

Verification Report No. NGBEC1705678601 Date: 02 Jan 2018 Page 1 of 23

ZHEJIANG SAFEWELL PRECISION SHEET-METAL MFG., LTD.
NO.105,DONGXINROAD,YANGMIAO INDUSTRY ZONE,JIASHAN,ZHEJIANG

Sample Name : Rack

SGS Job No.: NP17-004147 - NB

Tested Basic Model No.: SNB

Client Ref. Information: SEE ATTACHMENT

Date of Sample Received: 13 Nov 2017

Verification Period: 13 Nov 2017 - 27 Dec 2017

Verification Requested: With reference to RoHS Directive (EU) 2015/863 amending 2011/65/EU.

Verification Method : Please refer to next page(s).

Verification Result : Please refer to next page(s).

Verification Conclusion: Based on the verification results of the submitted samples, the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) do not exceed the limits as set by RoHS

Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Note: The test results are related only to the tested items. The report shall not be

reproduced except in full without the written approval of the testing laboratory.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

Tony Li

Approved Signatory

lony Li



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Verification Method:

1. With reference to IEC 62321-2:2013, review was performed for the samples disjointed from the submitted articles.

Date: 02 Jan 2018

- 2. With reference to IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report
- (1) With reference to IEC 62321-3-1:2013, screening by EDXRF spectroscopy
- (2) Wet chemical test method
- a. With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES  $\,$
- b. With reference to IEC 62321-5:2013, determination of Lead by ICP-OESc. With reference to IEC 62321-4:2013+A1:2017, determination of Mercury by ICP-OES
- d. With reference to IEC 62321-7-1:2015, IEC 62321-7-2:2017 & ISO 17075-1:2017, determination of Hexavalent chromium by Colorimetric method using UV-Vis.
- e. With reference to IEC 62321-6:2015 , determination of PBBs and PBDEs by GC-MS  $\,$



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In accordance with the result of material risk assessment, the following disjointed parts in the submitted sample have been verified.

Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
1	SNB-Black metal screw		Pb	BL		Comply	13 Nov 2017
			Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs				
			PBDEs				
2	SNB-Black metal nut		Pb	BL		Comply	13 Nov 2017
			Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs				
			PBDEs				
3	SNB-Black plastic lump		Pb	BL		Comply	13 Nov 2017
			Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	ND	Comply	
4	SNB-Silvery metal nut		Pb	BL		Comply	13 Nov 2017
			Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs				
			PBDEs				



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
5	SNB-Silvery metal screw		Pb Cd	BL BL		Comply Comply	13 Nov 2017
			Hg	BL		Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs				
			PBDEs				
6	SNB-Gray metal lump		Pb	OL	22050▲	Comply	13 Nov 2017
			Cd	BL		Comply	13 1400 2017
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
7	SNB-Silvery metal screw		Pb	BL		Comply	13 Nov 2017
	Í		Cd	BL		Comply	101101 2011
			Hg	BL		Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs				
			PBDEs				
8	SNB-Black plastic		Pb	BL		Comply	13 Nov 2017
	sheath(wire)		Cd	BL		Comply	.51107 2017
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Chemical	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
9	SNB-Silvery plastic label		Pb Cd	BL BL		Comply Comply	13 Nov 2017
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
10	SNB-Black plastic		Pb	BL		Comply	13 Nov 2017
	jacket(wire)		Cd	BL		Comply	13 1400 2017
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
11	SNB-Silvery metal lump		Pb	BL		Comply	13 Nov 2017
			Cd	BL		Comply	101100 2017
			Hg	BL		Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs				
			PBDEs				
12 -C	SNB-Black plastic		Pb	BL		Comply	13 Nov 2017
	adhesive tape		Cd	BL		Comply	101101 2011
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Chemical	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
13	SNB-Black plastic lump		Pb Cd Hg Cr(VI)▼	BL BL BL	  	Comply Comply Comply Comply	13 Nov 2017
			PBBs PBDEs	IN IN	ND ND	Comply	
14	SNB-White plastic piece		Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL BL BL	   	Comply Comply Comply Comply Comply	13 Nov 2017
15 -S	SNB-Silvery metal screw		Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL 	   	Comply Comply Comply Comply	13 Nov 2017
16	SNB-Gray plastic lump		Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL BL BL	  	Comply Comply Comply Comply Comply	13 Nov 2017



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
17	SNB-Black plastic ring		Pb	BL		Comply	13 Nov 2017
			Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
18	SNB-Black coating		Pb	BL		Comply	13 Nov 2017
			Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
19	SNB-Silvery metal base		Pb	BL		Comply	13 Nov 2017
			Cd	BL		Comply	1011012011
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
20	SNB-Copper-colored		Pb	BL		Comply	13 Nov 2017
	metal lump		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
21	SNB-Silvery metal spring		Pb Cd Hg	BL BL BL		Comply Comply Comply	13 Nov 2017
			Cr(VI)▼ PBBs PBDEs	IN	ND 	Comply	
22	SNB-Black plastic lump		Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL BL BL	   	Comply Comply Comply Comply Comply	13 Nov 2017
23	SNB-Silvery metal lump		Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL 	   	Comply Comply Comply Comply	13 Nov 2017
24	SNB-Silvery metal ring		Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL 	   	Comply Comply Comply Comply	13 Nov 2017



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
25	SNB-Black plastic lump		Pb Cd	BL BL		Comply Comply	13 Nov 2017
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	IN	ND	Comply	
			PBDEs	IN	<800 <i>*</i>	Comply	
26	SNB-White plastic lump		Pb	BL		Comply	13 Nov 2017
	· ·		Cd	BL		Comply	10 110 2017
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
27	SNB-Silvery metal lump		Pb	BL		Comply	13 Nov 2017
			Cd	BL		Comply	10 110 2017
			Hg	BL		Comply	
			Cr(VI)▼	IN	ND	Comply	
			PBBs				
			PBDEs				
28	SNB-Black rubber lump		Pb	BL		Comply	13 Nov 2017
	<u> </u>		Cd	BL		Comply	.51.0. 2017
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
29	SNB-White plastic lump		Pb Cd Hg	BL BL BL	  	Comply Comply Comply	13 Nov 2017
			Cr(VI)▼ PBBs PBDEs	BL BL BL	  	Comply Comply Comply	
30	SNB-Silvery metal lump		Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL 	   	Comply Comply Comply Comply	13 Nov 2017
31	SNB-Gray metal lump		Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL IN	  ND 	Comply Comply Comply Comply	13 Nov 2017
32	SNB-Colorful metal lump		Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL IN	  ND 	Comply Comply Comply Comply	13 Nov 2017



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
33	SNB-Silvery metal rod		Pb Cd Hg Cr(VI)▼ PBBs	BL BL BL IN	  ND 	Comply Comply Comply Comply	13 Nov 2017
34	SNB-Golden metal lump		PBDEs  Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL BL 	   	Comply Comply Comply Comply	13 Nov 2017
35	SNB-Golden metal piece		Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL 	   	Comply Comply Comply Comply	13 Nov 2017
36	SNB-Brown plastic jacket(wire)		Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL BL BL	   	Comply Comply Comply Comply Comply Comply	13 Nov 2017



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Chemical	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
37	SNB-Blue plastic		Pb	BL		Comply	13 Nov 2017
	jacket(wire)		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI) <b>▼</b>	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
38	SNB-Silvery metal piece		Pb	BL		Comply	13 Nov 2017
			Cd	BL		Comply	13 1400 2017
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				
39	SNB-Yellow/green plastic		Pb	BL		Comply	13 Nov 2017
	jacket(wire)		Cd	BL		Comply	101101 2017
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	
40	SNB-Black plastic		Pb	BL		Comply	13 Nov 2017
-	sheath(wire)		Cd	BL		Comply	101101 2017
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs	BL		Comply	
			PBDEs	BL		Comply	



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical Testing(2) (mg/kg)	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
41 -C	SNB-Black plastic lump		Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL BL BL	   	Comply Comply Comply Comply Comply Comply	13 Nov 2017
42	SNB-White plastic bracket		Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL BL BL	   	Comply Comply Comply Comply Comply Comply	13 Nov 2017
43	SNB-Gray plastic lump		Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL BL BL	   	Comply Comply Comply Comply Comply	13 Nov 2017
44	SNB-Silvery metal pin		Pb Cd Hg Cr(VI)▼ PBBs PBDEs	BL BL BL 	   	Comply Comply Comply	13 Nov 2017



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Part No.	Part Description	BOM No.	Restricted Substances	Results of EDXRF (1)	Chemical	Conclusion on EU RoHS	Sample Submitted / Resubmitted Date
45	SNB-Copper-colored		Pb	BL		Comply	13 Nov 2017
	metal screw		Cd	BL		Comply	
			Hg	BL		Comply	
			Cr(VI)▼	BL		Comply	
			PBBs				
			PBDEs				



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#### Remark:

- (1) (a) There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There is the result on total Cr while test item on restricted substances is Cr(VI).
  - (b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC62321-3-1:2013 (unit: mg/kg).

Element	Polymer	Metal	Composite Materials
Cd	BL ≤(70-3σ)< X <(130+3σ)≤OL	BL ≤(70-3σ)< X <(130+3σ)≤OL	LOD < X <(150+3σ)≤ OL
Pb	BL ≤(700-3σ)< X<(1300+3σ)≤ OL	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(500-3σ)< X<(1500+3σ)≤ OL
Hg	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(500-3σ)< X <(1500+3σ)≤ OL
Br	BL ≤ (300-3σ)< X		BL ≤ (250-3σ)< X
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< X

- (c) BL = Below Limit, OL = Over Limit, IN = Inconclusive, LOD = Limit of Detection, -- = Not regulated.
- (d) The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- (2) (a) mg/kg = 0.0001%, MDL = Method detection Limit, ND = Not Detected (<MDL), --- = Not conducted, = Without BOM.
  - (b) Unit and MDL in wet chemical test

Test Item	Pb	Cd	Hg
Unit	mg/kg	mg/kg	mg/kg
MDL	10	10	10

The MDL for single compound of PBBs and PBDEs is 100 mg/kg, MDL of Cr(VI) for polymer, composite and leather sample is 10 mg/kg, MDL of Cr(VI) for metal sample is 0.10 µg/cm<sup>2</sup>.



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- (c) ▼ =Metal sample
  - a. The sample is positive for CrVI if the CrVI concentration is greater than  $0.13~\mu g/cm^2$ . The sample coating is considered to contain CrVI
  - b. The sample is negative for CrVI if CrVI is ND (concentration less than  $0.10~\mu g/cm^2$ ). The coating is considered a non-CrVI based coating
  - c. The result between 0.10 µg/cm² and 0.13 µg/cm² is considered to be inconclusive
    - unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

IEC 62321 series is equivalent to EN 62321 series <a href="http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP">http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP</a> ORG ID,FSP LANG ID:1258637, 25>



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- (d) ▲ = According to the declaration from the client, Lead (Pb) in No.6 is exempted by EU RoHS directive 2011/65/EU based on IANNEX III 6(c)|: Copper alloy containing up to 4 % lead by weight.
- (3) According to the declaration from applicant, the materials of Model "SNB" are the same as those in Model mentioned in Client Ref. Information and its results for support the results of Model mentioned in Client Ref. Information. The applicant will take the responsibility of all discrepancy and risk.
- (4) \* =Considering insufficient sample amount, the Method Detection Limit (MDL) is raised appropriately.

#### Attachment:

SSG.SSF,SSZ,SSN.SSC,SNX,SSE,SMA,SMB,SMC,SMQ,SMO,SME,SMN,SMP,SMM,SML,SM K,SMT,SMS,SMJ,SMV,SMD,SRA,4-POST,SRB,2-POST,SRD,SWAFSHELF,SWSHELF4P, SW2P1USHELF,SW2P2USHELF,SWAFSHELF4POST,SW2P2USHELFCM450,SWASSHELF. SWSSHELF,SWASSHELFSG,SWSDRAWER-650,SWSSSHELF,SWRSHELF,SWSDRAWERWSH-2U, SWP2UPANELB,SWP1UPANEL,SWMF1UPANEL,SWM1UPANEL,SWF1UBRUSHPANEL, SW1UBRUSHPANEL,SWLIGHTPANEL8W,SWBASE,SWCAGENUT,SWCAGENUTTOOLSWCAGENUTTOOL, SWP2UPANEL,SWMF2UPANEL,SWMF3UPANEL,SWMF4UPANEL,SWM2UPANEL,SWM3UPANEL, SWM4UPANEL,SWMCABLEDUCT1U,SWPCABLEDUCT1U,SWMCABLERING1U,SWPCABLERING1U, SWCABLEMNRHD1U,SWKDCABLERING1U,SWFPCABLEDUCT1UDS,SWFPCABLEDUCT1U, SWPCABLERING1UVRT,SWPCABLEDUCT1UVRT,SWCABLEMNVRT-SSG,SWCABLEMNVRT-SNB, SWCABLETRAY-CP,SWCABLETRAY,SWMCABLEDUCT2U,SWPCABLEDUCT2U,SWMCABLERING2U, SWPCABLERING2U.SWCABLEMNRHD2U.SWFPCABLEDUCT2UDS.SWFPCABLEDUCT2U. SWPCABLERING2UVRT, SWPCABLEDUCT2UVRT, SWFANSHELF, SWFANUNIT, SWFAN, SWFANSHELFD, SWFANTRAY, SWSNBFANTRAY, SWFANPANEL, SWSSGBTP, SCA



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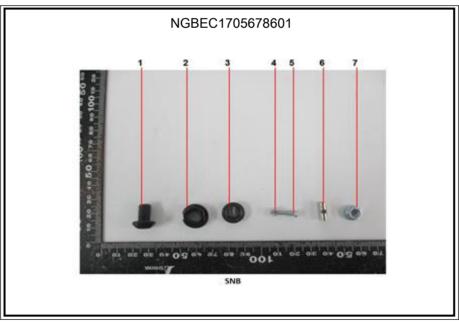
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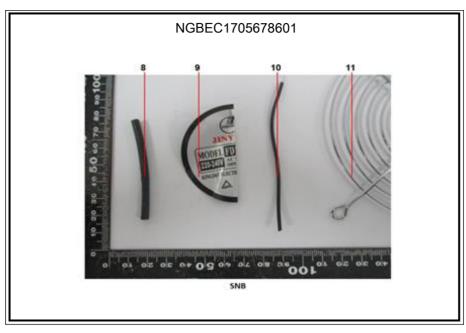
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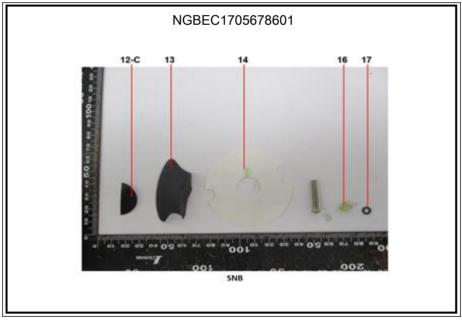


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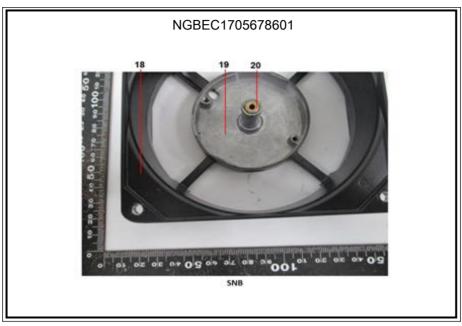
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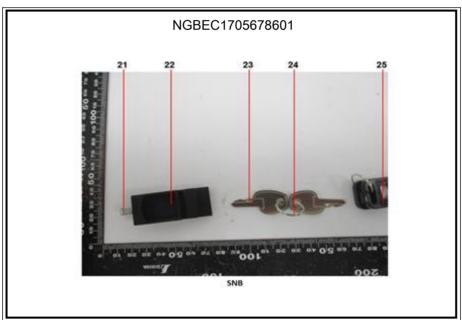


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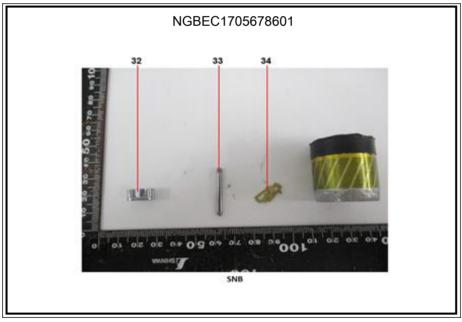


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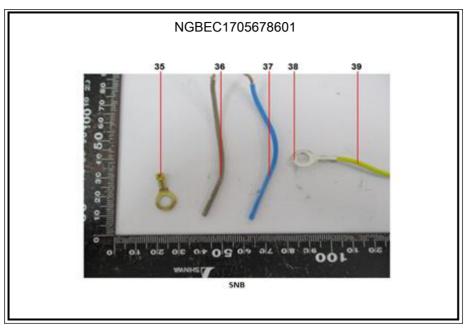
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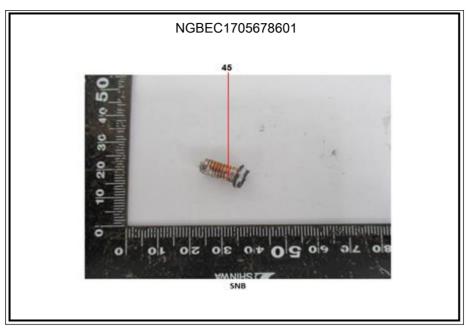
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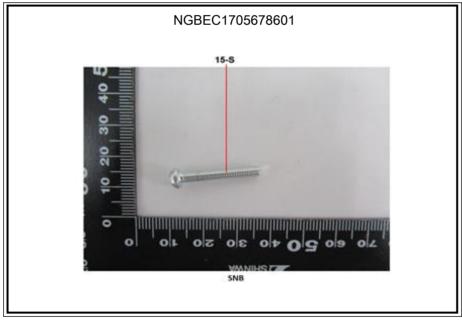


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