



Techni
ENGINEERING SOLUTIONS

MERCEDES SPRINTER
3.0L EURO 5 / 6 / EEV
2500 / 3500 / 219 / 319 / 419 / 519

CODE / CODICE: 0500.8082

**COMPRESSOR / COMPRESSEUR / KOMPRES-
SOR / COMPRESSORE / COMPRESOR :**

SELTEC: TM13 / 15 / 16

QUE: QP13 / 15 / 16

FITTING INSTRUCTIONS

EINBAUANLEITUNGEN

INSTRUCTIONS POUR LE MONTAGE

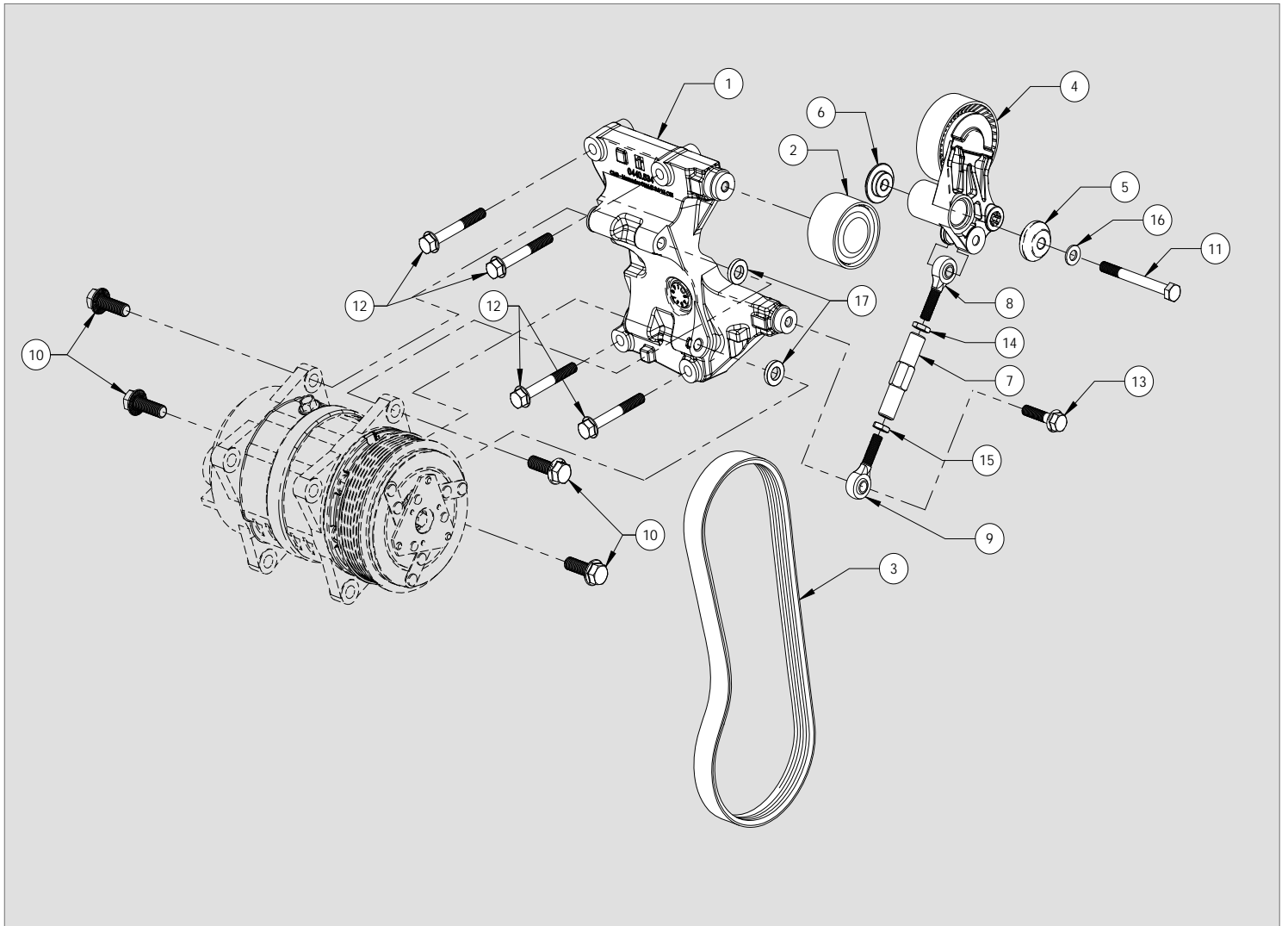
ISTRUZIONI DI MONTAGGIO

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 / KODE / CODIGO	DESCRIPTION / DESCRIZIONE / BESCHREIBUNG / DESCRIPCION	QTY.	COMMENTS
1	0441.5342	Mount Bracket Assembly	1	-
2	1700.5161	Idle Pulley 54mm	1	-
3	0820.7271	Belt - Poly Groove 6PK 1438	1	-
4	1705.5042	Eccentric Tensioner	1	-
5	2803.5453	Spacer - 32OD x 8.5ID x 10L	1	-
6	2803.5443	Spacer - 32OD x 8.5ID x 2L	1	-
7	2780.0023	M8 Adjuster Bar	1	-
8	2780.0001	8mm rod end with LH thread	1	-
9	2780.0011	8mm rod end with RH thread	1	-
10	2705.0491	Hex flange bolt Durlok - M10 x 30 : 1.50 - 12.9	4	-
11	2704.5491	Hex bolt - M8 x 80 : 1.25 - 10.9	1	-
12	2704.1011	Hex flange bolt - M8 x 60 : 1.25 - 10.9	4	-
13	2704.1021	Hex flange bolt - M8 x 35 : 1.25 - 10.9	1	-
14	2734.5031	M8 Half Nut - LH Thread	1	-
15	2734.5021	M8 Half Nut - RH Thread	1	-
16	2808.0011	Washer M8 Flat DIN 125 - A 8.4	1	-
17	2803.6211	Spacer - 20.0 OD x 10.5 ID x 3.56 L	2	-

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

SELTEC	TM-13 HS	TM15-HS	TM16-HS
Comp No	0381.0962	0381.5012	0381.5212
Valeo No.	435-54338	435-55019	435-56019
Mounting	Ear	Ear	Ear
Rotor	6PV	6PV	6PV
GL	42.99mm	42.99mm	42.99mm
Armature	SL	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	Bolt	Bolt

QUE	QP13-HD	QP15-HD	QP16-HD
Comp No	0391.0962	0391.5012	0391.5212
Que No.	-	QP15-1171	QP16-1184
Mounting	Ear	Ear	Ear
Rotor	6PV	6PV	6PV
GL	42.99mm	42.99mm	42.99mm
Armature	SL	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	Bolt	Bolt

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

DELPHI	-	SP15	-
Comp No	-	-	-
Sanden No.	-	-	-
Mounting	-	-	-
Rotor	-	-	-
GL	-	-	-
Armature	-	-	-
Diameter	-	-	-
Voltage	-	-	-
Orientation	-	-	-
Fitting	-	-	-

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.

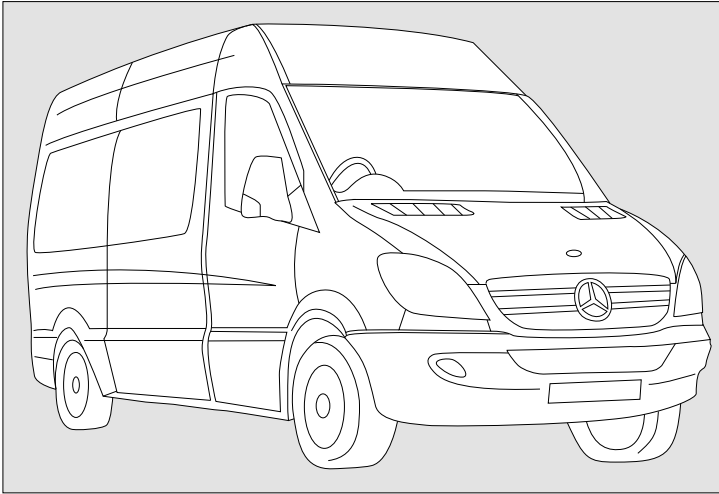
VALORI STANDARD DI SERRAGGIO PER DISPOSITIVI DI FISSAGGIO

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 APRIETE 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
Make	Sprinter
Model	2500 / 3500 / 219 / 319 / 419 / 519
Engine CC	2987 cc
Engine Details	OM 642 V6 Cdi Euro 5 / EEV / Euro 6
Year	08.2009>
Chassis Nos.	N/A
LHD	YES
RHD	YES
PAS	YES
A/C	YES / NO
Voltage	12v

KIT DETAILS

Kit Part Number	0500.8082
Description	Standard Kit
Compressor RPM	4695 @ Max engine power output
Fitting Time	40 Minutes
Suction Fitting	90°
Discharge Fitting	90°
Belt Type	6PK 1438
Belt Part Number	0820.7271
Note:	-N63/-LBS Option

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

Note: 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

Euro 5 / 6 Vehicles Only

1. Remove and retain bolt (A) securing the fan support tube - Fig 1
2. Disconnect the wiring plug (B) from the fan assembly - Fig 1

All Vehicles

3. Remove and discard the original stretch belt (C) - Fig 1

Note: It is not necessary to remove the viscous fan to install this mount kit.

MOUNT BRACKET INSTALLATION

1. Assemble the idle pulley (2) to the mount bracket (1) - Fig 2

Note: The idle pulley securing bolt is designed to fit into the pulley from one direction only. The metal bearing shield on the rear of the bearing should face the mount bracket (1)

Torque the idle pulley (2) to 25 Nm / 18 lb-ft using a calibrated torque wrench - Fig 2

2. Install the mount bracket (1) to the engine at fixing points (D) in the position below the alternator using the supplied M8x60 bolts (12) - Fig 3 / 4

Torque bolts (12) to 30 Nm / 22 lb-ft using a calibrated torque wrench - Fig 4

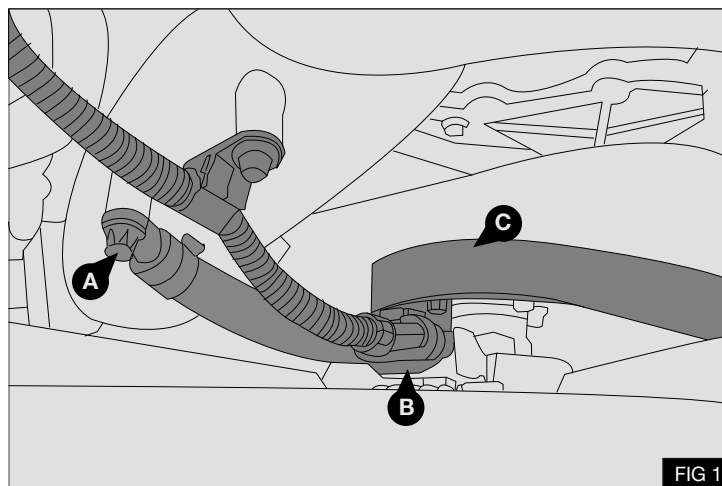


FIG 1

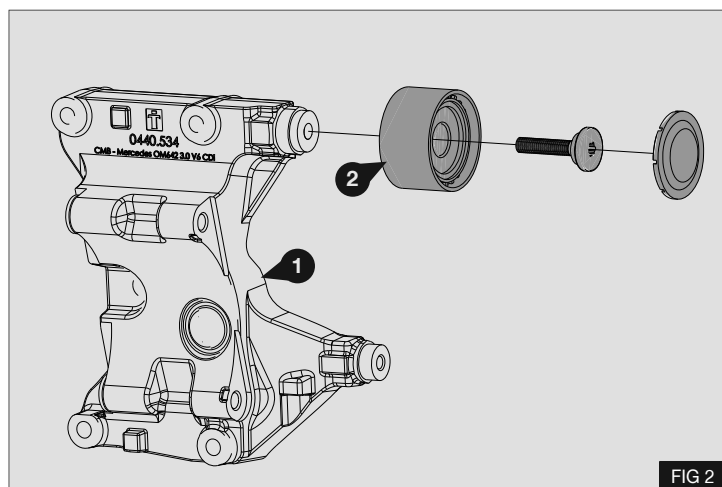


FIG 2



FIG 3

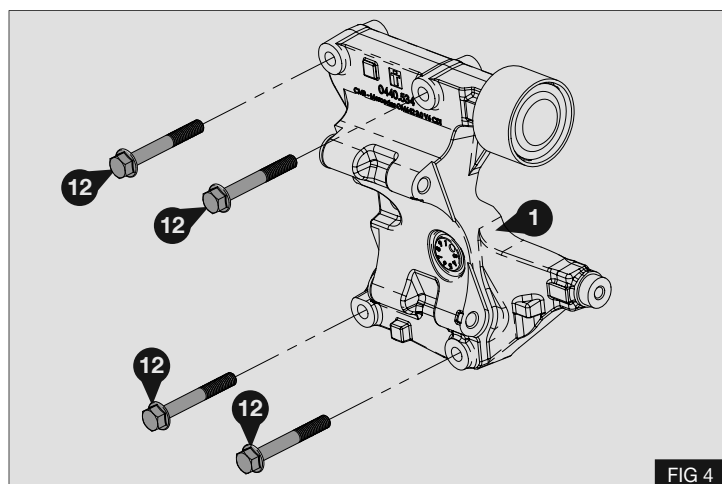
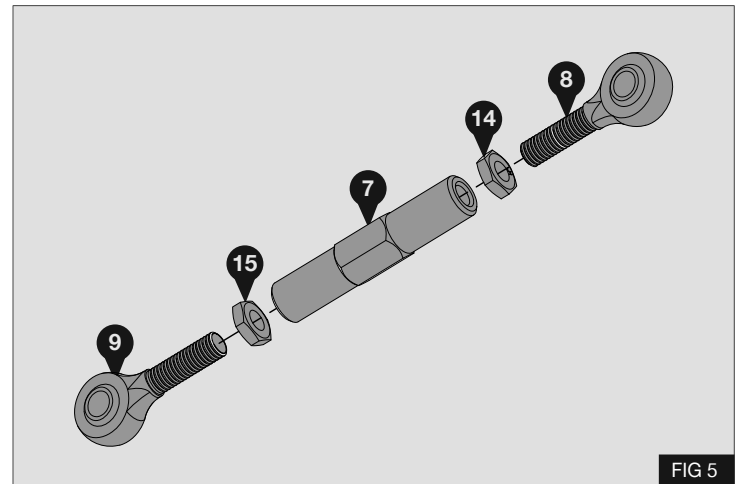


FIG 4

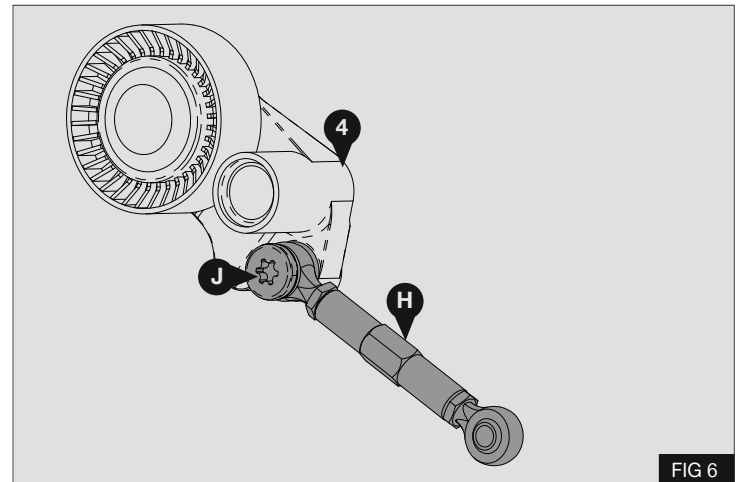
TENSIONER INSTALLATION

Note: Please refrain from using 'LOCTITE' unless otherwise notified.

1. Assemble the manual adjuster as shown opposite. Note that the assembly contains both left and right handed threaded components. Insert both rod ends (8) and (9) with nuts (14) and (15) fully into adjuster bar (7) - Fig 5
2. Secure the manual adjuster assembly (H) to the eccentric assembly (4) using bolt (J) from the eccentric adjuster (4) - Fig 6
3. Torque bolt (J) to 32 ± 3 Nm or 23 ± 2 lb ft using a calibrated torque wrench - Fig 6



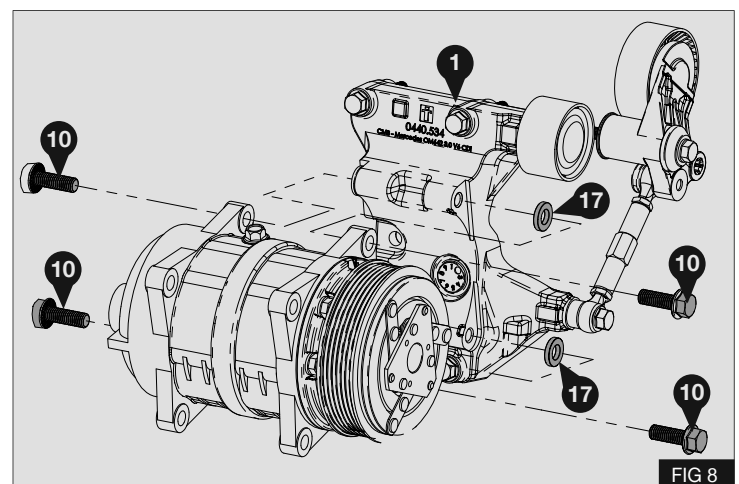
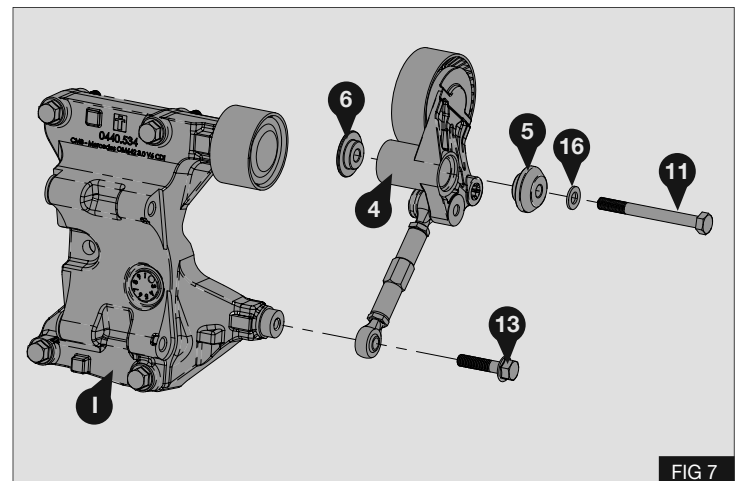
4. Insert spacers (5) and (6) into the eccentric tensioner (4) as shown opposite. Secure the assembly to the original location on the engine using bolt (11) with washer (16). Do not fully tighten bolt (11) at this stage - Fig 7
5. Secure the manual adjuster assembly to the mount bracket (1) using M8 x 35 bolt (13) - Fig 7
6. Torque bolt (13) to 30 Nm / 22 lb ft using a calibrated torque wrench - Fig 7



7. Install the compressor to the mount bracket (1) using the 4x supplied bolts (10) with spacers (17) between the front compressor ears and bracket (1) as shown opposite - Fig 8

Important: Follow the tighten procedure below for x4 bolts (10)

8. Torque the 2x front bolts (10) to 63 Nm / 46 lb-ft
9. Tighten the 2x rear bolts (10) until the sliding bushes in bracket (1) contact the rear compressor ears. Then torque the 2x rear bolts (10) to 63 Nm / 46 lb-ft



DRIVE BELT INSTALLATION

1. Feed the supplied drive belt (3) over the viscous fan and to the pulleys as shown opposite - Fig 9

- A Crankshaft Pulley
- B Tensioner Pulley
- C Compressor
- D Idle Pulley
- E Fan Pulley

Note: Fit Drive belt (3) over idle pulley (D) last

NB: This kit was designed to suit a Que/Seltec PV6 Compressor. However, if installing to a different clutch then place the belt in the correct groove as shown opposite

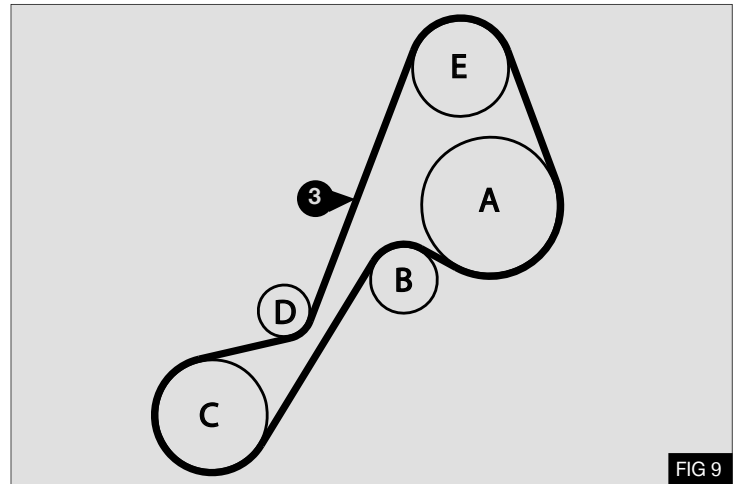


FIG 9

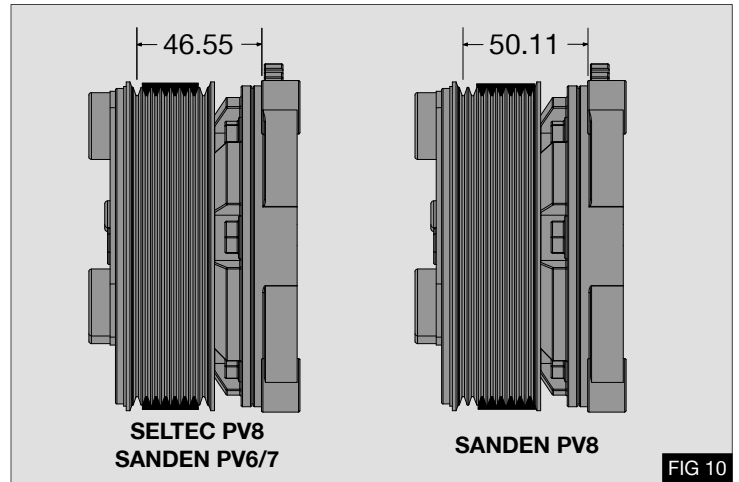


FIG 10

2. Tension the drive belt (see table opposite) by rotating the adjuster bar (7) - Fig 11
3. Lock the manual tensioner assembly using nuts (14) and (15) - Fig 8

Torque bolt (11) to 32 +/- 3 Nm or 23 +/- 2 lb ft using a calibrated torque wrench - Fig 11

Note: Check the belt tension when the belt is hot. IT IS IMPORTANT THAT THE BELT IS ALLOWED TO COOL BEFORE RE-TENSIONING. Always re-tension NEW belts if the tension is less than the USED BELT AMOUNT.

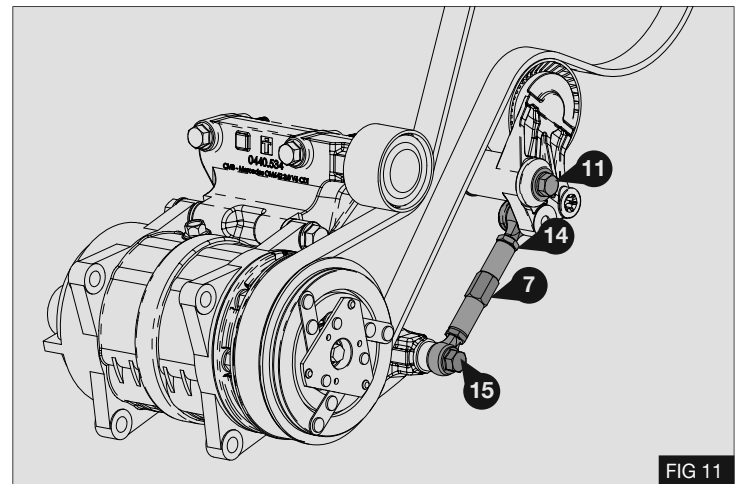


FIG 11

FINISH

Euro 5 / 6 vehicles only

1. Refit the bolt (A) securing the fan support tube. Reconnect the wiring plug (B) to the fan assembly - Fig 1

All Vehicles

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

BELT TENSION TABLE		
Belt	Belt Age	Belt Tension Using a Belt Tension Gauge
6 PK	New Belt	72 - 84 kg
6 PK	Used Belt / Re-Tension	54 - 60 kg

(EN)

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