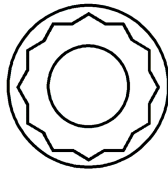
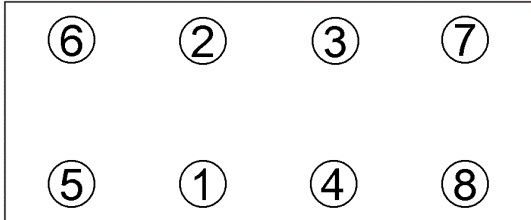


|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                             |                                                                                                       |                                                                                                   |                                                 |                                       |                                               |                         |                         |                                                                  |                 |                     |                  |                      |   |                                             |                              |                                |                                       |   |          |                 |                    |                  |   |            |              |                  |                |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------|---------------------------------------|-----------------------------------------------|-------------------------|-------------------------|------------------------------------------------------------------|-----------------|---------------------|------------------|----------------------|---|---------------------------------------------|------------------------------|--------------------------------|---------------------------------------|---|----------|-----------------|--------------------|------------------|---|------------|--------------|------------------|----------------|
| <b>Anziehvorschrift für Zylinderkopf</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             | <b>933.590</b><br>passend für / suitable for<br>adaptable à / adaptable a<br><br><b>Hyundai / Kia</b> | <br>Das Original |                                                 |                                       |                                               |                         |                         |                                                                  |                 |                     |                  |                      |   |                                             |                              |                                |                                       |   |          |                 |                    |                  |   |            |              |                  |                |
| <b>Tightening Instructions for Cylinder Head</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |                                                                                                       |                                                                                                   |                                                 |                                       |                                               |                         |                         |                                                                  |                 |                     |                  |                      |   |                                             |                              |                                |                                       |   |          |                 |                    |                  |   |            |              |                  |                |
| <b>Instructions de serrage pour culasse</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                                                                                       |                                                                                                   |                                                 |                                       |                                               |                         |                         |                                                                  |                 |                     |                  |                      |   |                                             |                              |                                |                                       |   |          |                 |                    |                  |   |            |              |                  |                |
| <b>Prescripciones de apriete para culatas</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                             |                                                                                                       |                                                                                                   |                                                 |                                       |                                               |                         |                         |                                                                  |                 |                     |                  |                      |   |                                             |                              |                                |                                       |   |          |                 |                    |                  |   |            |              |                  |                |
| Schraubenkopf / Head shape<br>Tête de vis / Cabeza de tornillo                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             | Anziehreihenfolge/Tightening sequence/Ordre de serrage/Orden de apriete                               |                                                                                                   |                                                 |                                       |                                               |                         |                         |                                                                  |                 |                     |                  |                      |   |                                             |                              |                                |                                       |   |          |                 |                    |                  |   |            |              |                  |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                             |                      |                                                                                                   |                                                 |                                       |                                               |                         |                         |                                                                  |                 |                     |                  |                      |   |                                             |                              |                                |                                       |   |          |                 |                    |                  |   |            |              |                  |                |
| <table><tr><td>Anziehen/<br/>Tightening/<br/>Serrage/<br/>Apriete</td><td>*</td><td>--&gt; MY 2014<br/>49±2 Nm<br/>➤ 90±2°<br/>➤ 120±2°</td></tr><tr><td></td><td>*</td><td>MY 2014 --&gt;<br/>49±2 Nm<br/>➤ 90±2°<br/>➤ length 147,5 mm:<br/>90±2°</td></tr></table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                             |                                                                                                       |                                                                                                   | Anziehen/<br>Tightening/<br>Serrage/<br>Apriete | *                                     | --> MY 2014<br>49±2 Nm<br>➤ 90±2°<br>➤ 120±2° |                         | *                       | MY 2014 --><br>49±2 Nm<br>➤ 90±2°<br>➤ length 147,5 mm:<br>90±2° |                 |                     |                  |                      |   |                                             |                              |                                |                                       |   |          |                 |                    |                  |   |            |              |                  |                |
| Anziehen/<br>Tightening/<br>Serrage/<br>Apriete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | *                                           | --> MY 2014<br>49±2 Nm<br>➤ 90±2°<br>➤ 120±2°                                                         |                                                                                                   |                                                 |                                       |                                               |                         |                         |                                                                  |                 |                     |                  |                      |   |                                             |                              |                                |                                       |   |          |                 |                    |                  |   |            |              |                  |                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | *                                           | MY 2014 --><br>49±2 Nm<br>➤ 90±2°<br>➤ length 147,5 mm:<br>90±2°                                      |                                                                                                   |                                                 |                                       |                                               |                         |                         |                                                                  |                 |                     |                  |                      |   |                                             |                              |                                |                                       |   |          |                 |                    |                  |   |            |              |                  |                |
| Zeichenerklärung / Explanations / Explication / Explicacion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                             |                                                                                                       |                                                                                                   |                                                 |                                       |                                               |                         |                         |                                                                  |                 |                     |                  |                      |   |                                             |                              |                                |                                       |   |          |                 |                    |                  |   |            |              |                  |                |
| <table><tr><td>✱</td><td>neue Zylinderkopf-schrauben verwenden</td><td>use new cylinder head bolts</td><td>utiliser des vis neuves</td><td>emplar tornillos nuevos</td></tr><tr><td>★</td><td>Warmlauf (80°C)</td><td>warm up time (80°C)</td><td>chauffage (80°C)</td><td>calentamiento (80°C)</td></tr><tr><td>☐</td><td>Schrauben einzeln lösen und wieder anziehen</td><td>loosen and tighten each bolt</td><td>deserrer et serrer vis par vis</td><td>aflojar y apretar tornillo a tornillo</td></tr><tr><td>●</td><td>Setzzeit</td><td>relaxation time</td><td>durée de tassement</td><td>tiempo de espera</td></tr><tr><td>➤</td><td>Drehwinkel</td><td>torque angle</td><td>angle de serrage</td><td>ángulo de giro</td></tr></table> |                                             |                                                                                                       |                                                                                                   | ✱                                               | neue Zylinderkopf-schrauben verwenden | use new cylinder head bolts                   | utiliser des vis neuves | emplar tornillos nuevos | ★                                                                | Warmlauf (80°C) | warm up time (80°C) | chauffage (80°C) | calentamiento (80°C) | ☐ | Schrauben einzeln lösen und wieder anziehen | loosen and tighten each bolt | deserrer et serrer vis par vis | aflojar y apretar tornillo a tornillo | ● | Setzzeit | relaxation time | durée de tassement | tiempo de espera | ➤ | Drehwinkel | torque angle | angle de serrage | ángulo de giro |
| ✱                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | neue Zylinderkopf-schrauben verwenden       | use new cylinder head bolts                                                                           | utiliser des vis neuves                                                                           | emplar tornillos nuevos                         |                                       |                                               |                         |                         |                                                                  |                 |                     |                  |                      |   |                                             |                              |                                |                                       |   |          |                 |                    |                  |   |            |              |                  |                |
| ★                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Warmlauf (80°C)                             | warm up time (80°C)                                                                                   | chauffage (80°C)                                                                                  | calentamiento (80°C)                            |                                       |                                               |                         |                         |                                                                  |                 |                     |                  |                      |   |                                             |                              |                                |                                       |   |          |                 |                    |                  |   |            |              |                  |                |
| ☐                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Schrauben einzeln lösen und wieder anziehen | loosen and tighten each bolt                                                                          | deserrer et serrer vis par vis                                                                    | aflojar y apretar tornillo a tornillo           |                                       |                                               |                         |                         |                                                                  |                 |                     |                  |                      |   |                                             |                              |                                |                                       |   |          |                 |                    |                  |   |            |              |                  |                |
| ●                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Setzzeit                                    | relaxation time                                                                                       | durée de tassement                                                                                | tiempo de espera                                |                                       |                                               |                         |                         |                                                                  |                 |                     |                  |                      |   |                                             |                              |                                |                                       |   |          |                 |                    |                  |   |            |              |                  |                |
| ➤                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Drehwinkel                                  | torque angle                                                                                          | angle de serrage                                                                                  | ángulo de giro                                  |                                       |                                               |                         |                         |                                                                  |                 |                     |                  |                      |   |                                             |                              |                                |                                       |   |          |                 |                    |                  |   |            |              |                  |                |
| <b>Motortyp / Engine type / Type de moteur / Tipo de motor</b><br><br>Ø: 77,0 mm / ⚙: 1,10 mm / Grade: B / Notch-Qty: 1<br><br>1.1L CRDi "U"<br>Mot.: D3FA<br><br>Hyundai i10 / i20<br>Kia Picanto / Rio                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |                                                                                                       |                                                                                                   |                                                 |                                       |                                               |                         |                         |                                                                  |                 |                     |                  |                      |   |                                             |                              |                                |                                       |   |          |                 |                    |                  |   |            |              |                  |                |
| ElringKlinger AG, Max-Eyth-Str.2<br>72581 Dettingen / Erms. Tel. 07123/724 601                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                             | <b>*933.590*</b>                                                                                      |                                                                                                   |                                                 |                                       |                                               |                         |                         |                                                                  |                 |                     |                  |                      |   |                                             |                              |                                |                                       |   |          |                 |                    |                  |   |            |              |                  |                |