



**Techni**  
ENGINEERING SOLUTIONS

**MERCEDES VITO (W447) 2.1L EURO 6  
OM 651 DE22LA**

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**CODE / CODICE: 0500.7902**

**COMPRESSOR / COMPRESSEUR / KOMPRESSOR  
/ COMPRESSORE / COMPRESOR :**

**SELTEC : TM13 / 15 / 16**

**QUE : QP13 / 15 / 16**

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**FITTING INSTRUCTIONS**

**EINBAUANLEITUNGEN**

**INSTRUCTIONS POUR LE MONTAGE**

**ISTRUZIONI DI MONTAGGIO**

**INSTRUCCIONES DE MONTAJE**

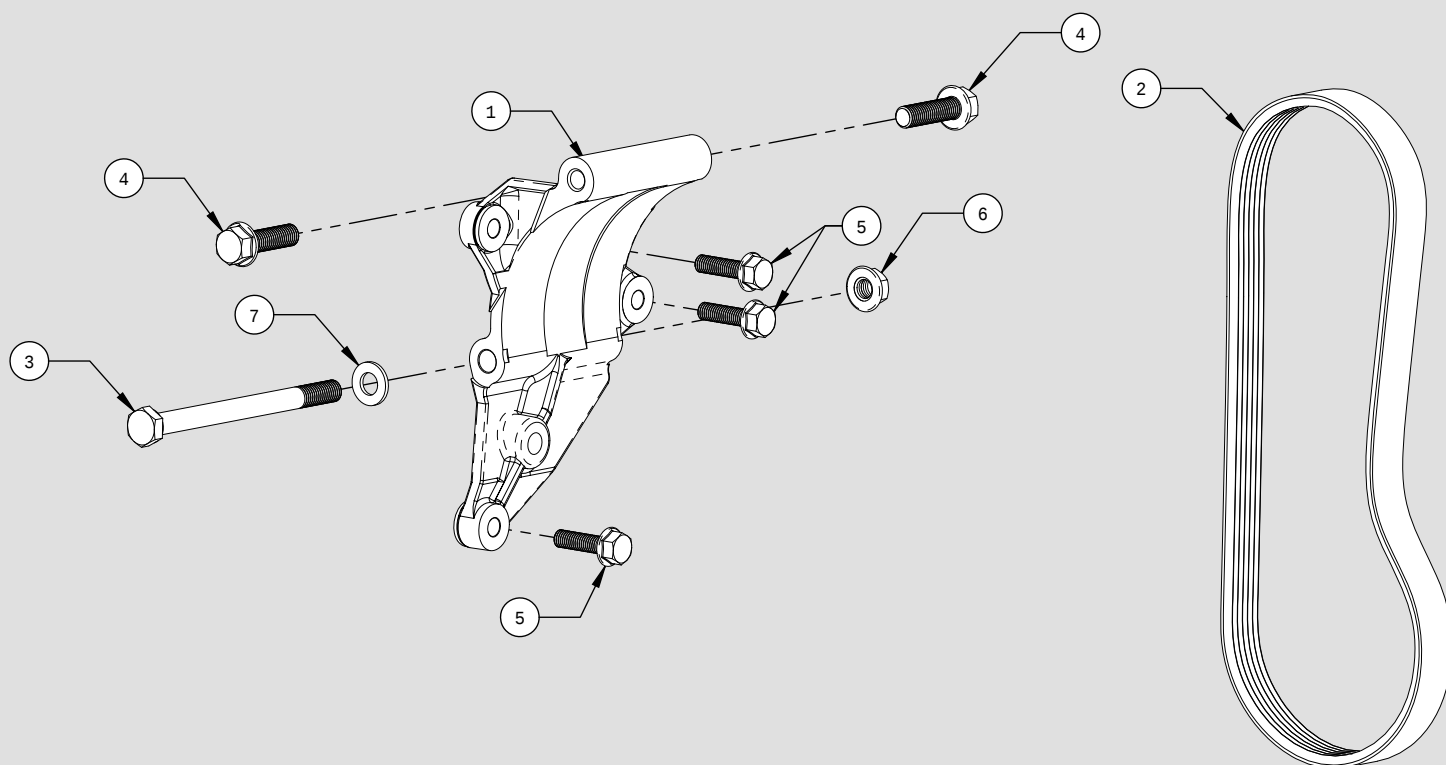
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**PARTS VIEW / VUE ÉCLATÉE / TEILEANSICHT / VISTA PARTA / IMÁGENES DE LAS PIEZAS**



**PARTS LIST / NOMENCLATURE / TEILELISTE / ELENCO DELLE PARTI / LISTA DE PIEZAS**

| ITEM | CODE / CODICE /<br>KODE / CODIGO | DESCRIPTION / DESCRIZIONE / BESCHREIBUNG / DESCRIPCION | QTY. | COMMENTS |
|------|----------------------------------|--------------------------------------------------------|------|----------|
| 1    | 0440.2783                        | Compressor mount bracket                               | 1    |          |
| 2    | 0820.7501                        | Belt - Poly Groove 6PK 2100                            | 1    |          |
| 3    | 2705.0531                        | Hexagon Head Bolt - M10 x 130 : 10.9                   | 1    |          |
| 4    | 2705.0241                        | Hex Flange Bolt Durluk M10 x 35 : 1.50 - 12.9          | 2    |          |
| 5    | 2704.0091                        | Hex Flange Bolt Durluk - M8 x 30 : 1.25 - 12.9         | 3    |          |
| 6    | 2735.0071                        | Durluk Hexagon Flange Nut - M10 : 1.50                 | 1    |          |
| 7    | 2809.0011                        | Washer M10 Flat DIN - A 10.5                           | 1    |          |

COMPATIBLE COMPRESSORS / COMPRESSEURS RECOMMANDÉS / EMPFOHLENE KOMPRESSOREN  
RACCOMANDATO COMPRESSORI / RECOMENDADAS COMPRESORES

| SELTEC      | TM-13 HS  | TM-15 HS   | TM-16 HS   |
|-------------|-----------|------------|------------|
| Comp No     | 0381.0202 | 0381.0132  | 0381.1042  |
| Valeo No.   | 435-45120 | 435-55121  | 435-56121  |
| Mounting    | Ear       | Ear        | Ear        |
| Rotor       | 8PV       | 8PV        | 8PV        |
| GL          | 46.55mm   | 46.55mm    | 46.55mm    |
| Armature    | 3E        | 3E         | 3E         |
| Diameter    | 123       | 123        | 123        |
| Voltage     | 12        | 12         | 12         |
| Orientation | V         | V          | V          |
| Fitting     | 3/4 x 7/8 | 3/4 x 7/8  | 3/4 x 7/8  |
| Manifold    | Bolt      | Monolithic | Monolithic |

| QUE         | QP-13 HS  | QP-15 HS   | QP-16 HS   |
|-------------|-----------|------------|------------|
| Comp No     | 0391.0202 | 0391.0132  | 0391.1042  |
| Que No.     | QP13-1302 | QP15-1172  | QP16-1196  |
| Mounting    | Ear       | Ear        | Ear        |
| Rotor       | 8PV       | 8PV        | 8PV        |
| GL          | 46.55mm   | 46.55mm    | 46.55mm    |
| Armature    | 3E        | 3E         | 3E         |
| Diameter    | 123       | 123        | 123        |
| Voltage     | 12        | 12         | 12         |
| Orientation | V         | V          | V          |
| Fitting     | 3/4 x 7/8 | 3/4 x 7/8  | 3/4 x 7/8  |
| Manifold    | Bolt      | Monolithic | Monolithic |

| SANDEN      | - | - | - |
|-------------|---|---|---|
| Comp No     | - | - | - |
| Sanden No.  | - | - | - |
| Mounting    | - | - | - |
| Rotor       | - | - | - |
| GL          | - | - | - |
| Armature    | - | - | - |
| Diameter    | - | - | - |
| Voltage     | - | - | - |
| Orientation | - | - | - |
| Fitting     | - | - | - |

| NOTES |
|-------|
|       |

STANDARD FASTENER TORQUE VALUES

In the absence of specific torque values detailed in this fitting instruction manual, the following chart can be used as a guide to the maximum safe torque for specific size and grade of fastener.

COUPLES DE SERRAGE DES FIXATIONS STANDARDS

Si des chiffres de serrage au couple particuliers ne sont pas indiqués dans cette notice de montage, se référer au tableau suivant qui servira de guide pour le couple de sécurité maximum correspondant à une taille et un grade spécifiques de fixation.

ANZIEHMOMENTE FÜR STANDARDBEFESTIGUNGSMITTEL

Falls in dieser Einbauanleitung keine speziellen Anziehmomente angegeben sind, kann die folgende Tabelle als Richtlinie für das maximale sichere Anziehmoment für eine spezifische Größe oder Qualität von Befestigungsmitteln dienen.

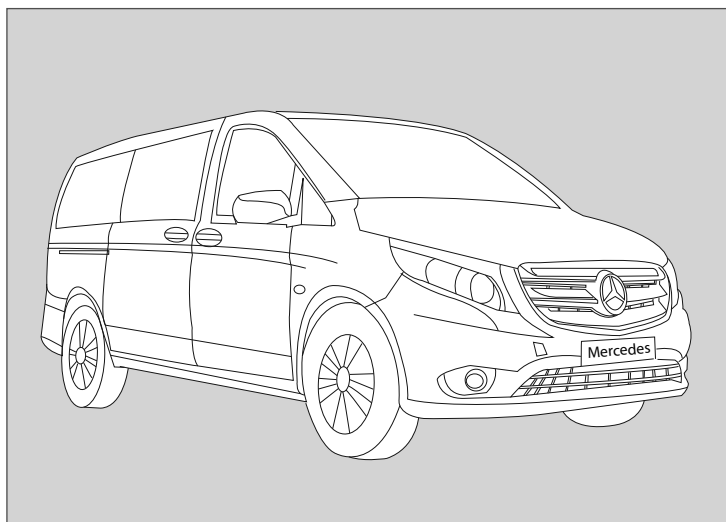
VALORI STANDARD DI SERRAGGIO PER DISPOSITIVI DI FISSAGGIO

In assenza di valori specifici di coppia nel presente manuale di istruzioni, si può utilizzare la seguente tabella come guida per conoscere la coppia massima sicura in base a dimensioni e grado del dispositivo di fissaggio.

VALORES ESTÁNDAR DE LOS PARES DE APIRIETE Y FIJACIÓN

En ausencia de valores para los pares de apriete específicos detallados en este manual de instrucciones de montaje, se puede utilizar la siguiente tabla como guía para consultar el máximo par de torsión seguro para un tamaño concreto y su grado de fijación.

| STRENGTH    |  |     |  |     |  |     |  |     |
|-------------|-------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------|-----|
|             | Max Torque                                                                          |     | Max Torque                                                                          |     | Max Torque                                                                            |     | Max Torque                                                                            |     |
| Dia / Pitch | lb.ft                                                                               | Nm  | lb.ft                                                                               | Nm  | lb.ft                                                                                 | Nm  | lb.ft                                                                                 | Nm  |
| M5 x 0.80   | 2                                                                                   | 3   | 4.5                                                                                 | 6   | 6.5                                                                                   | 9   | 7.5                                                                                   | 10  |
| M6 x 1.00   | 4                                                                                   | 5.5 | 7.5                                                                                 | 10  | 11                                                                                    | 15  | 13                                                                                    | 18  |
| M8 x 1.25   | 10                                                                                  | 13  | 18                                                                                  | 25  | 26                                                                                    | 35  | 33                                                                                    | 45  |
| M10 x 1.25  | 20                                                                                  | 27  | 39                                                                                  | 53  | 57                                                                                    | 78  | 66                                                                                    | 90  |
| M10 x 1.50  | 18                                                                                  | 25  | 37                                                                                  | 50  | 55                                                                                    | 73  | 63                                                                                    | 86  |
| M12 x 1.75  | 33                                                                                  | 45  | 63                                                                                  | 85  | 97                                                                                    | 130 | 111                                                                                   | 150 |
| M14 x 2.00  | 55                                                                                  | 75  | 103                                                                                 | 140 | 151                                                                                   | 205 | 177                                                                                   | 240 |
| M16 x 2.00  | 85                                                                                  | 115 | 159                                                                                 | 215 | 232                                                                                   | 315 | 273                                                                                   | 370 |



## VEHICLE DETAILS

|                |                             |
|----------------|-----------------------------|
| Manufacturer   | Mercedes                    |
| Model          | Vito                        |
| Type           | 114 / 116 / 119 BlueTEC     |
| Engine Details | OM 651 DE22LA Euro 6 2143cc |
| Year           | 10.2014>                    |
| Chassis Nos.   | N/A                         |
| LHD            | YES                         |
| RHD            | YES                         |
| PAS            | YES                         |
| A/C            | NO                          |
| Voltage        | 12v                         |

## KIT DETAILS

|                                                                                                            |                                |
|------------------------------------------------------------------------------------------------------------|--------------------------------|
| Kit Part No.                                                                                               | 0500.7902                      |
| Description                                                                                                | Standard Kit                   |
| Compressor RPM                                                                                             | 4726 @ Max Engine Power Output |
| Fitting Time                                                                                               | 45 Minutes                     |
| Suction Fitting                                                                                            | 90°                            |
| Discharge Fitting                                                                                          | 90°                            |
| Main Drive Belt                                                                                            | 6PK 2100                       |
| Belt Part No.                                                                                              | 0820.7501                      |
| Note: ECO-Start. It is recommended that MB Option PSM is utilised. This allows the ECO-Start deactivation. |                                |

## FOREWORD

The purpose of this manual is to facilitate the installation of a direct drive compressor. The information given is merely instructive, should any complications arise contact the Technical department. The manufacturer's warranty does not cover any problems caused by defective installation or alterations made unless authorised. The manufacturer shall not be responsible for any injury, damage or loss caused directly or indirectly as a result of using this manual or the information contained within it.

### 1 SAFETY MEASURES:

**Before fitting the Compressor adapter drive kit, ensure the following for damage:**

- a Inner and outer trim and body work
- b Engine idle pace
- c Check all the vehicle functions

**Check list:**

- a Ensure that the right kit has been selected
- b Before installing, check that all the correct pieces are present; also ensure that there are no missing or broken pieces
- c When fitting, make sure the vehicle is properly protected against damage.

### Installation apparatus

- a Calibrated torque wrench
- b Hand service tools
- c Protective covers and shields

### 2 PRECAUTIONS

- a Detach the battery negative lead.
- b Torque all bolts where stated using a calibrated torque wrench.
- c Take extreme care with moving parts.
- d Remove the vehicle's ignition key and keep it with you.
- e Wear safeguards and make sure that liquid refrigerant never touches your skin

**Caution:** Measures must be followed accurately to steer clear of the possibility of damage to individuals

**Warning:** This calls awareness to actions which must be pursued to avoid damage to the components.

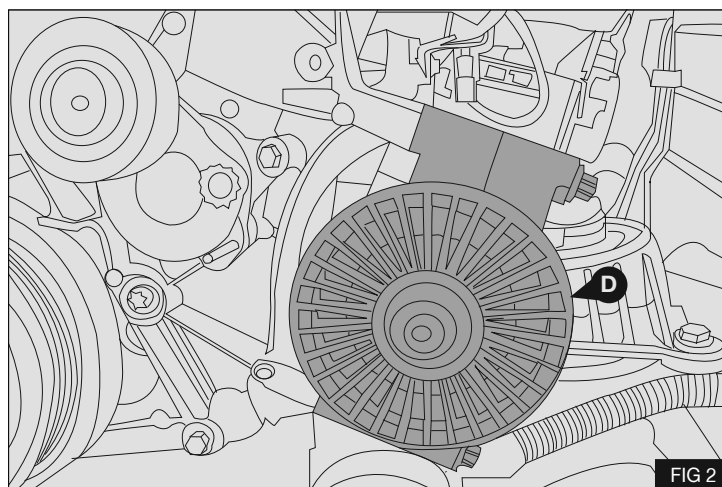
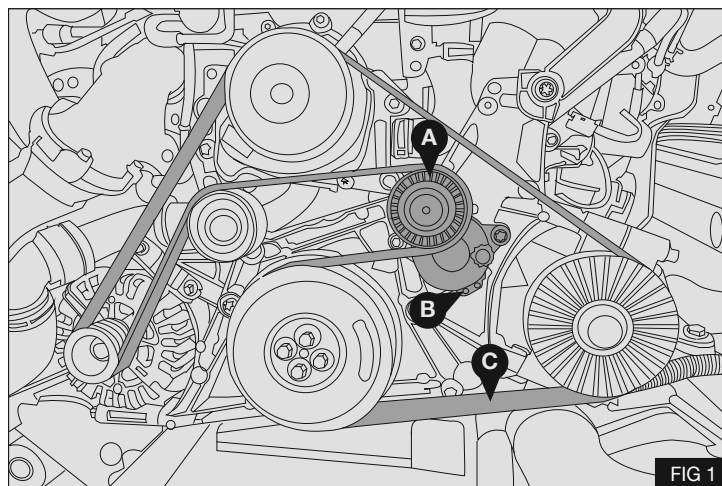
**NB:** This calls awareness to make the job easier or gives useful information.

## PRE INSTALLATION

**N.B** Before proceeding please read the installation precautions. The letters on drawings relate to text, numbers circled relate to the parts list in this manual.

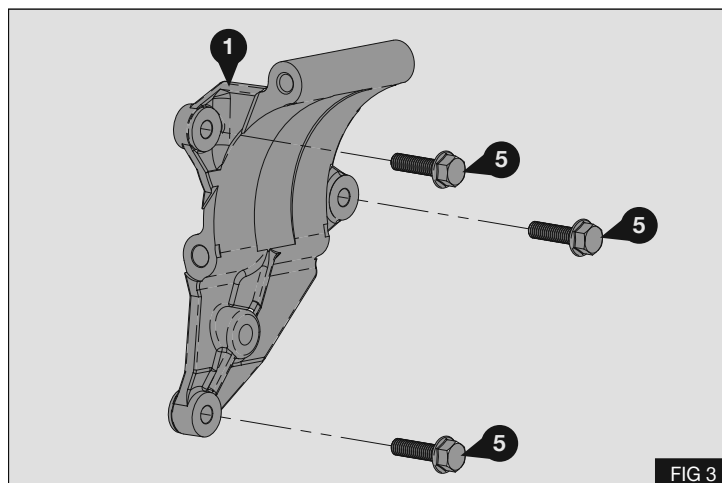
## INSTALLATION

1. Turn the automatic belt tensioner **A** anticlockwise and insert a 4mm locking pin in position **B** – Fig 1
2. Remove and discard the drive belt **C** – Fig 1
3. Remove and discard the original foolish pulley assembly **D** and 3x securing bolts – Fig 2



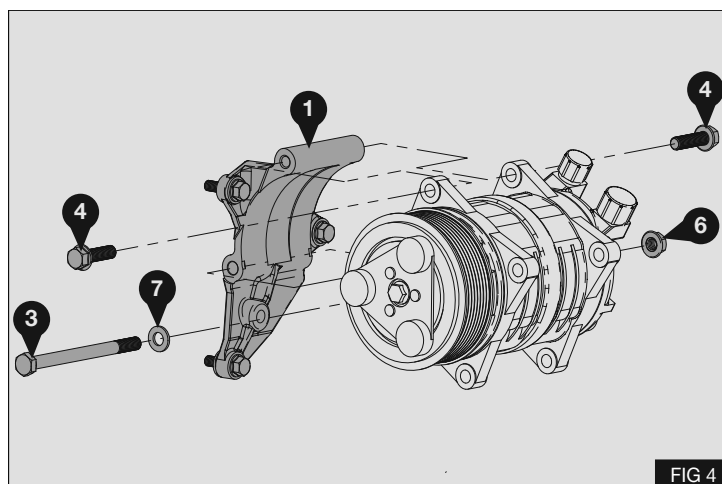
## MOUNT BRACKET INSTALLATION

1. Install the supplied mount bracket **1** at the position where the foolish pulley was removed. Secure using 3x M8 bolts **5** – Fig 3
2. Torque 3x M8x30 bolts **5** to 29 Nm / 22 lb-ft



## COMPRESSOR INSTALLATION

1. Secure the compressor to the mount bracket **1** using 2x bolts **4** at the top and bolt **3** with washer **7** and nut **6** at the bottom – Fig 4
2. Torque 2x M10x35 bolts **4** to 58 Nm / 43 lb-ft
3. Torque 1x M10x130 bolt **3** to 58 Nm / 43 lb-ft



## DRIVE BELT INSTALLATION

1. Fit the supplied drive belt ② as shown opposite – Fig 5

**A** Crank pulley  
**B** Tensioner  
**C** Idle pulley  
**D** Alternator  
**E** Water pump  
**F** Compressor

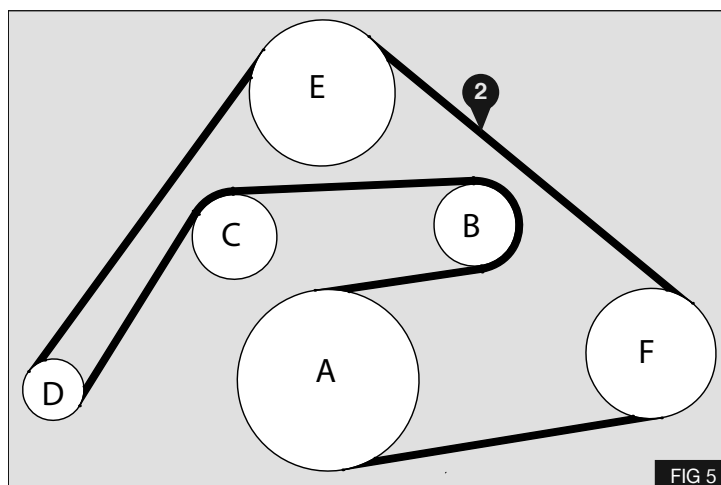


FIG 5

2. Place the belt in the correct groove of the compressor:

- A. Valeo / QUE / Sanden<sup>(1)</sup> compressors – Belt is installed in the grooves at the front of the compressor pulley - Fig 6

<sup>(1)</sup>Model Specific

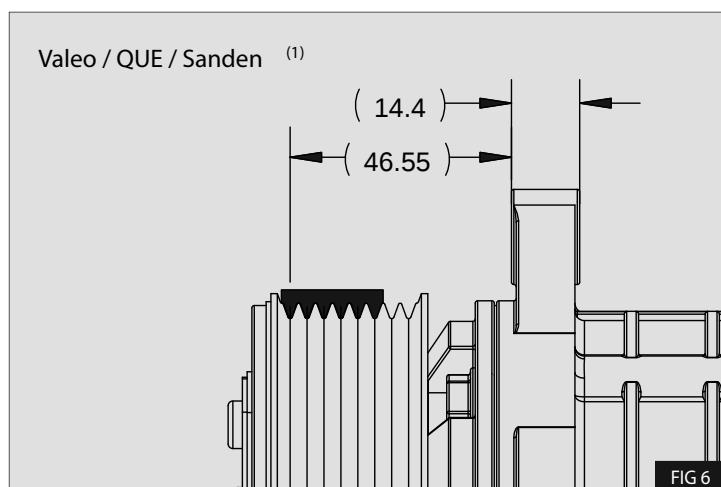


FIG 6

- B. Delphi / Sanden<sup>(1)</sup> compressors - Belt is installed with 1 spare groove at the front of the compressor pulley - Fig 7

<sup>(1)</sup>Model Specific

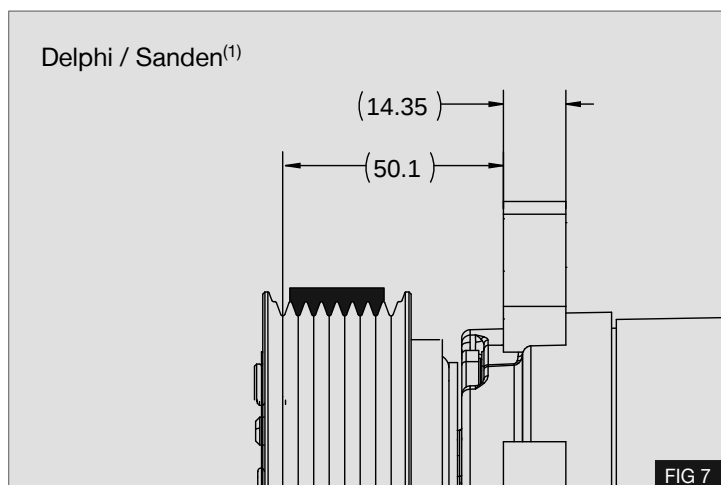


FIG 7

## FINISH

1. Run the engine with the compressor clutch engaged for five minutes, Check all components.
2. Install the supplied belt label in the engine bay





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Sundorne Trade Park, Henley Way,  
Shrewsbury, United Kingdom, SY1 4NS  
Telephone (+44) (0) 1743 443176  
Fax (+44) (0) 1743 443113  
Email: [sales@techni.co.uk](mailto:sales@techni.co.uk)