

# Radio Equipment Directive 2014/53/EU



Supplement to Owner's Manual

Importer:  
Opel / Vauxhall, Bahnhofplatz, 65423 Ruesselsheim am Main, Germany.

## Antenna module

### ASK Automotive Pvt. Ltd.

Unit 2 Plot No. 30-31, Fathepur-Nawada, Manesar, Gurugram,  
Haryana 122050 - India

### INFAC ELECS

Saneop-ro 155beon-gi Gwonseongu, Suwon city, Gyeonggi-do, Korea

### Kathrein Automotive GmbH

Roemerring 1, D-31137 Hildesheim, Germany

### Laird

Daimlerring 31, D-31135 Hildesheim, Germany

### Yokowo Manufacturing of America, LLC.

28221 Beck Road, Unit A-21, Wixom, MI 48394, U.S.A.

## DAB+ module

### Panasonic Automotive & Industrial Systems Europe GmbH

Robert-Bosch-Straße 27-29, D-63225 Langen, Germany

## Electronic key receiver

### Continental Automotive

1 Rue de Clairefontaine, 78120 Rambouillet, France  
Operation frequency: 125 kHz; Maximum output: 42 dBµA/m @ 10 m

### Denso Corporation

Waldeckerstraße 11, D-64546 Mörfelden-Walldorf, Germany  
Operation frequency: 125 kHz; Maximum output: -0.14 dBm

### Hella KGaA Hueck & Co.

Rixbecker Straße 75, D-59552 Lippstadt, Germany  
Operation frequency: 125 kHz; Maximum output: 22.665 dBµA/m @ 10 m

### Visteon Electronics

04 Rue Nelson Mandela, Zone Industrielle Borj Cedria, 2055 Bir El Bey, Tunisia  
Operation frequency: 125 kHz; Maximum output: 42 dBµA/m @ 10 m

## Electronic key transmitter

### ALPS ELECTRIC EUROPE GmbH

Ohmstrasse 4, D-85716 Unterschleissheim, Germany  
Operation frequency: 433 MHz; Maximum output: 10 mW ERP

### Continental Automotive

1 Rue de Clairefontaine, 78120 Rambouillet, France  
Operation frequency: 433 MHz; Maximum output: 10 mW ERP

### Denso Corporation

1-1, Showa-cho, Kariya-shi, Aichi-ken, 448-8661, Japan  
Operation frequency: 433.92 MHz; Maximum output: -5.88 dBm

### Hella KGaA Hueck & Co.

Rixbecker Straße 75, D-59552 Lippstadt, Germany  
Operation frequency: 433.92 MHz; Maximum output: 0.050 mW

### Valeo

43 Rue Bayen, 75017 Paris, France  
Operation frequency: 433.92 MHz; Maximum output: 10 dBm

## Immobiliser

### ALPS ELECTRIC EUROPE GmbH

Ohmstrasse 4, D-85716 Unterschleissheim, Germany  
Operation frequency: 125 kHz; Maximum output: 42 dBµA/m @ 10 m

### Continental Automotive GmbH

Siemensstrasse 12, D-93055 Regensburg, Germany  
Operation frequency: 125 kHz; Maximum output: 5.1 dBµA/m @ 10 m

### Continental Automotive GmbH

1 Rue de Clairefontaine, 78120 Rambouillet, France  
Operation frequency: 125 kHz; Maximum output: 42 dBµA/m @ 10 m

### Delphi Deutschland GmbH

Delphiplatz 1, D-42119 Wuppertal, Germany  
Operation frequency: 125 kHz; Maximum output: 42 dBµA/m @ 10 m

### KOSTAL of America, Inc.

350 Stephenson Hwy, Troy MI 48083, USA  
Operation frequency: 125 kHz; Maximum output: 5 dBµA/m @ 10 m

### Robert Bosch GmbH

Robert Bosch Platz 1, D-70839 Gerlingen, Germany  
Operation frequency: 125 kHz; Maximum output: 5.1 dBµA/m @ 10 m

## Infotainment systems

### Harman International Industries

Becker-Goering-Str. 16, D-76307 Karlsbad, Germany

Operation frequency (MHz)	Maximum output (dBm)
2400.0 - 2483.5	9
2400.0 - 2483.5	19
5725.0 - 5875	13.9

### LGE

LG Electronics European Shared Service Center B.V., Krijgsman 1, 1186 DM Amstelveen, The Netherlands

Operation frequency (MHz)	Maximum output (dBm)
2400.0 - 2483.5	4
2400.0 - 2483.5	13
5725.0 - 5850.0	13

### Continental Automotive

1 Rue de Clairefontaine, 78120 Rambouillet, France  
Operation frequency: 2400 - 2483.5 MHz; Maximum output: 100 mW EIRP

## Infotainment system CD 3.0 BT/ R 3.0 / CD 400+

### Humax Automotive Co. Ltd.

2, Yeongmun-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea  
Operation frequency: 2402 - 2480 MHz; Maximum output: 4 dBm EIRP

## Infotainment system CD 300 / CD 400

### Panasonic Automotive & Industrial Systems Europe GmbH

Robert-Bosch-Straße 27-29, D-63225 Langen, Germany

## Infotainment system CD50 MP3

### Delphi Deutschland GmbH

Delphiplatz 1, D-42119 Wuppertal, Germany  
Operation frequency: 2402 - 2480 MHz; Maximum output: 6 dBm

## Infotainment system CD 600

### Panasonic Automotive & Industrial Systems Europe GmbH

Robert-Bosch-Straße 27-29, D-63225 Langen, Germany  
Operation frequency: 2402 - 2480 MHz; Maximum output: 7.67 dBm

## Infotainment system IntelliLink Touch

### Continental Automotive GmbH

1 Rue de Clairefontaine, 78120 Rambouillet, France

## Infotainment system IntelliLink-e

### LGE

LG Electronics European Shared Service Center B.V., Krijgsman 1, 1186 DM Amstelveen, The Netherlands

Operation frequency (MHz)	Maximum output (dBm)
2400.0 - 2483.5	4
2400.0 - 2483.5	13
5725.0 - 5850.0	13

## Infotainment system Navi 50 / Navi 80 IntelliLink

### LGE

LG Electronics European Shared Service Center B.V., Krijgsman 1, 1186 DM Amstelveen, The Netherlands

Operation frequency: 2400 - 2483.5 MHz; Maximum output: 100 mW EIRP

## Infotainment system Navi 650 / Navi 950

### Panasonic Automotive & Industrial Systems Europe GmbH

Robert-Bosch-Straße 27-29, D-63225 Langen, Germany  
Operation frequency: 2402 - 2480 MHz; Maximum output: 7.67 dBm

## Infotainment system Navi 900 IntelliLink

### Robert Bosch Car Multimedia GmbH

Robert-Bosch-Straße 200, D-31139 Hildesheim, Germany

Operation frequency (MHz)	Maximum output (dBm)
2400 - 2480	10
2400 - 2480	20

### Delphi Deutschland GmbH

Delphiplatz 1, D-42119 Wuppertal, Germany

## Infotainment system R16 / R16 BT USB / CD18 BT USB

### Visteon Electronics

04 Rue Nelson Mandela, Zone Industrielle Borj Cedria, 2055 Bir El Bey, Tunisia  
Operation frequency: 2400 - 2483.5 MHz;  
Maximum output: 100 mW EIRP

## Infotainment system R300 / R300 BT

Humax Automotive Co. Ltd.

2, Yeongmun-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea

Operation frequency: 2402 - 2480 MHz; Maximum output: 4 dBm EIRP

## Infotainment system R 4.0

Clarion

244 rue du Pré à Varois, 54670 Custines - France

Operation frequency: 2400 - 2480 MHz; Maximum output: 4 dBm

## Infotainment system R 4.0 / Navi 4.0 IntelliLink

LGE

LG Electronics European Shared Service Center B.V., Krijgsman 1, 1186 DM

Amstelveen, The Netherlands

Operation frequency (MHz)	Maximum output (dBm)
2400.0 - 2483.5	4
2400.0 - 2483.5	13
5725.0 - 5850.0	13

## Infotainment system Navi 5.0 IntelliLink

Continental

LCIE Bureau Veritas-Site de Fontenay aux Roses, 33 avenue du général Leclerc,

92260 Fontenay aux Roses, France

Operation frequency: 2400 - 2483.5 MHz; Maximum output: 2.2 dBm

Operation frequency: 2400 - 2483.5 MHz; Maximum output: 15 dBm

## Infotainment system Stereo-CD-Radio

Robert Bosch Car Multimedia GmbH

Robert-Bosch-Straße 200, D-31139 Hildesheim, Germany

## OnStar module

LGE

LG Electronics European Shared Service Center B.V., Krijgsman 1, 1186 DM

Amstelveen, The Netherlands

Operation frequency (MHz)	Maximum output (dBm)
2402 - 2480	4
2412 - 2462	18
880 - 915	33
1710 - 1785	24
1850 - 1910	24
1920 - 1980	24
2500 - 2570	23

## Parking heater remote control receiver

Eberspaecher Climate Control Systems GmbH & Co. KG

Eberspaecherstrasse 24, D-73730 Esslingen, Germany

Webasto Thermo & Comfort SE

Friedrichshafener Str. 9, D-82205 Gilching, Germany

## Parking heater remote control transmitter

Eberspaecher Climate Control Systems GmbH & Co. KG

Eberspaecherstrasse 24, D-73730 Esslingen, Germany

Operation frequency: 434.6 MHz; Maximum output: 10 dBm

Webasto Thermo & Comfort SE

Friedrichshafener Str. 9, D-82205 Gilching, Germany

Operation frequency: 869 MHz; Maximum output: 14 dBm

## Radar unit

Autoliv B.V. & Co. KG

Postfach 1320, D-85203 Dachau, Germany

Operation frequency: 24.05 - 24.25 GHz; Maximum output: 16 EIRP dBm

Continental Automotive GmbH

ADC Automotive Distance Control Systems GmbH, Peter-Dornier-Strasse 10,

D-88131 Lindau, Germany

Operation frequency: 76 - 77 GHz; Maximum output: 30 EIRP dBm

Operation frequency: 76 - 77 GHz; Maximum output: 35 EIRP dBm

Delphi Deutschland GmbH

Delphiplatz 1, D-42119 Wuppertal, Germany

Operation frequency: 76 - 77 GHz; Maximum output: 55 EIRP dBm

Hella KGaA Hueck & Co.

Rixbecker Straße 75, D-59552 Lippstadt, Germany

Operation frequency: 24.05 - 24.25 GHz; Maximum output: 20 EIRP dBm

ZF TRW Autocruise SAS

Secteur de la Pointe du Diable, Avenue du technopôle, 29280 PLOUZANE, France

Operation frequency: 24.15 - 24.25 GHz; Maximum output: 20 dBm

## Smart phone remote module

Denso Corporation

Waldeckerstraße 11, D-64546 Mörfelden-Walldorf, Germany

Operation frequency: 2400 - 2482 MHz; Maximum output: 3 dBm

## Radio remote control receiver

Continental Automotive GmbH

Siemensstraße 12, D-93055 Regensburg, Germany

Operation frequency: 433.92 MHz; Maximum output: N/A

Delphi Deutschland GmbH

Delphiplatz 1, D-42119 Wuppertal, Germany

Operation frequency: 433.92 MHz; Maximum output: N/A

Delphi European, Middle Eastern & African Regional Offices

Customer Technology Center, Avenue de Luxembourg,

L-4940 Bascharage G.D. of Luxembourg

Operation frequency: 119.0 - 128.6 kHz; Maximum output: 16 dBµA/m @ 10 m

Robert Bosch GmbH

Robert Bosch Platz 1, D-70839 Gerlingen, Germany

Operation frequency: 433.92 MHz; Maximum output: N/A

Visteon Electronics

04 Rue Nelson Mandela, Zone Industrielle Borj Cedria, 2055 Bir El Bey, Tunisia

Operation frequency: 433 MHz; Maximum output: 10 mW ERP

## Radio remote control transmitter

Continental Automotive GmbH

Siemensstraße 12, D-93055 Regensburg, Germany

Operation frequency: 433.92 MHz; Maximum output: -5.7 dbm

Delphi Deutschland GmbH

Delphiplatz 1, D-42119 Wuppertal, Germany

Operation frequency: 433.92 MHz; Maximum output: 10 mW ERP

Hülsbeck & Fürst GmbH & Co. KG

Steeger Str. 17, D-42551 Velbert, Germany

Operation frequency: 433.92 MHz; Maximum output: 10 dBm

Robert Bosch GmbH

Robert Bosch Platz 1, D-70839 Gerlingen, Germany

Operation frequency: 433.92 MHz; Maximum output: -4 dbm

Visteon Electronics

04 Rue Nelson Mandela, Zone Industrielle Borj Cedria, 2055 Bir El Bey, Tunisia

Operation frequency: 433 MHz; Maximum output: 10 mW ERP

## Rear view camera display

Ficosa International

Gran Via de Carles III, 98, 08028 Barcelona, Spain

Operation frequency (MHz)	Maximum output (dBm)
824 - 894	39
880 - 960	39
1710 - 1880	36
1850 - 1890	33

## Navigation module

TomTom Int'l BV

De Ruijterkade 154, 1011 AC Amsterdam, The Netherlands

Operation frequency: 2400 - 2483.5 MHz; Maximum output: 100 mW EIRP

## Telematics module

Masternaut International

4 rue Charles Cros, 27400 Louviers, France

Operation frequency: 900 MHz; Maximum output: 33 dBm

Operation frequency: 1800 MHz; Maximum output: 30 dBm

## Tyre pressure sensors

Schrader Electronics Ltd.

11 Technology Park, Belfast Road, Antrim BT41 1QS, Northern Ireland, UK

Operation frequency: 433.92 MHz; Maximum output: 10 dBm

Schrader Electronics

Trooperslane Industrial Estate, 2 Meadowbank Rd, Carrickfergus BT38 8YF, UK

Operation frequency: 433 MHz; Maximum output: 10 mW ERP

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