



THE NETHERLANDS

## COMMUNICATION

Concerning <sup>(1)</sup>:

- ~~approval granted~~
- approval extended
- ~~approval refused~~
- ~~approval withdrawn~~
- ~~production definitely discontinued~~



of a type of ~~electrical~~/electronic sub-assembly <sup>(1)</sup> with regard to Regulation number 10.**Approval number: E4\*10R06/02\*3994\*02**

1. Make (trade name of manufacturer) : MASTERVOLT
2. Type and general commercial description(s) : Mac Plus 12/12-50, Mac Plus 12/24-30, Mac Plus 24/12-50, Mac Plus 24/24-30
3. Means of identification of type, if marked on the ~~vehicle/component/~~ separate technical unit <sup>(1)</sup> : Mac Plus 12/12-50, Mac Plus 12/24-30, Mac Plus 24/12-50, Mac Plus 24/24-30  
Adding variant: Mac Plus 24/24-50
- 3.1. Location of that marking : On the top side.
4. Category of vehicle : N.A.
5. Name and address of manufacturer : Navico Group EMEA B.V. (Mastervolt B.V.)  
Snijdersbergweg 93  
1105 AN Amsterdam Z.O.  
The Netherlands
6. In the case of components and separate technical units, location and method of affixing of the approval mark : Sticker (identification label) on the front side.
7. Address(es) of assembly plant(s) : 

Confidential information
8. Additional information (where applicable) : see Appendix below



**Approval number: E4\*10R06/02\*3994\*02**

9. Technical service responsible for carrying out the tests : Kiwa Dare B.V.  
Vijzelmolenlaan 7  
3447 GX Woerden  
The Netherlands
10. Date of test report : 2024 January, 9
11. Number of test report : 20230510RPT02
12. Remarks (if any) : see Appendix
13. Place : Zoetermeer
14. Date : 21 March 2024
15. Signature :   
Uwe Löbig 
16. The index to the information package lodged with the approval authority, which may be obtained on request, is attached.
17. Reasons for extension : Adding variant: Mac Plus 24/24-50.  
A minor product modification: 10 dipswitches instead of 8.  
Update to the latest revision of the standard.

---

<sup>(1)</sup> Strike out what does not apply.

## APPENDIX

### to type-approval communication form number: E4\*10R06/02\*3994\*02

concerning the type-approval of an ~~electrical~~/electronic sub-assembly <sup>(1)</sup> under Regulation number 10.

- |        |  |  |
|--------|--|--|
| 1.     | Additional information   | : <u>The Mac Plus 24/24-50 is a new model. The hardware is identical to other models Mac Plus 12/12-50, 24/12-50, 12/24-30, 24/24-30. The Mac Plus 24/24-50, with the highest power, is fully tested, as well as the voltage transient emission and electrical disturbance voltage test (pulse 2b and pulse 4) at the Mac Plus 12/12-50, ensuring coverage for the worst-case combination.</u> |
| 1.1.   | Electrical system rated voltage  | : 12V, 24V <del>pos./neg.</del> ground <sup>(1)</sup>  |
| 1.2.   | This ESA can be used on any vehicle type with the following restrictions   | : N.A.   |
| 1.2.1. | Installation conditions, if any  | : N.A.   |
| 1.3.   | This ESA can be used only on the following vehicle types   | : All  |
| 1.3.1. | Installation conditions, if any  | : Installation of, and work on the Mac Plus, may be carried out only by a qualified, authorised and trained technician or electrician, consistent with the locally applicable standards and regulations.   |
| 1.4.   | The specific test method(s) used and the frequency ranges covered to determine immunity were                       | : Radiated immunity 200MHz – 2GHz<br>Bulk current injection (BCI) 20 – 200MHz<br>Electrical disturbance test on voltage supply lines   |
| 1.5.   | Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests | : Kiwa Dare B.V.   |
| 2.     | Remarks  | : Documentation:<br>Certificate<br>Type approval mark example<br>Annex 2B<br>Report<br>Schematic power/communication<br>PCB power/communication<br>BOM power/communication   |

---

<sup>(1)</sup> Strike out what does not apply.

