

## Workshop Manual

Audi A1 2011 ➤ , Audi A3 2004 ➤ ,  
Audi A4 2008 ➤ , Audi A4 2015 ➤ ,  
Audi A5 Cabriolet 2009 ➤ ,  
Audi A5 Coupé 2008 ➤ , Audi A6 2011 ➤ ,  
Audi A8 2010 ➤ , Audi Q3 2012 ➤ ,  
Audi Q5 2008 ➤ , Audi Q7 2007 ➤ ,  
Audi Q7 2016 ➤ , Audi R8 2007 ➤ ,  
Audi TT 2007 ➤

**Specifications for testing the braking force (according to German legislation)**

Edition 07.2016



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## List of Workshop Manual Repair Groups

### Repair Group

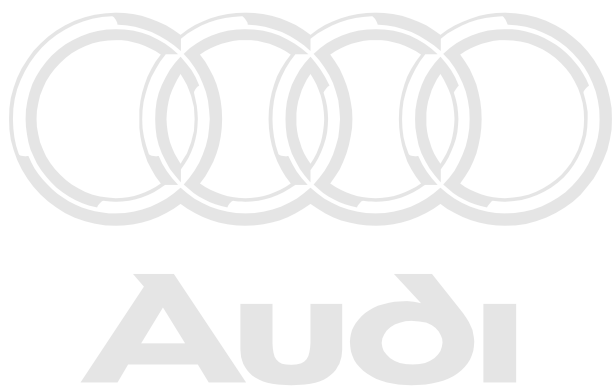
00 - Technical data

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Technical information should always be available to the foremen and mechanics, because their careful and constant adherence to the instructions is essential to ensure vehicle road-worthiness and safety. In addition, the normal basic safety precautions for working on motor vehicles must, as a matter of course, be observed.

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## 00 – Technical data

### 1 Testing the braking force

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#### 1.1 Legal requirements

With the modifications to EU regulations on the monitoring of the roadworthiness of motor vehicles (EU Directives 2009/40/EC and 2010/48/EU), it became necessary to adapt §29 of the German Road Traffic Permit Act (StVZO) on the inspection of motor vehicles and their trailers (general inspection). According to the 47th Variations Regulation, from 1/8/2012 onwards new inspection specifications apply amongst other things for testing the foot brake of EU class M1 vehicles (passenger cars with up to 9 seats) with an initial registration date of 28/7/2011 and later.

M1 class vehicles are vehicles used for the carriage of passengers with a maximum of 9 seats (incl. the driver's seat), colloquially termed passenger cars and caravans.

The test method and specifications are implemented in the software for the brake test equipment.

#### 1.2 Specifications for testing the braking force



##### Note

- ◆ *In Germany, the braking force test is carried out as part of the general inspection (§29 of the German StVZO) by a testing organisation authorised in the Federal Republic of Germany on brake test equipment suitable for this purpose.*
- ◆ *The brake test equipment must meet certain requirements. For more details, please contact the brake test equipment's manufacturer directly.*
- ◆ *All brake test equipment approved by AUDI AG meets these requirements.*

The specifications apply for all model and engine versions of the individual vehicle types.

| Model           | Type | Specifications according to §29 of StVZO |                |                |                       |                      |
|-----------------|------|------------------------------------------|----------------|----------------|-----------------------|----------------------|
|                 |      | FPED-MAX [N]                             | FPED [N] above | FPED [N] below | F min, front axle [%] | F min, rear axle [%] |
| Audi A1         | 8X   | 160                                      | 48             | 145            | 55                    | 16                   |
| Audi A3         | 8P   | 200                                      | 45             | 156            | 51                    | 18                   |
| Audi A3         | 8V   | 158                                      | 46             | 127            | 56                    | 16                   |
| Audi A4         | 8E   | 206                                      | 37             | 279            | 57                    | 16                   |
| Audi A4         | 8K   | 147                                      | 44             | 221            | 50                    | 22                   |
| Audi A4 allroad | 8KH  | 151                                      | 44             | 221            | 50                    | 22                   |
| Audi A4         | 8W   | 166                                      | 44             | 219            | 52                    | 18                   |



| Model             | Type | Specifications according to §29 of StVZO |                |                |                        |                       |
|-------------------|------|------------------------------------------|----------------|----------------|------------------------|-----------------------|
|                   |      | FPED-MAX [N]                             | FPED [N] above | FPED [N] below | F min., front axle [%] | F min., rear axle [%] |
| Audi A4 allroad   | 8W   | 171                                      | 44             | 219            | 52                     | 18                    |
| Audi A5 Coupé     | 8T   | 147                                      | 44             | 221            | 50                     | 18                    |
| Audi A5 Cabriolet | 8F   | 147                                      | 44             | 221            | 50                     | 22                    |
| Audi A6           | 4F   | 154                                      | 44             | 221            | 52                     | 19                    |
| Audi A6           | 4G   | 154                                      | 44             | 221            | 52                     | 19                    |
| Audi A7           | 4G   | 154                                      | 44             | 221            | 52                     | 19                    |
| Audi A8           | 4E   | 193                                      | 44             | 186            | 50                     | 19                    |
| Audi A8           | 4H   | 151                                      | 44             | 221            | 52                     | 19                    |
| Audi TT           | 8J   | 141                                      | 47             | 129            | 57                     | 15                    |
| Audi TT           | FV   | 126                                      | 46             | 127            | 56                     | 16                    |
| Audi R8           | 42   | 137                                      | 56             | 261            | 38                     | 32                    |
| Audi R8 II        | 4S   | 138                                      | 53             | 248            | 40                     | 30                    |
| Audi R8 e-tron    | 42 B | 102                                      | 53             | 266            | 40                     | 30                    |
| Audi Q2           | GA   | 176                                      | 46             | 155            | 53                     | 16                    |
| Audi Q3           | 8U   | 176                                      | 45             | 178            | 53                     | 16                    |
| Audi Q5           | 8R   | 164                                      | 44             | 221            | 50                     | 20                    |
| Audi Q5 II        | FY   | 175                                      | 44             | 219            | 52                     | 19                    |
| Audi Q7           | 4L   | 200                                      | 34             | 206            | 48                     | 20                    |
| Audi Q7           | 4M   | 163                                      | 38             | 181            | 52                     | 19                    |

The specifications apply for all model and engine versions of the individual vehicle types.



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