

Blind Spot Assist inoperative

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|-------------------|---|
| Topic number | LI54.71-P-056477 |
| Version | 2 |
| Design group | 54.71 Lane assist |
| Date | 02-25-2014 |
| Validity | Model series 164 with code 234 (Blind Spot Assist): Model series 212 with code 234 (Blind Spot Assist) or code 237 (Active Blind Spot Assist), code 800 or code 801 or code 802 Model series 218 with code 234 (Blind Spot Assist) or code 237 (Active Blind Spot Assist), code 800 or code 801 or code 802 |
| Reason for change | Part number |
| Reason for block | |

Complaint:

Blind Spot Assist inoperative.

Cause:

Water ingress into the rear short-range radar sensors.

Notes on diagnosis:

Model series 164 with code 234 (Blind Spot Assist):

- Malfunctions on the engine compartment CAN (CAN C) are possible
- In control units on the CAN C, CAN communication errors may be logged with the rear short-range radar sensors (IRS-HLA B29/4 and IRS-HRA B29/5 control units).
- Diagnostic communications with control units on the CAN C may not be possible.

Model series 212/218 up to code 800 (Model year 2010) with code 234 (Blind Spot Assist):

- Malfunctions on the sensor CAN (CAN S) are possible
- In the radar sensors control unit (N62/1), CAN communication errors may be logged with the rear short-range radar sensors (B29/6 and B29/7).
- Communications with control units on the CAN S may not be possible.

Model series 212/218 as of code 801 (Model year 2011) with code 234 (Blind Spot Assist):

- Malfunctions on the front end CAN (CAN G) are possible
- Control units on the CAN G may exhibit CAN communication errors with the rear short-range radar sensors (IRS-HLA B29/4 and IRS-HRA B29/5 control units).
- Diagnostic communications with control units on the CAN G may not be possible.

Model series 212/218 with code 237 (Active Blind Spot Assist):

- Malfunctions on the sensor CAN (CAN S) are possible
- In the video and radar sensor system control unit (N62/2), CAN communication errors may be logged with the rear short-range radar sensors (B29/6 and B29/7).
- Communications with control units on the CAN S may not be possible.

Remedy:

1. Remove rear bumper.
2. Remove rear short-range radar sensors, check connector/contact for corrosion and repair if necessary.
3. Make additional holes or cutouts in the brackets for the rear short-range radar sensors (see attachments).
4. Install short-range radar sensors with additional silicone sealing (see parts ordering note).

5. Install rear bumper.

| Attachments | |
|---------------------------|--|
| File | Designation |
| Bohrungen Halter 212.pdf | <p>Model series 212/218, reworking brackets of rear short-range radar sensors (shown on left bracket)</p> <p>A - Left bracket in rear bumper</p> <p>B - Drill holes with diameter of 6 mm in the marked areas and deburr. 1 - 2 holes in this area. 2 - NO holes in the area of the flange. 3 - 5 holes in this area. 4 - NO holes in the area of the flange. 5 - 2 holes in this area.</p> <p>C - Reworked bracket.</p> <p>Note: Rework the right bracket in the same way.</p> |
| Zuschnitt Halter W164.pdf | <p>W164, reworking brackets of rear short-range radar sensors (shown on left bracket)</p> <p>A - Overview of lateral support brackets for rear bumper with bracket for short-range radar sensor.</p> <p>B - Scribe and cut out marked areas according to dimensions specified. Deburr cut edges.</p> <p>C - Reworked bracket.</p> <p>Note: Rework the right bracket in the same way in mirror image.</p> |
| Zuschnitt Halter X164.pdf | <p>X164, reworking brackets of short-range radar sensors (shown on left bracket)</p> <p>A - Overview of lateral support brackets for rear bumper with bracket for short-range radar sensor.</p> <p>B - Scribe and cut out marked areas according to dimensions specified. Deburr cut edges.</p> <p>C - Reworked bracket.</p> <p>Note: Rework the right bracket in the same way in mirror image.</p> |

| Symptoms |
|--|
| Overall vehicle / Networking / CAN/FlexRay communication / Malfunction |
| Overall vehicle / Networking / Diagnosis/software / Not diagnosable |
| Communication/information / Warning and control system / Blind spot assist / No display |
| Communication/information / Warning and control system / Blind spot assist / Display without obvious cause |

Communication/information / Warning and control system / Blind spot assist / Warning message in instrument cluster

Communication/information / Warning and control system / Blind spot assist / Nonfunctional

| Control unit/fault code | | |
|--|------------|--|
| Control unit | Fault code | Fault text |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 552000 | Event:Engine compartment CAN databus:CAN bus OFF |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 552110 | Event:No CAN message was received from control unit N80 (Steering column module). |
| N62/1 (Radar sensors control unit) (RDU_212) (E (212),CLS (218)) | 650600 | CAN communication with component 'B29/7 (Right rear bumper radar sensor)' has a malfunction. |
| IRS-HLA-Outer left rear intelligent radar sensor system (IBSMR4) (M (164),GL (164)) | 582105 | Event:No CAN message was received from control unit N93 (Central gateway control unit). |
| IRS-HLA-Outer left rear intelligent radar sensor system (IBSMR4) (M (164),GL (164)) | 582109 | Event:No CAN message was received from control unit A1 (Instrument cluster). |
| IRS-HLA-Outer left rear intelligent radar sensor system (IBSMR4) (M (164),GL (164)) | 582106 | Event:No CAN message was received from control unit N93 (Central gateway control unit). |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 552100 | Event:No CAN message was received from control unit N47-5 (ESP control unit). |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 552103 | Event:No CAN message was received from control unit N93 (Central gateway control unit). |
| IRS-HLA-Outer left rear intelligent radar sensor system (IBSMR4) (M (164),GL (164)) | 582101 | Event:No CAN message was received from control unit N47-5 (ESP control unit). |
| N62/1 (Radar sensors control unit) (RDU_212) (E (212),CLS (218)) | 650200 | CAN communication with component 'B29/7 (Right rear bumper radar sensor)' has a malfunction. |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 55210A | Event:No CAN message was received from control unit N73 (EIS [EZS] control unit). |
| IRS-HLA-Outer left rear intelligent radar sensor system (IBSMR4) (M (164),GL (164)) | 582100 | Event:No CAN message was received from control unit N47-5 (ESP control unit). |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 552207 | Event:CAN signal 'Blind spot assist' from control unit A1 (Instrument cluster) is implausible. |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 55210E | Event:No CAN message was received from control unit ME motor electronics. |

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| N62/1 (Radar sensors control unit) (RDU_212) (E (212),CLS (218)) | 650700 | CAN communication with component 'B29/7 (Right rear bumper radar sensor)' has a malfunction. |
| IRS-HLA-Outer left rear intelligent radar sensor system (IBSMR4) (M (164),GL (164)) | 58210B | Event:No CAN message was received from control unit A40/3 (COMAND control unit). |
| IRS-HLA-Outer left rear intelligent radar sensor system (IBSMR4) (M (164),GL (164)) | 582110 | Event:No CAN message was received from control unit N80 (Steering column module). |
| IRS-HLA-Outer left rear intelligent radar sensor system (IBSMR4) (M (164),GL (164)) | 582107 | Event:No CAN message was received from control unit N93 (Central gateway control unit). |
| N62/1 (Radar sensors control unit) (RDU_212) (E (212),CLS (218)) | 680600 | CAN communication with component 'B29/6 (Left rear bumper radar sensor)' has a malfunction. |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 552203 | Event:CAN signal 'Turn signals' from control unit N80 (Steering column module) is implausible. |
| IRS-HLA-Outer left rear intelligent radar sensor system (IBSMR4) (M (164),GL (164)) | 582108 | Event:No CAN message was received from control unit N93 (Central gateway control unit). |
| N62/1 (Radar sensors control unit) (RDU_212) (E (212),CLS (218)) | 680100 | CAN communication with component 'B29/6 (Left rear bumper radar sensor)' has a malfunction. |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 552107 | Event:No CAN message was received from control unit N93 (Central gateway control unit). |
| IRS-HLA-Outer left rear intelligent radar sensor system (IBSMR4) (M (164),GL (164)) | 58210A | Event:No CAN message was received from control unit N73 (EIS [EZS] control unit). |
| N62/1 (Radar sensors control unit) (RDU_212) (E (212),CLS (218)) | 581100 | CAN communication with component 'B29/6 (Left rear bumper radar sensor)' has a malfunction. |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 552102 | Event:No CAN message was received from control unit N47-5 (ESP control unit). |
| IRS-HLA-Outer left rear intelligent radar sensor system (IBSMR4) (M (164),GL (164)) | 58210C | Event:No CAN message was received from control unit ME motor electronics. |
| N62/1 (Radar sensors control unit) (RDU_212) (E (212),CLS (218)) | 650800 | CAN communication with component 'B29/7 (Right rear bumper radar sensor)' has a malfunction. |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 552101 | Event:No CAN message was received from control unit N47-5 (ESP control unit). |
| IRS-HLA-Outer left rear intelligent radar sensor system (IBSMR4) (M (164),GL (164)) | 58210D | Event:No CAN message was received from control unit ME motor electronics. |
| N62/1 (Radar sensors control unit) (RDU_212) (E (212),CLS (218)) | 650900 | CAN communication with component 'B29/7 (Right rear bumper radar sensor)' has a malfunction. |

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| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 552204 | Event:CAN signal 'Wheel speeds' from control unit N47-5 (ESP control unit) is implausible. |
| IRS-HLA-Outer left rear intelligent radar sensor system (IBSMR4) (M (164),GL (164)) | 582104 | Event:No CAN message was received from control unit N93 (Central gateway control unit). |
| N62/1 (Radar sensors control unit) (RDU_212) (E (212),CLS (218)) | 680700 | CAN communication with component 'B29/6 (Left rear bumper radar sensor)' has a malfunction. |
| IRS-HLA-Outer left rear intelligent radar sensor system (IBSMR4) (M (164),GL (164)) | 58210E | Event:No CAN message was received from control unit ME motor electronics. |
| N62/1 (Radar sensors control unit) (RDU_212) (E (212),CLS (218)) | 681000 | null |
| N62/1 (Radar sensors control unit) (RDU_212) (E (212),CLS (218)) | 680200 | CAN communication with component 'B29/6 (Left rear bumper radar sensor)' has a malfunction. |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 55210F | Event:No CAN message was received from control unit N80 (Steering column module). |
| N62/1 (Radar sensors control unit) (RDU_212) (E (212),CLS (218)) | 650100 | CAN communication with component 'B29/7 (Right rear bumper radar sensor)' has a malfunction. |
| IRS-HLA-Outer left rear intelligent radar sensor system (IBSMR4) (M (164),GL (164)) | 582103 | Event:No CAN message was received from control unit N93 (Central gateway control unit). |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 55210B | Event:No CAN message was received from control unit A40/3 (COMAND control unit). |
| N62/1 (Radar sensors control unit) (RDU_212) (E (212),CLS (218)) | 680900 | CAN communication with component 'B29/6 (Left rear bumper radar sensor)' has a malfunction. |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 552109 | Event:No CAN message was received from control unit A1 (Instrument cluster). |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 55210C | Event:No CAN message was received from control unit ME motor electronics. |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 552104 | Event:No CAN message was received from control unit N93 (Central gateway control unit). |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 552205 | Event:CAN signal 'Trailer fitted' from control unit N10/8 (Rear SAM control unit) is implausible. |
| N62/1 (Radar sensors control unit) (RDU_212) (E (212),CLS (218)) | 690900 | Sensor CAN bus : CAN bus OFF fault |
| IRS-HLA-Outer left rear intelligent radar sensor system (IBSMR4) (M (164),GL (164)) | 582102 | Event:No CAN message was received from control unit N47-5 (ESP control unit). |

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| IRS-HLA-Outer left rear intelligent radar sensor system (IBSMR4) (M (164),GL (164)) | 58210F | Event:No CAN message was received from control unit N80 (Steering column module). |
| N62/1 (Radar sensors control unit) (RDU_212) (E (212),CLS (218)) | 651000 | null |
| N62/1 (Radar sensors control unit) (RDU_212) (E (212),CLS (218)) | 690800 | Sensor CAN bus : CAN bus OFF fault |
| N62/1 (Radar sensors control unit) (RDU_212) (E (212),CLS (218)) | 680800 | CAN communication with component 'B29/6 (Left rear bumper radar sensor)' has a malfunction. |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 552108 | Event:No CAN message was received from control unit N93 (Central gateway control unit). |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 552206 | Event:CAN signal 'Reverse gear engaged' from control unit ISM is implausible. |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 55210D | Event:No CAN message was received from control unit ME motor electronics. |
| N62/1 (Radar sensors control unit) (RDU_212) (E (212),CLS (218)) | 551100 | CAN communication with component 'B29/7 (Right rear bumper radar sensor)' has a malfunction. |
| IRS-HLA-Outer left rear intelligent radar sensor system (IBSMR4) (M (164),GL (164)) | 580500 | Communication fault with component B29/4 (Left rear bumper intelligent radar sensor) |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 552105 | Event:No CAN message was received from control unit N93 (Central gateway control unit). |
| N62/1 (Radar sensors control unit) (RDU_212) (E (212),CLS (218)) | 690200 | Sensor CAN bus : CAN bus OFF fault |
| IRS-HLA-Outer left rear intelligent radar sensor system (IBSMR4) (M (164),GL (164)) | 582000 | Event:Engine compartment CAN databus:CAN bus OFF |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 552002 | Event:No CAN message received from component B29/4 (Left rear bumper intelligent radar sensor). |
| IRS-HRA-Outer right rear intelligent radar sensor system (IBSMR1) (M (164),GL (164)) | 552106 | Event:No CAN message was received from control unit N93 (Central gateway control unit). |

| Parts | | | | | | | |
|-----------------|-----|-----|--------------|----------|--|-----|-----------------|
| Part number | ES1 | ES2 | Designation | Quantity | Note | EPC | Other make part |
| A 000 905 02 10 | | | Radar sensor | 2 | For model series 164 with code 234 (Blind Spot Assist) | X | |

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|-----------------|--|--|--------------|---|--|---|--|
| | | | | | For model series 212 with code 234 (Blind Spot Assist) and code 801 or code 802 (Model year 2011) Q-status >9 | | |
| A 000 905 01 10 | | | Radar sensor | 2 | For model series 212 / 218 with code 237 (Active Blind Spot Assist) and code 800 or code 801 or code 802 For model series 212 / 218 with code 234 (Active Blind Spot Assist) and code 800 | X | |

| Work units | | | | |
|------------|--|------|-------------|------|
| Op. no. | Operation text | Time | Damage code | Note |
| 54-1975 | REPLACE REAR SENSOR UNIT OF BLIND SPOT ASSIST, QUANTITY:..... (BUMPER REMOVED) | | 54H13 72 | |
| 88-8802 | REMOVE/INSTALL REAR BUMPER COMPLETE | | 54H13 72 | |

| WIS-References | | | |
|------------------|--|----------------------|------------|
| Document number | Title | Note | Allocation |
| AR54.71-P-0100EW | Remove/install sensors for Blind Spot Assist | Model series 212/218 | Remedy |
| AR88.20-P-2200EW | Remove/install rear bumper | Model series 212/218 | Remedy |
| AR88.20-P-2200GZ | Remove/install rear bumper | Model series 164 | Remedy |

| Validity | | |
|----------|--------|--------------|
| Vehicle | Engine | Transmission |
| 212.002 | * | * |
| 212.003 | * | * |
| 212.005 | * | * |
| 212.020 | * | * |
| 212.021 | * | * |
| 212.023 | * | * |
| 212.024 | * | * |
| 212.025 | * | * |
| 212.041 | * | * |
| 212.047 | * | * |
| 212.048 | * | * |
| 212.052 | * | * |

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|---------|---|---|
| 212.053 | * | * |
| 212.054 | * | * |
| 212.055 | * | * |
| 212.056 | * | * |
| 212.057 | * | * |
| 212.059 | * | * |
| 212.072 | * | * |
| 212.073 | * | * |
| 212.074 | * | * |
| 212.077 | * | * |
| 212.080 | * | * |
| 212.082 | * | * |
| 212.087 | * | * |
| 212.088 | * | * |
| 212.089 | * | * |
| 212.090 | * | * |
| 212.091 | * | * |
| 212.093 | * | * |
| 212.095 | * | * |
| 212.097 | * | * |
| 212.098 | * | * |
| 212.147 | * | * |
| 212.148 | * | * |
| 212.154 | * | * |
| 212.202 | * | * |
| 212.203 | * | * |
| 212.205 | * | * |
| 212.220 | * | * |
| 212.221 | * | * |
| 212.223 | * | * |
| 212.224 | * | * |
| 212.225 | * | * |
| 212.247 | * | * |
| 212.248 | * | * |
| 212.254 | * | * |
| 212.255 | * | * |
| 212.256 | * | * |
| 212.257 | * | * |
| 212.259 | * | * |
| 212.272 | * | * |
| 212.273 | * | * |
| 212.274 | * | * |
| 212.277 | * | * |

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|----------|---|---|
| 212.280 | * | * |
| 212.282 | * | * |
| 212.287 | * | * |
| 212.288 | * | * |
| 212.289 | * | * |
| 212.291 | * | * |
| 212.293 | * | * |
| 212.298 | * | * |
| 218.303 | * | * |
| 218.323 | * | * |
| 218.326 | * | * |
| 218.355 | * | * |
| 218.359 | * | * |
| 218.373 | * | * |
| 218.374 | * | * |
| 218.375 | * | * |
| 218.376 | * | * |
| 218.391 | * | * |
| 218.392 | * | * |
| 218.393 | * | * |
| 218.394 | * | * |
| 218.903 | * | * |
| 218.923 | * | * |
| 218.959 | * | * |
| 218.973 | * | * |
| 218.974 | * | * |
| 218.975 | * | * |
| 218.976 | * | * |
| 218.991 | * | * |
| 218.992 | * | * |
| 218.993 | * | * |
| GL (164) | * | * |
| M (164) | * | * |

Full model designation breakdown

| Vehicle | Engine | Transmission |
|---------|---------|--------------|
| 164.120 | 642.940 | 722.902 |
| 164.121 | 642.820 | 722.902 |
| 164.122 | 642.940 | 722.902 |
| 164.124 | 642.820 | 722.902 |
| 164.125 | 642.820 | 722.902 |
| 164.128 | 629.912 | 722.903 |

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|---------|---------|---------|
| 164.156 | 272.967 | 722.906 |
| 164.172 | 273.963 | 722.904 |
| 164.175 | 113.964 | 722.901 |
| 164.177 | 156.980 | 722.907 |
| 164.182 | 272.945 | 722.999 |
| 164.186 | 272.967 | 722.906 |
| 164.195 | 272.973 | 722.550 |
| 164.822 | 642.940 | 722.902 |
| 164.823 | 642.822 | 722.903 |
| 164.824 | 642.820 | 722.902 |
| 164.825 | 642.820 | 722.902 |
| 164.828 | 629.912 | 722.903 |
| 164.871 | 273.923 | 722.904 |
| 164.886 | 273.963 | 722.904 |
| 212.002 | 651.924 | 711.653 |
| 212.002 | 651.924 | 716.656 |
| 212.002 | 651.924 | 722.646 |
| 212.002 | 651.924 | 722.908 |
| 212.002 | 651.924 | 725.011 |
| 212.003 | 651.924 | 711.670 |
| 212.003 | 651.924 | 722.646 |
| 212.003 | 651.924 | 722.908 |
| 212.003 | 651.924 | 725.011 |
| 212.005 | 651.925 | 711.653 |
| 212.005 | 651.925 | 716.656 |
| 212.005 | 651.925 | 722.694 |
| 212.005 | 651.925 | 722.996 |
| 212.005 | 651.925 | 725.011 |
| 212.020 | 642.850 | 722.902 |
| 212.021 | 642.852 | 711.670 |
| 212.021 | 642.852 | 722.903 |
| 212.021 | 642.852 | 725.011 |
| 212.023 | 642.852 | 711.670 |
| 212.023 | 642.852 | 722.903 |
| 212.023 | 642.852 | 725.011 |
| 212.024 | 642.850 | 711.670 |
| 212.024 | 642.850 | 722.902 |
| 212.024 | 642.850 | 725.011 |
| 212.025 | 642.850 | 711.670 |
| 212.025 | 642.850 | 722.902 |
| 212.025 | 642.850 | 725.011 |
| 212.025 | 642.856 | 711.670 |
| 212.025 | 642.856 | 722.902 |

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|---------|---------|---------|
| 212.025 | 642.856 | 725.011 |
| 212.041 | 271.958 | 722.695 |
| 212.047 | 271.860 | 722.618 |
| 212.047 | 271.860 | 722.997 |
| 212.048 | 271.860 | 711.655 |
| 212.048 | 271.860 | 716.612 |
| 212.048 | 271.860 | 722.696 |
| 212.048 | 271.860 | 722.997 |
| 212.052 | 272.923 | 716.636 |
| 212.052 | 272.923 | 722.998 |
| 212.053 | 272.980 | 722.906 |
| 212.054 | 272.952 | 711.654 |
| 212.054 | 272.952 | 722.999 |
| 212.055 | 276.952 | 722.906 |
| 212.056 | 272.980 | 722.906 |
| 212.057 | 272.983 | 722.906 |
| 212.059 | 276.952 | 722.906 |
| 212.072 | 273.971 | 722.904 |
| 212.073 | 278.922 | 722.909 |
| 212.073 | 278.922 | 725.011 |
| 212.073 | 278.922 | 725.032 |
| 212.074 | 157.981 | 722.931 |
| 212.074 | 157.981 | 722.965 |
| 212.077 | 156.985 | 722.930 |
| 212.080 | 276.952 | 722.960 |
| 212.082 | 651.924 | 722.965 |
| 212.087 | 272.977 | 722.960 |
| 212.088 | 276.952 | 722.960 |
| 212.089 | 642.856 | 722.962 |
| 212.090 | 273.970 | 722.961 |
| 212.091 | 278.922 | 722.967 |
| 212.091 | 278.922 | 725.021 |
| 212.093 | 642.858 | 722.966 |
| 212.093 | 642.858 | 725.021 |
| 212.095 | 276.952 | 724.206 |
| 212.097 | 651.924 | 722.965 |
| 212.098 | 651.924 | 724.208 |
| 212.147 | 271.860 | 722.618 |
| 212.147 | 271.860 | 722.997 |
| 212.148 | 271.860 | 711.655 |
| 212.148 | 271.860 | 722.696 |
| 212.148 | 271.860 | 722.997 |
| 212.154 | 272.952 | 711.654 |

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|---------|---------|---------|
| 212.154 | 272.952 | 722.999 |
| 212.202 | 651.924 | 711.653 |
| 212.202 | 651.924 | 716.656 |
| 212.202 | 651.924 | 722.646 |
| 212.202 | 651.924 | 722.908 |
| 212.202 | 651.924 | 725.011 |
| 212.203 | 651.924 | 711.670 |
| 212.203 | 651.924 | 722.646 |
| 212.203 | 651.924 | 722.908 |
| 212.203 | 651.924 | 725.011 |
| 212.205 | 651.925 | 711.653 |
| 212.205 | 651.925 | 716.656 |
| 212.205 | 651.925 | 722.694 |
| 212.205 | 651.925 | 722.996 |
| 212.205 | 651.925 | 725.011 |
| 212.220 | 642.850 | 722.902 |
| 212.221 | 642.852 | 711.670 |
| 212.221 | 642.852 | 722.903 |
| 212.221 | 642.852 | 725.011 |
| 212.223 | 642.852 | 711.670 |
| 212.223 | 642.852 | 722.903 |
| 212.223 | 642.852 | 725.011 |
| 212.224 | 642.850 | 711.670 |
| 212.224 | 642.850 | 722.902 |
| 212.224 | 642.850 | 725.011 |
| 212.225 | 642.850 | 711.670 |
| 212.225 | 642.850 | 722.902 |
| 212.225 | 642.850 | 725.011 |
| 212.247 | 271.860 | 722.618 |
| 212.247 | 271.860 | 722.997 |
| 212.248 | 271.860 | 711.655 |
| 212.248 | 271.860 | 716.612 |
| 212.248 | 271.860 | 722.696 |
| 212.248 | 271.860 | 722.997 |
| 212.254 | 272.952 | 711.654 |
| 212.254 | 272.952 | 722.999 |
| 212.255 | 276.952 | 722.906 |
| 212.256 | 272.980 | 722.906 |
| 212.257 | 272.983 | 722.906 |
| 212.259 | 276.952 | 722.906 |
| 212.272 | 273.971 | 722.904 |
| 212.273 | 278.922 | 722.909 |
| 212.273 | 278.922 | 725.011 |

| | | |
|---------|---------|---------|
| 212.273 | 278.922 | 725.032 |
| 212.273 | 278.922 | 725.033 |
| 212.274 | 157.981 | 722.931 |
| 212.277 | 156.985 | 722.930 |
| 212.280 | 276.952 | 722.960 |
| 212.282 | 651.924 | 722.965 |
| 212.287 | 272.977 | 722.960 |
| 212.288 | 276.952 | 722.960 |
| 212.289 | 642.856 | 722.962 |
| 212.291 | 278.922 | 722.967 |
| 212.291 | 278.922 | 725.021 |
| 212.293 | 642.858 | 722.966 |
| 212.293 | 642.858 | 725.021 |
| 212.298 | 651.924 | 724.208 |
| 218.303 | 651.924 | 722.908 |
| 218.303 | 651.924 | 725.011 |
| 218.323 | 642.852 | 722.903 |
| 218.323 | 642.852 | 725.011 |
| 218.323 | 642.853 | 722.903 |
| 218.323 | 642.853 | 725.011 |
| 218.326 | 642.852 | 722.903 |
| 218.326 | 642.852 | 725.011 |
| 218.355 | 276.952 | 722.906 |
| 218.359 | 276.952 | 722.906 |
| 218.359 | 276.952 | 725.011 |
| 218.373 | 278.922 | 722.909 |
| 218.373 | 278.922 | 725.011 |
| 218.374 | 157.981 | 722.931 |
| 218.375 | 157.981 | 722.931 |
| 218.376 | 157.981 | 722.971 |
| 218.391 | 278.922 | 722.967 |
| 218.391 | 278.922 | 725.041 |
| 218.392 | 157.981 | 722.971 |
| 218.393 | 642.854 | 722.966 |
| 218.393 | 642.858 | 722.966 |
| 218.394 | 642.858 | 722.966 |
| 218.903 | 651.924 | 722.908 |
| 218.903 | 651.924 | 725.011 |
| 218.923 | 642.852 | 722.903 |
| 218.923 | 642.852 | 725.011 |
| 218.923 | 642.853 | 722.903 |
| 218.923 | 642.853 | 725.011 |
| 218.959 | 276.952 | 722.906 |

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|---------|---------|---------|
| 218.959 | 276.952 | 725.011 |
| 218.973 | 278.922 | 722.909 |
| 218.973 | 278.922 | 725.011 |
| 218.974 | 157.981 | 722.931 |
| 218.975 | 157.981 | 722.931 |
| 218.976 | 157.981 | 722.971 |
| 218.991 | 278.922 | 722.967 |
| 218.991 | 278.922 | 725.041 |
| 218.992 | 157.981 | 722.971 |
| 218.993 | 642.854 | 722.966 |
| 218.993 | 642.858 | 722.966 |