

**ECE TYPE-APPROVAL CERTIFICATE**



Communication Concerning:    Approval granted  
                                          ~~Approval extended~~  
                                          ~~Approval refused~~  
                                          ~~Approval withdrawn~~  
                                          ~~Production definitively discontinued~~

Of a type of electrical/electronic sub-assembly with regard to Regulation No.10.

Approval No: **E24\*10R05/01\*2477\*00**

Reason for extension: **N/A**

1.    Make (trade name of manufacturer): ***KNK Grup***
2.    Type and general commercial description: ***JOVA / N-60-XX***  
       Variant(s): ***N/A***
3.    Means of identification of type, if marked on the component: ***Type code is given as product model on the label (last two digits can be changed according to color of the cover)***
- 3.1   Location of that marking: ***Top or side of cover of the combustion heater***
4.    Category of vehicle: ***See Appendix***
5.    Name and address of manufacturer: ***KNK Grup Elektrik Elektronik Makina  
Imalati Yazılım Mekanik Tasarım San. Ve  
Tic. Ltd. Sti.  
Serifali Mah. Burhan Sk. No:1/1  
Umraniye/Istanbul, Turkey***
6.    In the case of components and separate technical units,  
location and method of affixing of the ECE approval mark: ***Printed on identification label***
7.    Address(es) of assembly plant(s): ***KNK Grup Elektrik Elektronik Makina  
Imalati Yazılım Mekanik Tasarım San. Ve  
Tic. Ltd. Sti.  
Serifali Mah. Burhan Sk. No:1/1  
Umraniye/Istanbul, Turkey***

Approval No: E24\*10R05/01\*2477\*00

8. Additional information (where applicable): *See appendix*
9. Technical service responsible for carrying out the tests: *Optival Test ve Belgelendirme A.S  
Yahyakaptan Mah. Beril Sk. No: 9/D  
41050 Kocaeli / Turkey*
10. Date of test report: *21.03.2018*
11. Number of test report: *OPH-T-00240-00 Rev01*
12. Remarks (if any): *See Appendix*
13. Place: *Dublin*
14. Date: *28<sup>th</sup> March, 2018.*
15. Signature: 
16. The index to the information package lodged with the approval authority, which may be obtained on request is attached.



## Appendix

To type-approval communication concerning the type approval  
of an electrical/electronic sub-assembly under Regulation No.10.

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|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Additional information                                                                                                |                                                                                                                                                                                      |
| 1.1. Electrical system rated voltage:                                                                                    | <b><i>12V &amp; 24V, negative ground</i></b>                                                                                                                                         |
| 1.2. This ESA can be used on any vehicle type with the following restrictions:                                           | <b><i>See manufacturer's specifications.</i></b>                                                                                                                                     |
| 1.2.1 Installation conditions, if any:                                                                                   | <b><i>See manufacturer's specifications.</i></b>                                                                                                                                     |
| 1.3. This ESA can only be used on the following vehicle types:                                                           | <b><i>N/A</i></b>                                                                                                                                                                    |
| 1.3.1 Installation conditions, if any:                                                                                   | <b><i>N/A</i></b>                                                                                                                                                                    |
| 1.4. The specific test method(s) used and the frequency ranges covered to determine immunity were:                       | <b><i>Bulk current injection method</i></b><br><b><i>Frequency range: 20 - 80 MHz</i></b><br><b><i>Free field testing method</i></b><br><b><i>Frequency range: 80 - 2000 MHz</i></b> |
| 1.5. Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests: | <b><i>Optival Test ve Belgelendirme A.S</i></b>                                                                                                                                      |
| 2. Remarks:                                                                                                              | <b><i>N/A</i></b>                                                                                                                                                                    |

Appendix to type-approval communication concerning the  
type approval of a vehicle under Regulation No.10.

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|------------------------------------------------------------------------------------------------------------------------|-------------------|
| 1. Additional information                                                                                              |                   |
| 2. Special devices for the purpose of Annex 4 to this Regulation:                                                      | <b><i>N/A</i></b> |
| 3. Electrical system rated voltage:                                                                                    | <b><i>N/A</i></b> |
| 4. Type of bodywork:                                                                                                   | <b><i>N/A</i></b> |
| 5. List of electronic systems installed in the tested vehicle(s) not limited to the items in the information document: | <b><i>N/A</i></b> |
| 5.1 Vehicle equipped with 24 GHz short-range radar equipment (yes/no):                                                 | <b><i>N/A</i></b> |
| 6. Laboratory accredited to ISO 17025 and recognized by the Approval Authority responsible for carrying out the tests: | <b><i>N/A</i></b> |
| 7. Remarks:                                                                                                            | <b><i>N/A</i></b> |