. (For T.1~T.5)
- 5.3 Five component cells, at first cycle at 50% of the design rated capacity. (For T.6)
- 5.4 Five component cells, after 25 cycles at 50% of the design rated capacity. (For T.6)
- 5.5 Four batteries, at first cycle, in fully charged states. (For T.7)
- 5.6 Four batteries, after 25 cycles ending in fully charged states. (For T.7)
- 5.7 Ten component cells, at first cycle in fully discharge states. (For T.8)
- 5.8 Ten component cells, after 25 cycles ending in fully discharged states. (For T.8)

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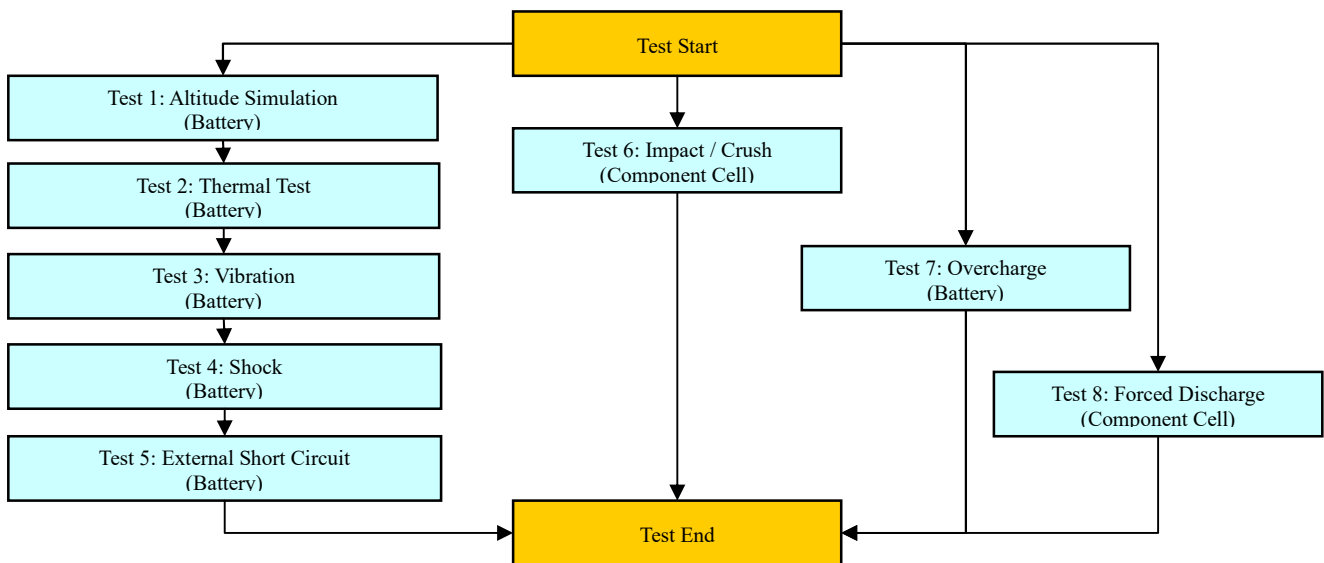
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6. Test Procedure :

6.1 All detailed test procedures must be based on United Nations Recommendations on the TRANSPORT OF DANGEROUS GOODS, Manual of Tests and Criteria, Sixth revised edition, Amend 1, Section 38.3.

6.2 Test flow shall be followed as below.



Conclusion: The samples had passed the test items of UN38.3.

7. Comment : NA



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8. Test Equipment :

SMP SIMPLO TECHNOLOGY CO., LTD.

Address : No.471, Sec.2, Pa Teh Rd., Hu Kou, Hsin Chu Hsien 303, Taiwan

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Revised Date: 2020-10-30

Test Instruments Reference List								
Used	Instrument ID	Instrument Name	Type	Range of use	Manufacturer	Calibration Date_Last	Calibration Date_Next	Remarks
	Pretest							
V	ML-761	Learning	715C	0~18V 0~8A	SMP	2020/2/19	2021/3/19	
V	ML-762	Learning	715C	0~18V 0~8A	SMP	2020/1/2	2021/2/2	
V	ML-763	Learning	715C	0~18V 0~8A	SMP	2020/2/19	2021/3/19	
V	ML-764	Learning	715C	0~18V 0~8A	SMP	2020/1/2	2021/2/2	
	ML-925	Learning	750C8	0~60V 0~30A	SMP	2020/1/2	2021/2/2	
	T.1 Altitude Simulation							
V	ML-522	Altitude	SVT-120	kPa:30~90	HSIN JIANG	2020/7/1	2021/8/1	
V	ML-257	Multimeter	34401A	Note 1	Agilent	2020/7/23	2021/8/23	
V	ML-494	Electronic Balance	XS1220M-SCS	1-1220 gf	PRECISA	2020/7/1	2021/8/1	
	ML-523	Electronic Balance	MTW-30K	30*0.005kg		2020/8/11	2021/9/11	
V	ML-550	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2020/8/6	2021/9/6	
V	ML-964	Barometric Air Pressure	MP55	750 to 1100 mbar	KIMO	2020/7/3	2021/8/3	
	T.2 Thermal Test							
V	ML-789	Thermal Shock	GTST-080-65-AW	T:-40 to 100°C	GF	2020/7/2	2021/8/2	
V	ML-257	Multimeter	34401A	note 1	Agilent	2020/7/23	2021/8/23	
V	ML-494	Electronic Balance	XS1220M-SCS	1-1220 gf	PRECISA	2020/7/1	2021/8/1	
	ML-523	Electronic Balance	MTW-30K	30*0.005kg		2020/8/11	2021/9/11	
V	ML-551	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2020/8/6	2021/9/6	
	T.3 Vibration							
V	ML-233	Vibration	KD-9636-EM-300F2K-30N80	F:5~2000Hz G:0.2~20G	King Design	2020/8/3	2021/9/3	
V	ML-257	Multimeter	34401A	note 1	Agilent	2020/7/23	2021/8/23	
V	ML-494	Electronic Balance	XS1220M-SCS	1-1220 gf	PRECISA	2020/7/1	2021/8/1	
	ML-523	Electronic Balance	MTW-30K	30*0.005kg		2020/8/11	2021/9/11	
V	ML-552	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2020/8/6	2021/9/6	
	T.4 Shock							
V	ML-056	Shock	DP-1200-25	G:10~600G	King Design	2020/8/3	2021/9/3	
V	ML-257	Multimeter	34401A	note 1	Agilent	2020/7/23	2021/8/23	
V	ML-494	Electronic Balance	XS1220M-SCS	1-1220 gf	PRECISA	2020/7/1	2021/8/1	
	ML-523	Electronic Balance	MTW-30K	30*0.005kg		2020/8/11	2021/9/11	
V	ML-551	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2020/8/6	2021/9/6	
	T.5 External Short Circuit							
V	ML-894	Battery Hittester	BT3562	1mΩ ~ 30kΩ	HIOKI	2020/6/9	2021/7/9	
V	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200°C	Yokogawa	2020/8/11	2021/9/11	
V	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200°C	Yokogawa	2020/8/11	2021/9/11	
V	ML-521	Oven	9031	30~80 °C	YEOW LONG	2020/8/11	2021/9/11	
V	ML-952	Data Logger	313	15~35 °C; 30~80 %RH	CENTER	2020/7/2	2021/8/2	
	T.6 Impact / Crush							
V	ML-458	Data Acquisition	XL122-D	1-100 Vdc, -50 to 150°C	Yokogawa	2020/6/3	2021/7/3	
	ML-076	Impact Tester			JYI SHENG	2020/1/6	2021/2/6	
	ML-553	Crush Tester	BCT-01		Simplo	2020/4/8	2021/5/8	
V	ML-866	Crush Tester	M0654		JYI SHENG	2020/4/8	2021/5/8	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200°C	Yokogawa	2020/8/11	2021/9/11	

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Address : No.471, Sec.2, Pa Teh Rd., Hu Kou, Hsin Chu Hsien 303, Taiwan

TEL: +886-3-5695920; FAX: +886-3-5695931

Revised Date: 2020-10-30

Test Instruments Reference List								
Used	Instrument ID	Instrument Name	Type	Range of use	Manufacturer	Calibration Date Last	Calibration Date Next	Remarks
	T.7 Overcharge							
	ML-482	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-483	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-484	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-486	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-487	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2020/5/7	2021/6/7	
V	ML-952	Data Logger	313	15~35 ℃; 30~80 %RH	CENTER	2020/7/2	2021/8/2	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2020/8/11	2021/9/11	
	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2020/8/11	2021/9/11	
V	ML-918	Overcharge & Forced discharge tester	T901	3~30 Vdc, Charge: 0.05~20A Discharge: 0.02~10A	SMP	2020/5/7	2021/6/7	
	T.8 Forced Discharge							
	ML-132	Electronic Load	3311C	60V,60A, 300W	Prodigit	2020/2/20	2021/3/20	
	ML-133	Electronic Load	3311C	60V,60A, 300W	Prodigit	2020/2/20	2021/3/20	
	ML-136	Electronic Load	3311C	60V,60A, 300W	Prodigit	2020/2/20	2021/3/20	
	ML-192	Electronic Load	3311C	60V,60A, 300W	Prodigit	2020/2/20	2021/3/20	
	ML-269	Electronic Load	3311C	60V,60A, 300W	Prodigit	2020/2/20	2021/3/20	
	ML-532	DC Electronic Load	33511-01	120V, 240A, 3600W	Prodigit	2020/7/1	2021/8/1	
	ML-482	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-483	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-484	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-486	Programmable DC Source	DS10014	1-100Vdc, 0.3-14.4A	MOTECH	2020/5/7	2021/6/7	
	ML-487	Programmable DC Source	DS6024	1-60 Vdc, 0.3-24A	MOTECH	2020/5/7	2021/6/7	
V	ML-952	Data Logger	313	15~35 ℃; 30~80 %RH	CENTER	2020/7/2	2021/8/2	
	ML-459	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2020/8/11	2021/9/11	
	ML-460	Data Acquisition	MX100-E-1D	1-100 Vdc, -50 to 200℃	Yokogawa	2020/8/11	2021/9/11	
V	ML-918	Overcharge & Forced discharge tester	T901	3~30 Vdc, Charge: 0.05~20A Discharge: 0.02~10A	SMP	2020/5/7	2021/6/7	
Note 1: DC Voltage: 0.1-1000V; AC Voltage: 0.5-700V at 60Hz, 1kHz; Resistance: 10Ω-10MΩ; DC Current: 0.1mA-3A; AC Current: 0.01-3A at 60Hz, 0.01-1A, at 1kHz.								

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9. T.1~T.8 Detail Reports:

UN 38.3 Test Datasheet
UN38.3/ST/SG/AC.10/11/Rev.6/Amend.1

Control Number: SASU-2010002	Customer: ASUS	Model Name: C31N2005	SMP Project Name: CX9400
Pack P/N: 906QA275H (B)	Configuration: 3S1P	Test Duration: 2020/10/13~2020/10/30	Reviewer: Esmond
Cell Vendor: COSMX	Cell Model: CA436981G	N/A	N/A

Test Sample Identification: ☐ Large Battery ☒ Small Battery ☐ Single-cell Battery

Battery Pack						Component Cell		
Used	Sample No.	Sample State	Used	Sample No.	Sample State	Used	Sample No.	Sample State
V	01~04	1 Cycle, Fully charged	V	05~08	25 Cycles, Fully charged	V	01C~05C	1 Cycle, 50% SOC
V	09~12	1 Cycle, Fully charged	V	13~16	25 Cycles, Fully charged	V	06C~10C	25 Cycles, 50% SOC
						V	11C~20C	1 Cycle, Fully discharged (0% SOC)
						V	21C~30C	25 Cycles, Fully discharged (0% SOC)

T.1 Altitude Simulation

Start time: 2020/10/21 09:06		Ambient temp.: 23.9 °C						Operator: Mia	
Finish time: 2020/10/21 16:10		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	12.659	12.654	12.657	12.661	12.659	12.653	12.660	12.658
	After	12.652	12.648	12.648	12.657	12.651	12.647	12.651	12.651
	Residual OCV %	99.94%	99.95%	99.93%	99.97%	99.94%	99.95%	99.93%	99.94%
Mass (g)	Before	187.286	186.915	187.119	187.230	186.560	186.718	187.034	186.851
	After	187.279	186.910	187.110	187.224	186.550	186.711	187.026	186.845
	Mass loss %	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%
Results		P	P	P	P	P	P	P	P

T.2 Thermal Test

Start time: 2020/10/21 16:30		Ambient temp.: 24.4 °C							Operator: Mia	
Finish time: 2020/10/28 08:43		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08	
OCV (V)	Before	12.652	12.648	12.648	12.657	12.651	12.647	12.651	12.651	
	After	12.514	12.509	12.511	12.517	12.515	12.508	12.510	12.513	
	Residual OCV %	98.91%	98.90%	98.92%	98.89%	98.92%	98.90%	98.89%	98.91%	
Mass (g)	Before	187.279	186.910	187.110	187.224	186.550	186.711	187.026	186.845	
	After	187.263	186.890	187.092	187.208	186.533	186.691	187.008	186.826	
	Mass loss %		0.01%	0.01%		0.01%	0.01%	0.01%	0.01%	
Results		P	P	P	P	P	P	P	P	

T.3 Vibration

Start time: 2020/10/28 09:05		Ambient temp.: 24.0 °C						Operator: Mia	
Finish time: 2020/10/29 08:48		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	12.514	12.509	12.511	12.517	12.515	12.508	12.510	12.513
	After	12.504	12.501	12.500	12.508	12.508	12.497	12.502	12.503
	Residual OCV %	99.92%	99.94%	99.91%	99.93%	99.94%	99.91%	99.94%	99.92%
Mass (g)	Before	187.263	186.890	187.092	187.208	186.533	186.691	187.008	186.826
	After	187.257	186.885	187.086	187.201	186.528	186.684	187.003	186.819
	Mass loss %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Results		P	P	P	P	P	P	P	P

T.4 Shock

Start time: 2020/10/29 09:10		Ambient temp.: 23.7 °C Operator: Mia							
Finish time: 2020/10/29 13:50		Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	12.504	12.501	12.500	12.508	12.508	12.497	12.502	12.503
	After	12.498	12.492	12.493	12.503	12.499	12.487	12.495	12.494
	Residual OCV %	99.95%	99.93%	99.94%	99.96%	99.93%	99.92%	99.94%	99.93%
Mass (g)	Before	187.257	186.885	187.086	187.201	186.528	186.684	187.003	186.819
	After	187.253	186.881	187.083	187.198	186.524	186.681	187.001	186.815
	Mass loss %	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Results		P	P	P	P	P	P	P	P

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T.5 External Short Circuit

Start time: 2020/10/29 14:10	Ambient temp.: 24.1 °C				Operator: Mia			
Finish time: 2020/10/30 08:40	Sample 01	Sample 02	Sample 03	Sample 04	Sample 05	Sample 06	Sample 07	Sample 08
OCV (V)	Before	12.498	12.492	12.493	12.503	12.499	12.487	12.495
	After	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Resistance (<100mΩ)		58.5	60.4	57.7	59.3	59.8	60.1	57.9
Max Temp. (< 170°C)		57.5	57.1	57.8	57.7	57.4	57.2	57.6
Results		P	P	P	P	P	P	P

T.6 Impact / Crush (Component Cell)

UN38.3/ST/SG/AC.10/11/Rev.6/Amend.1

☐ Impact - Cylindrical cells not less than 18.0 mm in diameter

☒ Crush - Prismatic, pouch, coin/button cells and cylindrical cells less than 18.0 mm in diameter

Start time: 2020/10/22 13:05	Ambient temp.: 24.4 °C				Operator: Mia	
Finish time: 2020/10/22 15:11	Sample 01C	Sample 02C	Sample 03C	Sample 04C	Sample 05C	
Initial OCV (V)	3.810	3.802	3.805	3.808	3.817	
Max Temp. (< 170°C)	23.6	24.5	24.8	24.3	23.7	
Results	P	P	P	P	P	
Sample No.	Sample 06C	Sample 07C	Sample 08C	Sample 09C	Sample 10C	
Initial OCV (V)	3.816	3.813	3.809	3.817	3.819	
Max Temp. (< 170°C)	23.3	23.9	24.4	23.8	24.0	
Results	P	P	P	P	P	

T.7 Overcharge

Start time: 2020/10/21 10:30	Ambient temp.: 24.3 °C				Operator: Mia			
Finish time: 2020/10/29 12:50	Sample 09	Sample 10	Sample 11	Sample 12	Sample 13	Sample 14	Sample 15	Sample 16
Initial OCV (V)	12.655	12.652	12.660	12.666	12.659	12.650	12.662	12.661
Results	P	P	P	P	P	P	P	P

T.8 Forced Discharge (Component Cell)

Start time: 2020/10/22 09:30	Ambient temp.: 24.1 °C				Operator: Mia			
Finish time: 2020/10/30 11:00	Sample 11C	Sample 12C	Sample 13C	Sample 14C	Sample 15C	Sample 16C	Sample 17C	Sample 18C
Initial OCV (V)	3.420	3.434	3.418	3.440	3.449	3.431	3.428	3.425
Results	P	P	P	P	P	P	P	P
Sample No.	Sample 19C	Sample 20C	Sample 21C	Sample 22C	Sample 23C	Sample 24C	Sample 25C	Sample 26C
Initial OCV (V)	3.450	3.426	3.437	3.411	3.443	3.432	3.419	3.422
Results	P	P	P	P	P	P	P	P
Sample No.	Sample 27C	Sample 28C	Sample 29C	Sample 30C				
Initial OCV (V)	3.447	3.414	3.425	3.417				
Results	P	P	P	P				

9. Test Sample:



Form No. : W11-002-B05

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