

SB, BMS-220ADB Circuit breaker 533933601 (E10739-CB), 2023-08

SYMPTOM/DESCRIPTION

The circuit breaker is tripping at approximately 70A instead of 100A. As a result, the units are constantly tripping.

The supplier has been changed but the the circuit breaker needs to be changed in the affected units.

AFFECTED UNITS

All blue & orange units mentioned below:

BMS-220ADB 970615401 (FLOOR SCRAPER BMS 220ADB | 48VDC BATTERY + 230VAC CHARGER | EU)
BMS-220ADB 970615403 (FLOOR SCRAPER BMS 220ADB | 48VDC BATTERY + 110VAC CHARGER | US)
BMS-220ADB 970615404 (FLOOR SCRAPER BMS 220ADB | 48VDC BATTERY + 110VAC CHARGER | US)
BMS-220ADB 970556201 (FLOOR SCRAPER BMS-220ADB | 48VDC BATTERY + 110VAC CHARGER BLUE | US)
BMS-220ADB 970556203 (FLOOR SCRAPER BMS-220ADB | 48VDC BATTERY + 230VAC CHARGER | EU)

See table in *Appendix B* for all affected / individual serial numbers.

The new circuit breaker 533933601 is already implemented from serial number: 970615404TDS2023203.

CORRECTIVE ACTION

If you discover an old fuse in the E-box, it must be replaced with the new version, the instructions in *Appendix A* must be followed.

Replace the old circuit breaker 533933602 (E10739-4C) with the new circuit breaker: 533933601 (E10739-CB).

PROCEDURE

Refer to *Appendix A*.

PARTS INFORMATION

What parts to order and how? *Order from EPC:*

1. 533933601 (E10739-CB) - Circuit breaker marine rated 100A
2. Scrap parts in local stock? - Yes, *old 533933602 (E10739-4C) is to be scrapped.*
3. The old 533933602 is eliminated, not orderable.
4. Update products in local stock? – Yes
5. Recall products from customers and update? – No
6. Update sold products during next service if part caused a problem or anyway? – Yes, *Check if the machine is equipped with the old circuit breaker 533933602 (E10739-4C) in the E-box. Replace if old one!*

WARRANTY INFORMATION

Normal warranty policy applies.

Revision History

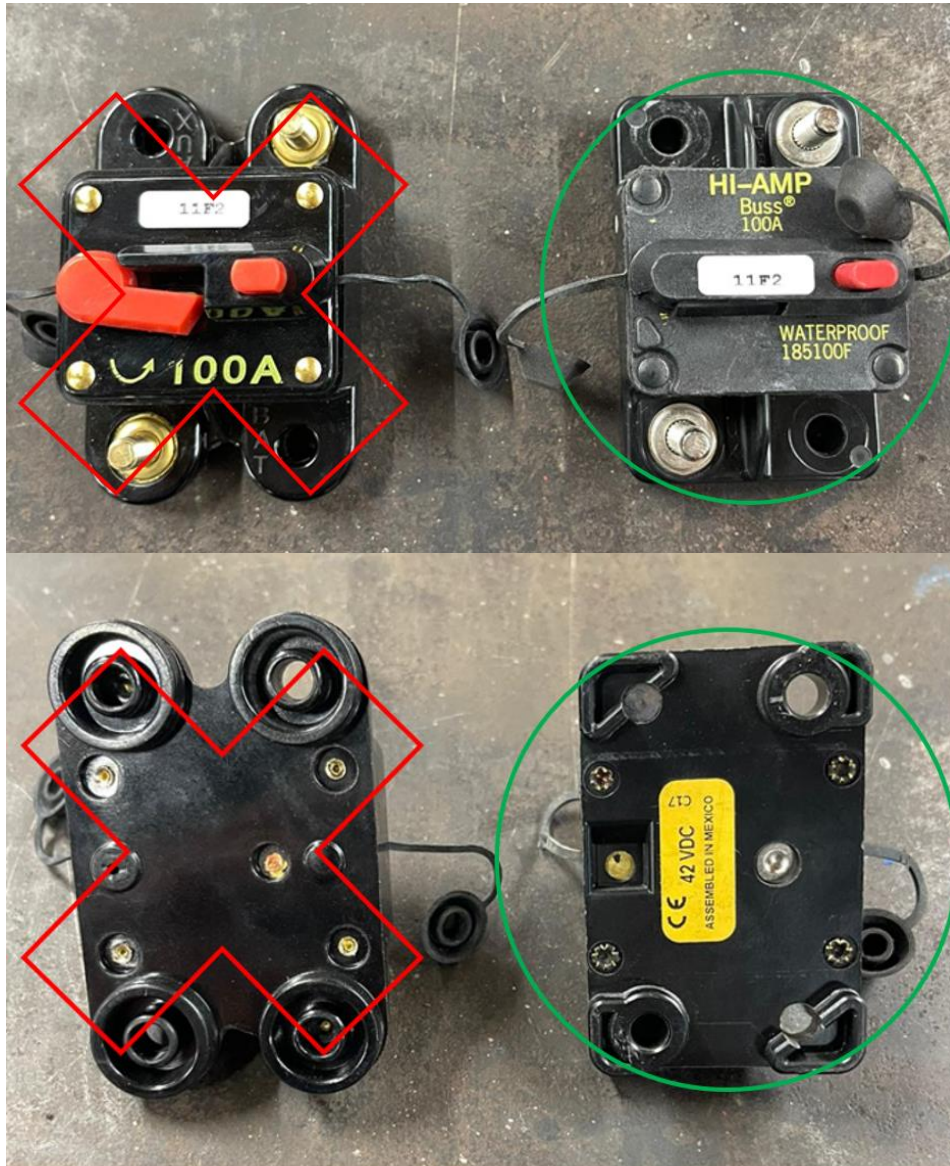
Rev.	Date	Order id.	Description
A	2023-08	00031401	Created

Appendix A

General

Left: Failing breaker, 533933602 (E10739-4C)

Right: New breaker, 533933601 (E10739-CB)



Step 1:

Turn the machine off by turning the key switch off.



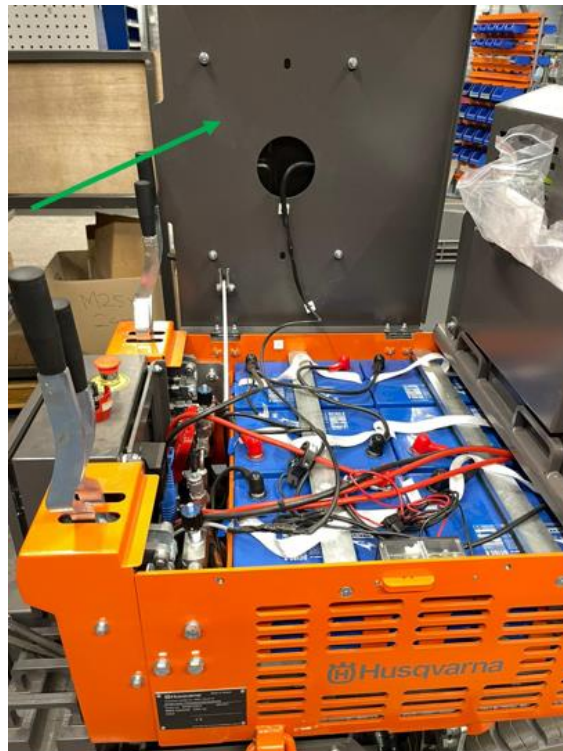
Step 2:

Unscrew the two knob threaded screws.



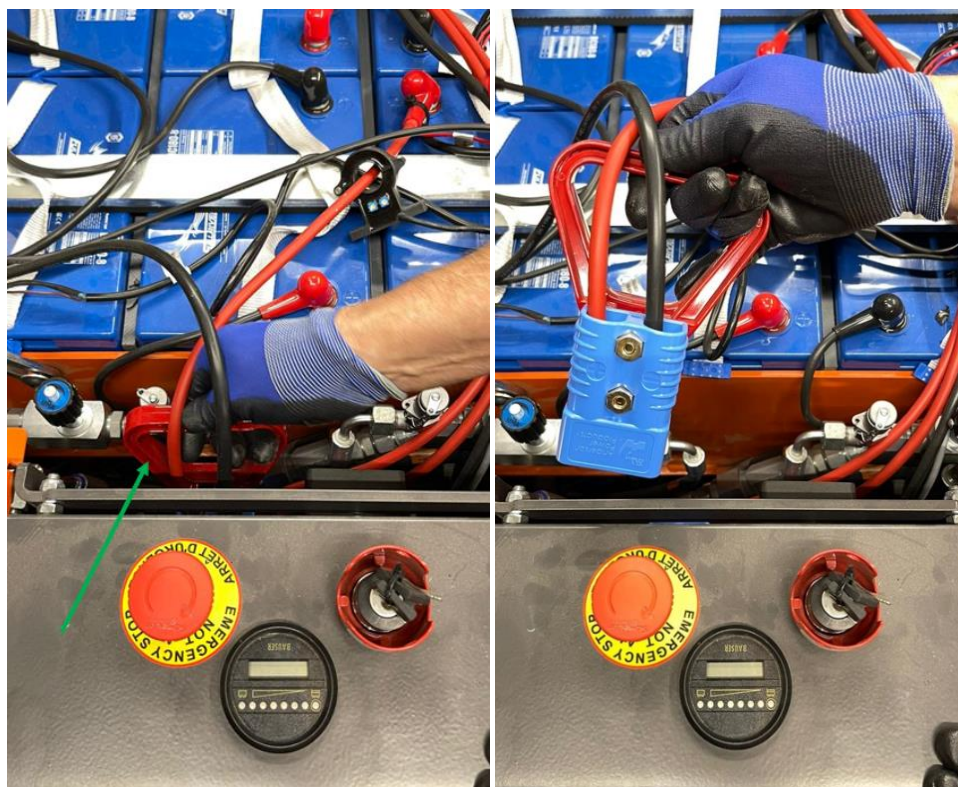
Step 3:

Open the battery cover.



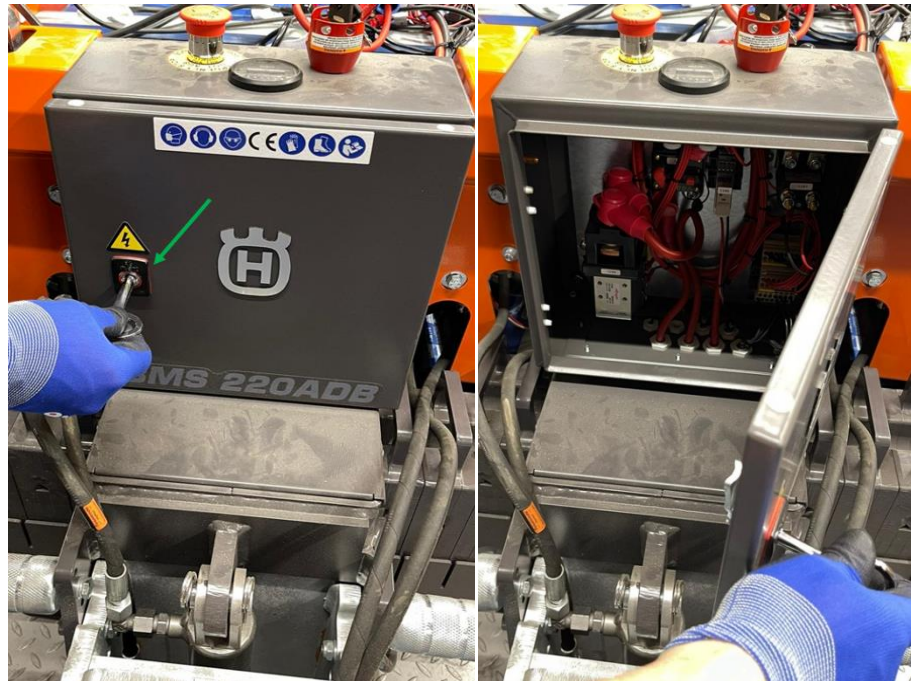
Step 4:

Disconnect the battery plug.



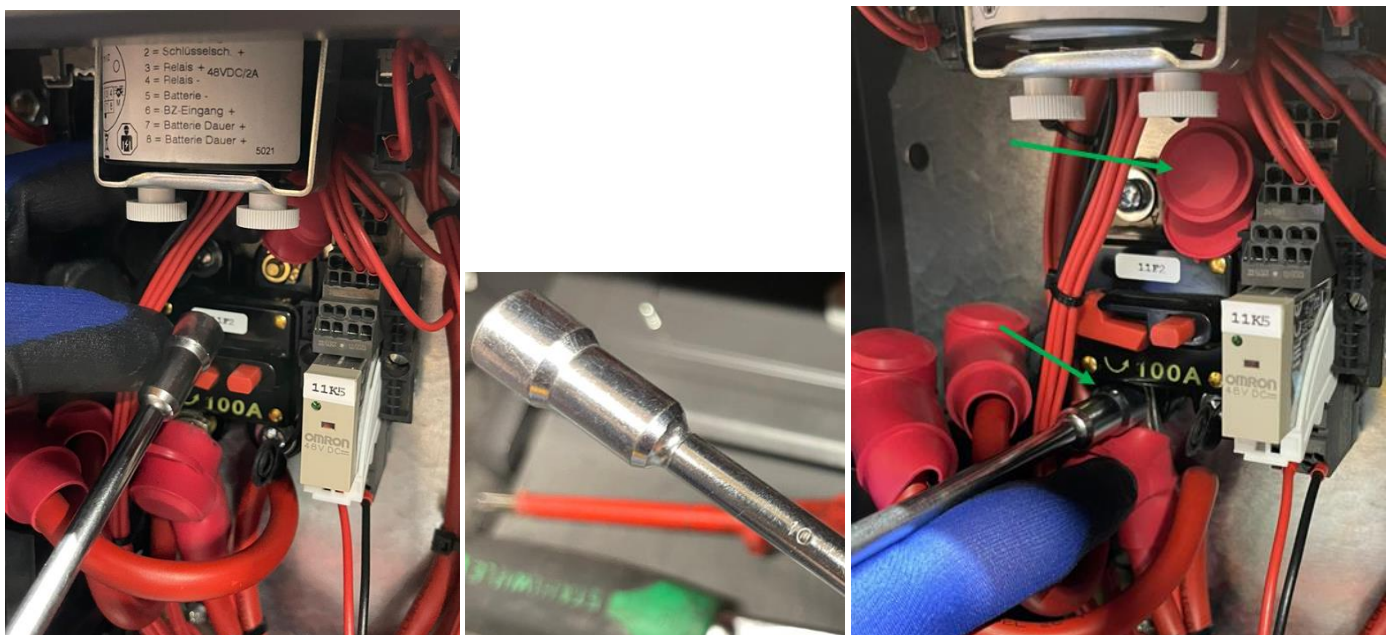
Step 5:

Open the E-Box with the E-box key.



Step 6:

Unscrew the two nuts of the battery cables with an wrench size 10 mm.



Step 7:

Dismount the failing breaker by unscrewing the two crosshead screws.



Step 8:

Don't use the nuts of the old (failed) breaker as they have a different thread size.



Step 9:

Mount the battery cables to the new breaker by using a wrench size 11mm.
(Note, there must be 2 wires attached to each contact !).



Step 10:

There are two possible positions to mount the new breaker in the E-box. One position for the old breaker and the other position for the new breaker.



Step 11:

Find the correct position and tighten the 2 crosshead screws of the breaker.



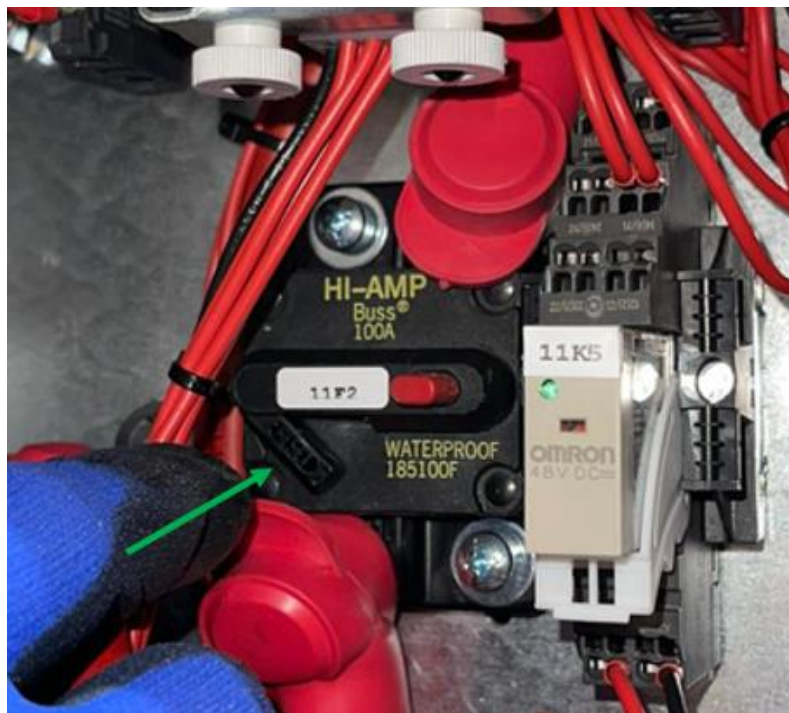
Step 12:

Make sure that all cable protections are correctly mounted.

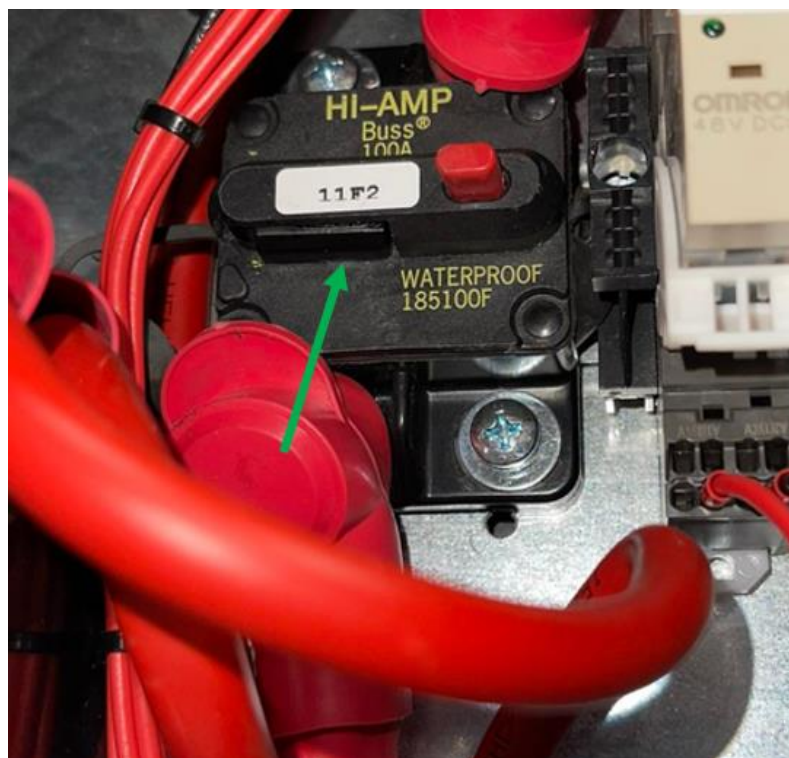


Step 13:

Activate the circuit breaker by pushing the black lever up.

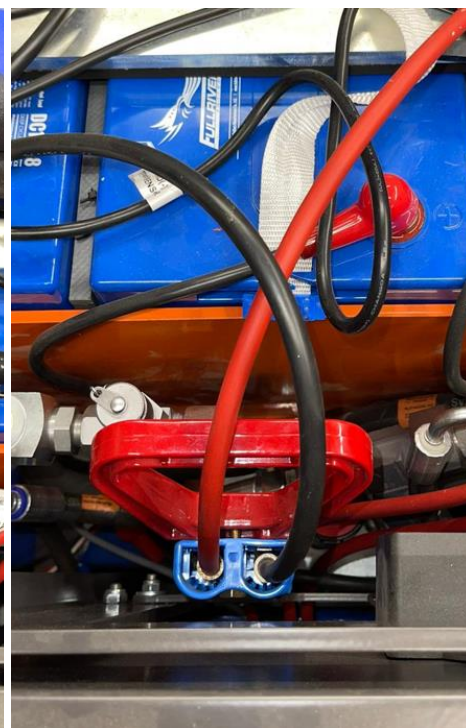
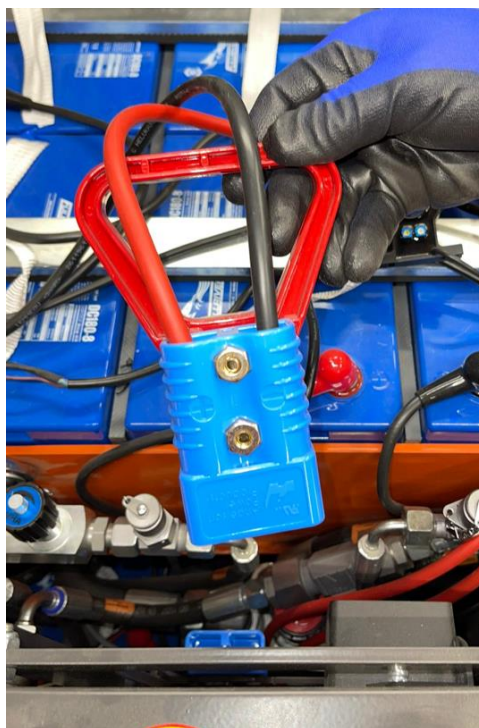


The correct position of an activated breaker is shown to the right.



Step 14:

Connect the battery plug.



Appendix B

Affected Serial numbers

Legend:

Cooper Bussman *(correct type of breaker)*

Changed in Poland from 4CarMedia to Cooper Bussman

4CarMedia *(incorrect type of breaker)*

SN Machine	Date, tested machine	Serial no. electrobox	Date, tested electrobox	Market	Item code
34307B	12/1/2021	20212428	11/24/2021	Europe	970556203
35864B	12/2/2021	20212439	11/26/2021	US	970556201
35865B	12/7/2021	20212425	10/24/2021	US	970556201
35866B	12/7/2021	20212427	11/24/2021	US	970556201
35867B	12/14/2021	20212492	12/9/2021	US	970556201
970615403TDS2022065000019	2/11/2022	20221103	1/27/2022	US	970615403
970615403TDS2022065000026	2/11/2022	20221125	2/1/2022	US	970615403
970615403TDS2022065000033	2/11/2022	20221104	1/27/2022	US	970615403
970615403TDS2022065000040	2/11/2022	20221091	1/26/2022	US	970615403
970615403TDS2022065000057	2/11/2022	20221120	1/31/2022	US	970615403
970615403TDS2022065000064	2/11/2022	20221117	1/31/2022	US	970615403
970615403TDS2022065000071	2/11/2022	20221111	1/28/2022	US	970615403
970615403TDS2022065000088	2/11/2022	20221100	1/26/2022	US	970615403
970615403TDS2022065000095	2/11/2022	20221143	2/3/2022	US	970615403
970615403TDS2022074000017	2/17/2022	20221134	2/2/2022	US	970615403
970615403TDS2022074000024	2/17/2022	20221095	1/26/2022	US	970615403
970615403TDS2022074000031	2/17/2022	20221128	2/1/2022	US	970615403
970615403TDS2022074000048	2/17/2022	20221123	1/31/2022	US	970615403
970615403TDS2022074000062	2/17/2022	20221127	2/1/2022	US	970615403
970615401TDS2022075000018	2/18/2022	20221185	2/17/2022	Europe	970615401
970615403TDS2022091000021	2/28/2022	20221218	2/28/2022	US	970615403

SN Machine	Date, tested machine	Serial no. electrobox	Date, tested electrobox	Market	Item code
970615403TDS2022091000038	2/28/2022	20221214	2/28/2022	US	970615403
970615403TDS2022091000052	3/1/2022	20221222	3/1/2022	US	970615403
34308B	3/3/2022	20221088	1/25/2022	Europe	970556203
34309B	3/4/2022	20221087	1/25/2022	Europe	970556203
970615403TDS2022095000010	3/4/2022	20221232	3/2/2022	US	970615403
970615403TDS2022095000027	3/4/2022	20221228	3/2/2022	US	970615403
34310B	3/8/2022	20221028	1/11/2022	Europe	970556203
34311B	5/6/2022	20221026	1/11/2022	Europe	970556203
34312B	5/13/2022	20221068	1/21/2022	Europe	970556203
970615401TDS2022195000011	5/13/2022	20221231	3/3/2022	Europe	970615401
970615401TDS2022195000028	5/13/2022	20221215	2/28/2022	Europe	970615401
970615401TDS2022195000035	5/13/2022	20221225	3/1/2022	Europe	970615401
970615401TDS2022195000042	5/13/2022	20221217	3/1/2022	Europe	970615401
970615401TDS2022195000059	5/13/2022	20221220	3/1/2022	Europe	970615401
34313B	5/16/2022	20221067	1/21/2022	Europe	970556203
34314B	5/17/2022	20221069	1/21/2022	Europe	970556203
34315B	5/17/2022	20221057	1/20/2022	Europe	970556203
34316B	5/18/2022	20221060	1/20/2022	Europe	970556203
34317B	5/18/2022	20221059	1/20/2022	Europe	970556203
34318B	5/18/2022	20221061	1/21/2022	Europe	970556203
34319B	5/19/2022	20221556	5/17/2022	Europe	970556203
34320B	5/19/2022	20221558	5/17/2022	Europe	970556203
37285B	5/24/2022	20221020	1/10/2022	Europe	970556203
37286B	5/24/2022	20221113	1/28/2022	Europe	970556203
37287B	5/24/2022	20221024	1/11/2022	Europe	970556203
37288B	5/27/2022	20221021	1/10/2022	Europe	970556203
37289B	5/27/2022	20221018	1/10/2022	Europe	970556203
37290B	5/27/2022	20221025	1/11/2022	Europe	970556203

SN Machine	Date, tested machine	Serial no. electrobox	Date, tested electrobox	Market	Item code
970615401TDS2022241000019	6/13/2022	20221023	6/6/2022	Europe	970615401
970615401TDS2022283000015	7/13/2022	20221553	5/17/2022	Europe	970615401
970615401TDS2022283000022	7/13/2022	20221722	6/23/2022	Europe	970615401
970615401TDS2022283000039	7/13/2022	20221725	6/24/2022	Europe	970615401
970615401TDS2022283000046	7/13/2022	20221723	6/24/2022	Europe	970615401
970615401TDS2022283000053	7/13/2022	20221552	7/13/2022	Europe	970615401
970615401TDS2022283000060	7/13/2022	20221777	7/13/2022	Europe	970615401
970615401TDS2022283000077	7/13/2022	20221780	7/13/2022	Europe	970615401
970615401TDS2022283000084	7/13/2022	20221782	7/13/2022	Europe	970615401
970615401TDS2022283000091	7/13/2022	20221778	7/13/2022	Europe	970615401
970615401TDS2022283000107	7/14/2022	20221788	7/14/2022	Europe	970615401
970615401TDS2022283000114	7/14/2022	20221787	7/14/2022	Europe	970615401
970615401TDS2022283000121	7/14/2022	20221783	7/14/2022	Europe	970615401
970615401TDS2022283000138	7/14/2022	20221785	7/14/2022	Europe	970615401
970615403TDS2022332000018	8/16/2022	20221793	7/15/2022	US	970615403
970615403TDS2022332000025	8/16/2022	20221794	7/18/2022	US	970615403
970615403TDS2022341000016	8/22/2022	20221908	8/11/2022	US	970615403
970615403TDS2022341000023	8/22/2022	20221907	8/10/2022	US	970615403
970615403TDS2022341000030	8/22/2022	20221910	8/11/2022	US	970615403
970615403TDS2022355000019	9/2/2022	20222004	8/31/2022	US	970615403
970615403TDS2022355000026	9/2/2022	20221999	8/30/2022	US	970615403
970615403TDS2022355000033	9/2/2022	20221911	8/11/2022	US	970615403
970615403TDS2022355000040	9/2/2022	20221979	8/25/2022	US	970615403
970615403TDS2022355000057	9/2/2022	20221978	8/25/2022	US	970615403
970615403TDS2022362000019	9/6/2022	20222006	8/31/2022	US	970615403
970615403TDS2022362000026	9/6/2022	20222007	8/31/2022	US	970615403
970615403TDS2022373000015	9/14/2022	20222008	8/31/2022	US	970615403
970615403TDS2022373000022	9/14/2022	20222002	8/30/2022	US	970615403

SN Machine	Date, tested machine	Serial no. electrobox	Date, tested electrobox	Market	Item code
970615401TDS2022394000010	9/29/2022	20221786	7/14/2022	Europe	970615401
970615401TDS2022394000027	9/29/2022	20221781	7/13/2022	Europe	970615401
970615401TDS2022394000034	9/29/2022	20221796	7/15/2022	Europe	970615401
970615401TDS2022403000031	10/4/2022	20222005	8/31/2022	Europe	970615401
970615401TDS2022403000017	10/5/2022	20222003	8/31/2022	Europe	970615401
970615401TDS2022403000024	10/5/2022	20222009	8/31/2022	Europe	970615401
970615401TDS2022412000015	10/11/2022	20222014	8/31/2022	Europe	970615401
970615401TDS2022412000022	10/11/2022	20222011	8/31/2022	Europe	970615401
970615401TDS2022412000039	10/11/2022	20222013	8/31/2022	Europe	970615401
970615403TDS2022453000010	11/9/2022	20222012	8/31/2022	US	970615403
970615403TDS2022453000027	11/9/2022	20222169	10/6/2022	US	970615403
970615403TDS2022453000034	11/9/2022	20222162	10/6/2022	US	970615403
970615403TDS2022453000041	11/9/2022	20222160	10/5/2022	US	970615403
970615403TDS2022453000058	11/9/2022	20222167	10/6/2022	US	970615403
970615403TDS2022453000065	11/9/2022	20222165	10/6/2022	US	970615403
970615403TDS2022453000072	11/9/2022	20222168	10/6/2022	US	970615403
970615403TDS2022453000089	11/9/2022	20222164	10/6/2022	US	970615403
970615403TDS2022453000096	11/9/2022	20222010	8/31/2022	US	970615403
970615403TDS2022453000102	11/9/2022	20222158	10/5/2022	US	970615403
970615401TDS2022463000019	11/16/2022	20222163	10/6/2022	Europe	970615401
970615401TDS2022463000026	11/16/2022	20222179	10/7/2022	Europe	970615401
970615403TDS2022471000016	11/21/2022	20222159	10/5/2022	US	970615403
970615403TDS2022471000023	11/21/2022	20222161	10/5/2022	US	970615403
970615403TDS2022471000030	11/21/2022	20222155	10/6/2022	US	970615403
970615403TDS2022471000047	11/21/2022	20222166	10/6/2022	US	970615403
970615401TDS2022495000018	12/9/2022	20222174	10/7/2022	Europe	970615401
970615403TDS2022511000013	12/19/2022	20222176	10/7/2022	US	970615403
970615403TDS2023032000100	1/17/2023	20222185	10/10/2022	US	970615403

SN Machine	Date, tested machine	Serial no. electrobox	Date, tested electrobox	Market	Item code
970615403TDS2023032000117	1/17/2023	20222175	10/7/2022	US	970615403
970615401TDS2023042000017	1/24/2023	20231039	1/17/2023	Europe	970615401
970615401TDS2023042000024	1/24/2023	20231035	1/16/2023	Europe	970615401
970615401TDS2023042000031	1/24/2023	20231035	1/16/2023	Europe	970615401
970615401TDS2023042000048	1/24/2023	20222153	10/4/2022	Europe	970615401
970615404TDS2023042000014	1/24/2023	20222187	10/11/2022	US	970615404
970615404TDS2023042000021	1/24/2023	20222180	10/7/2022	US	970615404
970615404TDS2023042000038	1/24/2023	20222171	10/6/2022	US	970615404
970615404TDS2023042000045	1/24/2023	20222170	10/6/2022	US	970615404
970615404TDS2023042000052	1/24/2023	20222186	10/10/2022	US	970615404
970615404TDS2023042000069	1/24/2023	20222269	10/26/2022	US	970615404
970615404TDS2023042000076	1/24/2023	20222272	10/26/2022	US	970615404
970615404TDS2023042000083	1/24/2023	20222275	10/27/2022	US	970615404
970615404TDS2023042000090	1/24/2023	20222172	10/6/2022	US	970615404
970615404TDS2023044000012	1/26/2023	20222156	10/5/2022	US	970615404
970615404TDS2023044000029	1/26/2023	20222154	10/4/2022	US	970615404
970615404TDS2023044000036	1/26/2023	20231046	1/17/2023	US	970615404
970615404TDS2023044000035	1/31/2023	20231042	1/17/2023	US	970615404
970615404TDS2023052000011	1/31/2023	20231044	1/17/2023	US	970615404
970615404TDS2023052000028	1/31/2023	20231066	1/19/2023	US	970615404
970615404TDS2023053000010	2/1/2023	20231070	1/20/2023	US	970615404
970615404TDS2023053000027	2/1/2023	20231071	1/20/2023	US	970615404
970615404TDS2023053000034	2/1/2023	20231040	1/17/2023	US	970615404
970615404TDS2023064000016	2/9/2023	20231065	1/19/2023	US	970615404
970615404TDS2023064000023	2/9/2023	20231049	1/18/2023	US	970615404
970615404TDS2023064000030	2/9/2023	20231067	1/19/2023	US	970615404
970615404TDS2023064000047	2/9/2023	20231055	1/18/2023	US	970615404
970615404TDS2023064000054	2/9/2023	20231057	1/19/2023	US	970615404

SN Machine	Date, tested machine	Serial no. electrobox	Date, tested electrobox	Market	Item code
970615404TDS2023071000016	2/13/2023	20231051	1/18/2023	US	970615404
970615404TDS2023071000023	2/13/2023	20231050	1/18/2023	US	970615404
970615404TDS2023071000030	2/13/2023	20231052	1/18/2023	US	970615404
970615404TDS2023071000047	2/13/2023	20231056	1/18/2023	US	970615404
970615404TDS2023074000013	2/16/2023	20231059	1/19/2023	US	970615404
970615403TDS2022074000055	2/17/2023	20221093	1/26/2022	US	970615403
970615404TDS2023113000011	3/15/2023	20231043	1/17/2023	US	970615404
970615404TDS2023113000028	3/15/2023	20231047	1/18/2023	US	970615404
970615404TDS2023113000035	3/15/2023	20231041	1/17/2023	US	970615404
970615404TDS2023121000010	3/20/2023	20231054	1/18/2023	US	970615404
970615404TDS2023121000027	3/20/2023	20231063	1/19/2023	US	970615404
970615404TDS2023121000034	3/20/2023	20231037	1/17/2023	US	970615404
970615404TDS2023131000017	3/27/2023	20231301	3/22/2023	US	970615404
970615404TDS2023131000024	3/27/2023	20231313	3/23/2023	US	970615404
970615404TDS2023131000031	3/27/2023	20231314	3/23/2023	US	970615404
970615404TDS2023131000048	3/27/2023	20231053	1/18/2023	US	970615404
970615404TDS2023131000055	3/27/2023	20231315	3/23/2023	US	970615404
970615404TDS2023131000062	3/27/2023	20231048	1/18/2023	US	970615404
970615404TDS2023131000079	3/27/2023	20231316	3/23/2023	US	970615404
970615401TDS2023132000019	3/28/2023	20231064	1/19/2023	Europe	970615401
970615401TDS2023132000026	3/28/2023	20231058	1/19/2023	Europe	970615401
970615401TDS2023132000033	3/28/2023	20231303	3/22/2023	Europe	970615401
970615404TDS2023142000013	4/4/2023	20231312	3/23/2023	US	970615404
970615404TDS2023142000020	4/4/2023	20231310	3/23/2023	US	970615404
970615404TDS2023142000037	4/4/2023	20231308	3/23/2023	US	970615404
970615404TDS2023142000044	4/4/2023	20231311	3/23/2023	US	970615404
970615404TDS2023152000010	4/11/2023	20231302	3/22/2023	US	970615404
970615404TDS2023152000027	4/11/2023	20231307	3/22/2023	US	970615404

SN Machine	Date, tested machine	Serial no. electrobox	Date, tested electrobox	Market	Item code
970615404TDS2023152000034	4/11/2023	20231321	3/24/2023	US	970615404
970615404TDS2023152000041	4/11/2023	20231318	3/24/2023	US	970615404
970615404TDS2023152000058	4/11/2023	20231320	3/24/2023	US	970615404
970615404TDS2023152000065	4/11/2023	20231317	3/24/2023	US	970615404
970615404TDS2023152000072	4/11/2023	20231306	3/22/2023	US	970615404
970615404TDS2023152000089	4/11/2023	20231305	3/22/2023	US	970615404
970615404TDS2023153000019	4/12/2023	20231309	3/23/2023	US	970615404
970615404TDS2023162000017	4/18/2023	20231304	3/22/2023	US	970615404
970615404TDS2023162000024	4/18/2023	20231334	3/29/2023	US	970615404
970615404TDS2023173000013	4/26/2023	20231325	3/24/2023	US	970615404
970615404TDS2023173000020	4/26/2023	20231327	3/24/2023	US	970615404
970615404TDS2023173000037	4/26/2023	20231347	3/29/2023	US	970615404
970615404TDS2023173000044	4/26/2023	20231346	3/29/2023	US	970615404
970615404TDS2023173000051	4/26/2023	20231336	3/28/2023	US	970615404
970615404TDS2023173000068	4/26/2023	20231324	3/24/2023	US	970615404
970615404TDS2023173000075	4/26/2023	20231335	3/29/2023	US	970615404
970615404TDS2023193000017	5/10/2023	20231350	3/30/2023	US	970615404
970615404TDS2023193000024	5/10/2023	20231355	3/30/2023	US	970615404
970615401TDS2023203000016	5/17/2023	20231322	3/24/2023	Europe	970615401
970615401TDS2023203000023	5/17/2023	20231328	3/27/2023	Europe	970615401
970615404TDS2023203000013	5/17/2023	20231330	3/27/2023	US	970615404
970615404TDS2023203000020	5/17/2023	20231331	3/27/2023	US	970615404
970615404TDS2023203000037	5/17/2023	20231354	3/30/2023	US	970615404
970615404TDS2023203000044	5/17/2023	20231351	3/30/2023	US	970615404
970615404TDS2023203000051	5/17/2023	20231323	3/27/2023	US	970615404
970615404TDS2023203000068	5/17/2023	20231333	3/27/2023	US	970615404
970615404TDS2023203000075	5/17/2023	20231332	3/27/2023	US	970615404
970615401TDS2023241000016	6/12/2023	20231329	3/27/2023	Europe	970615401