



**Techni**  
ENGINEERING SOLUTIONS

## **MERCEDES BENZ**

### **SPRINTER**

**219 CDI / 319 CDI / 419 CDI / 519 CDI**

**EURO 5**

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**CODE / CODICE: 0500.6422**

**COMPRESSOR / COMPRESSEUR /  
KOMPRESSOR / COMPRESSORE / COMPRESOR :  
SELTEC: TM15  
QUE: QP15**

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**FITTING INSTRUCTIONS  
EINBAUANLEITUNGEN  
INSTRUCTIONS POUR LE MONTAGE  
ISTRUZIONI DI MONTAGGIO  
INSTRUCCIONES DE MONTAJE**

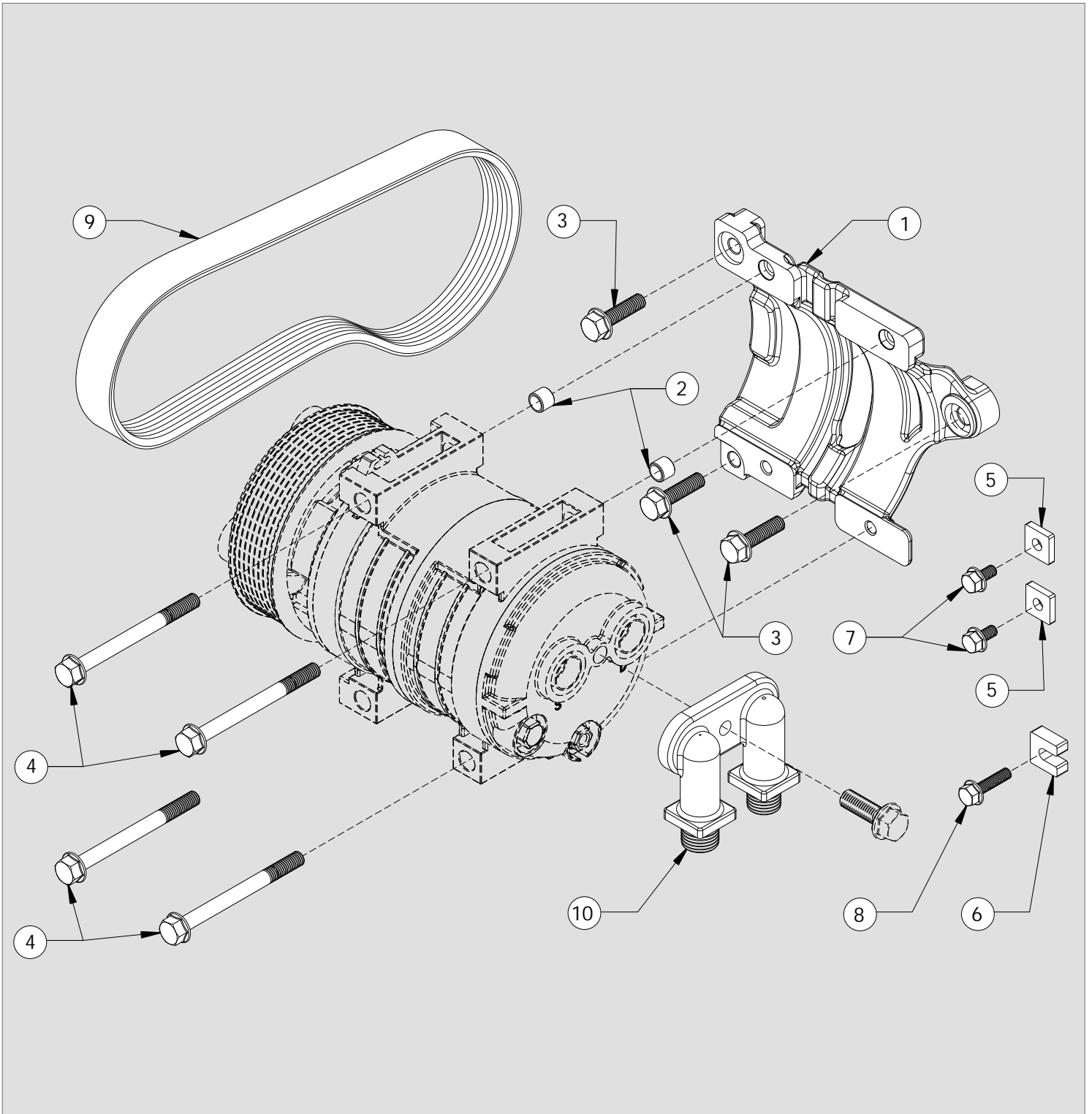
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PARTS VIEW / VUE ÉCLATÉE / TEILEANSICHT / VISTA PARTA / IMÁGENES DE LAS PIEZAS



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

ITEM	CODE / CODICE / KODE / CODIGO	DESCRIPTION / DESCRIZIONE / BESCHREIBUNG / DESCRIPCION	QTY.	COMMENTS
1	0440.5037	Compressor Mount Bracket	1	-
2	2800.5571	Dowel Bush - OD11.0 x ID8.5 x L9.0	2	-
3	2704.0091	Hex flange bolt Durlok - M8 x 30 : 1.25 - 12.9	3	-
4	2704.5381	Hex flange bolt - M8 x 90 : 1.25 - 10.9	4	-
5	2803.5463	Spacer - 4MM	2	-
6	2803.5472	Spacer - 8MM	1	-
7	2702.0141	Hex flange bolt Durlok - M6 x 12 : 1.00 - 12.9	2	-
8	2702.0111	Hex flange bolt Durlok - M6 x 25 : 1.00 - 12.9	1	-
9	0820.5611	Belt - Poly Groove 7PK 2080	1	-
10	0425.0251	Manifold Inverted - 3/4 x 7/8 Insert O-Ring	1	-

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

SELTEC	-	TM15-HS	-
Comp No	-	0380.5061	-
Valeo No.	-	10055082	-
Mounting	-	Direct	-
Rotor	-	8PV	-
GL	-	-	-
Armature	-	3E	-
Diameter	-	123	-
Voltage	-	12	-
Orientation	-	V	-
Fitting	-	3/4 x 7/8	-
Manifold	-	Bolt	-

QUE	-	QP15-HD	-
Comp No	-	0390.5061	-
Que No.	-	QP15-1280	-
Mounting	-	Direct	-
Rotor	-	8PV	-
GL	-	-	-
Armature	-	3E	-
Diameter	-	123	-
Voltage	-	12	-
Orientation	-	V	-
Fitting	-	3/4 x 7/8	-
Manifold	-	Bolt	-

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.

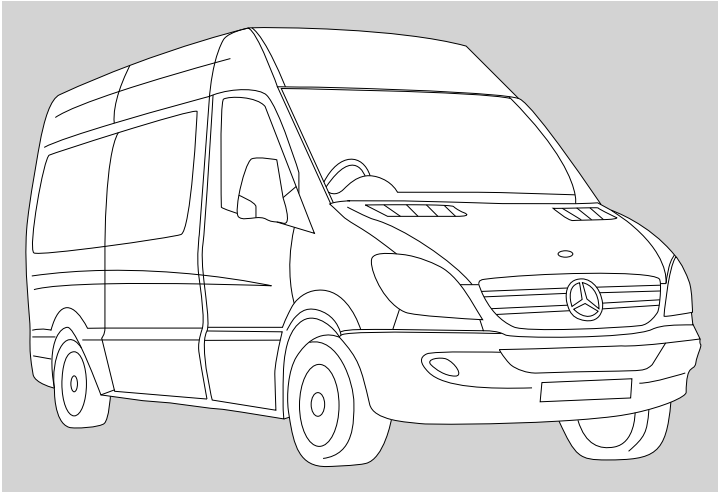
**VALORI STANDARD DI SERRAGGIO PER DISPOSITIVI DI FISSAGGIO**

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 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 Benz
Make	Sprinter
Model	219 CDI / 319 CDI / 419 CDI / 519 CDI
Engine CC	2987 CC
Engine Details	EURO 5 OM642 DE22LA 190 PS
Year	04.10 >
Chassis Nos.	N/A
LHD	YES
RHD	YES
PAS	YES
A/C	NO
Voltage	12v

## KIT DETAILS

Kit Part No.	0500.6422
Description	Standard Kit
Compressor RPM	4694 @ Max engine power output
Fitting Time	60 Minutes
Suction Fitting	90°
Discharge Fitting	90°
Belt Type	7PK 2080
Belt Part No.	0820.5611

## 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**

**NB** Prior to commencing work, please examine the instructions with care. The alphabetical symbols on the diagram relate to written instructions, numerical symbols relate to the parts listing.

**Dismantle the following:**

1. Remove and retain the 3 x M6 nuts securing the air box (A), remove the air box - Fig.1
2. Remove the wiring plug (B) from the fan assembly by first releasing the grey clip in the plug housing - Fig 2
3. Remove and retain the M6 - E10 Torx bolt securing the fan assembly retaining tube - Fig.2
4. Remove and retain the intercooler hose (D) by releasing the two securing clips at either end of the hose - Fig.3
5. Remove and discard the three M6 - E10 Torx bolts securing the intercooler pipe (G) - Fig.4
6. Remove and retain the screw (E) and clip (F) securing the top of the intercooler pipe (G) - Fig-4
7. Remove the intercooler pipe (G) - Fig.4

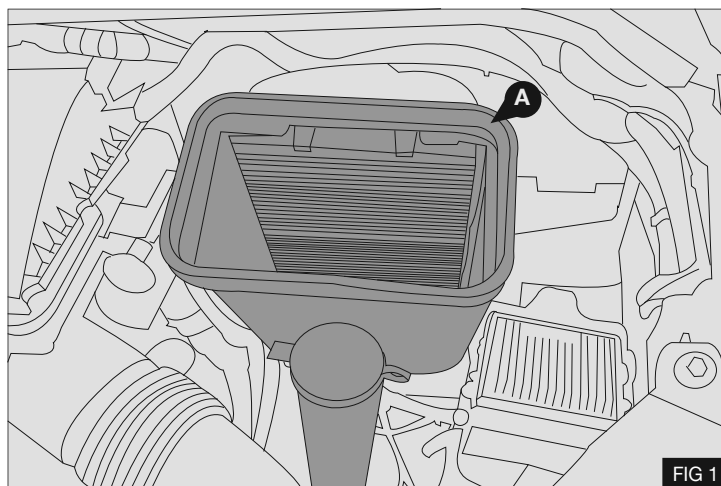


FIG 1

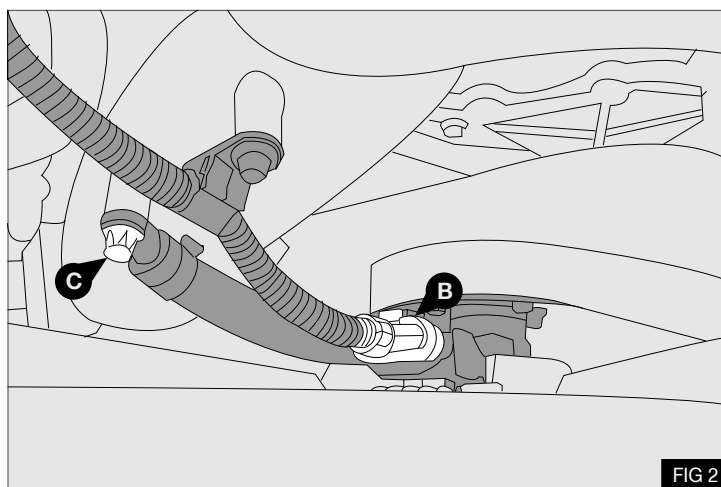


FIG 2

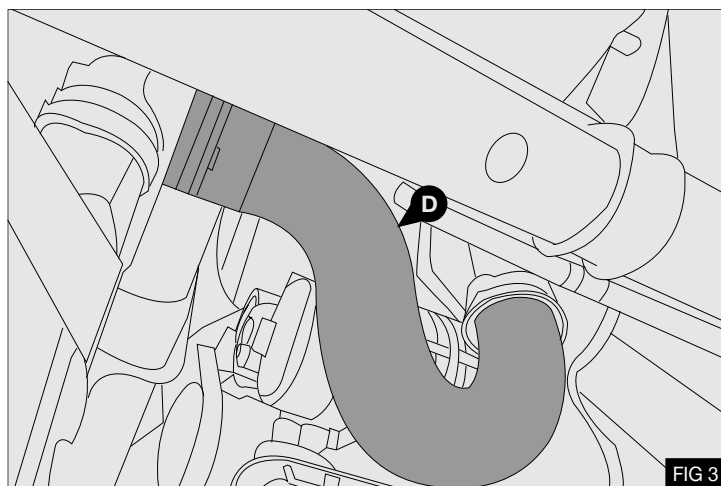


FIG 3

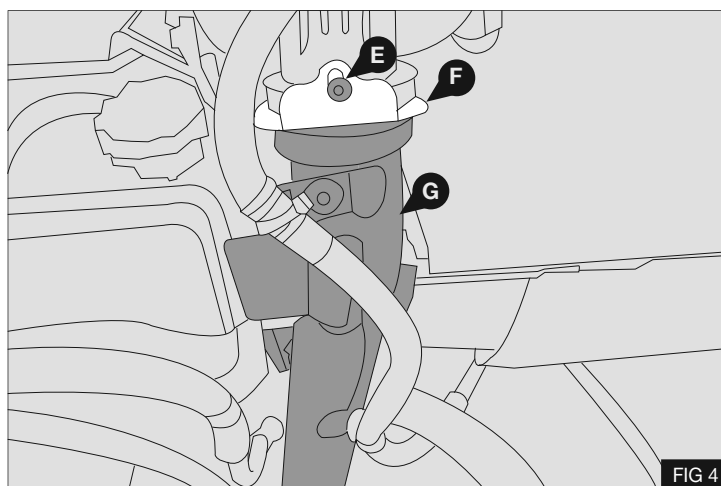


FIG 4



8. Using a 17mm double hex socket rotate the automatic belt tensioner pulley (H) anti-clockwise and insert a suitable 6mm pin at point (I) - Fig.5
9. Remove and discard the original manufacturers poly groove drive belt (J) - Fig.5

**NB:** It is NOT necessary to remove the original stretch belt (H) from the fan assembly - Fig 5

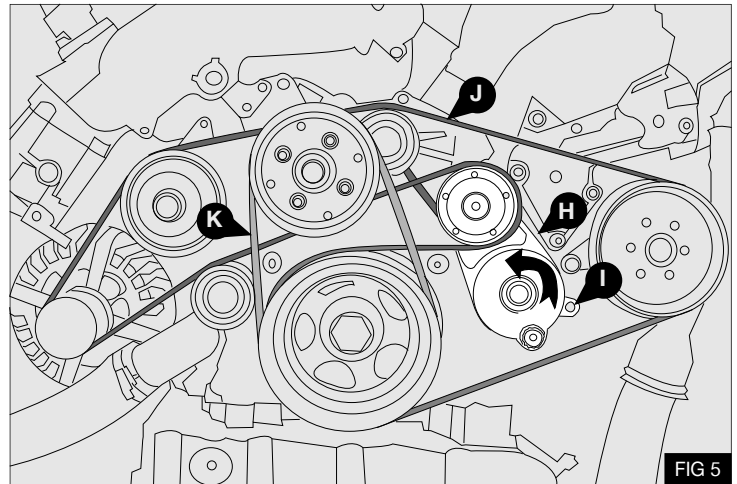


FIG 5

### COMPRESSOR BRACKET INSTALLATION

1. Install the supplied compressor mount bracket (1) using the three supplied bolts (3) M8 x 30 - Fig.6
2. Torque bolts (3) to 25Nm / 18lb.ft. using a calibrated torque wrench.

**NB:** Please refrain from using "Loctite" unless otherwise notified

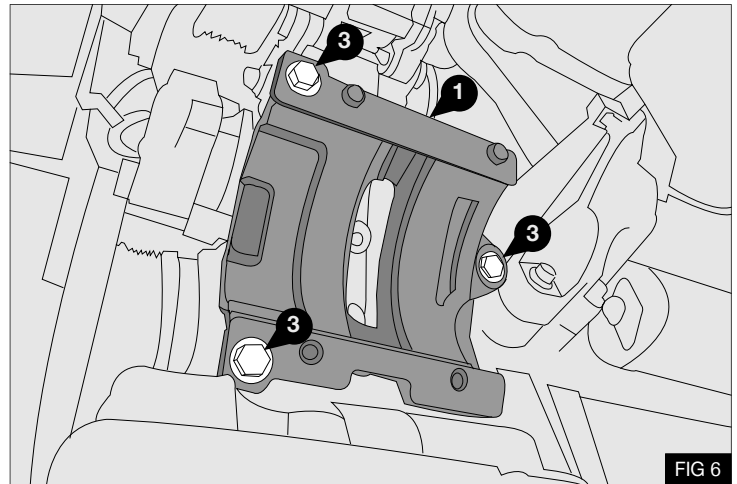


FIG 6

### COMPRESSOR INSTALLATION

1. Install the compressor (L) (Not supplied) using the four supplied bolts (4) M8 x 90 - Fig.7
2. Torque bolts (4) to 17Nm / 13lb.ft. using a calibrated torque wrench.
3. Fit the supplied manifold (10) to the compressor using the original M10 bolt- Fig.7

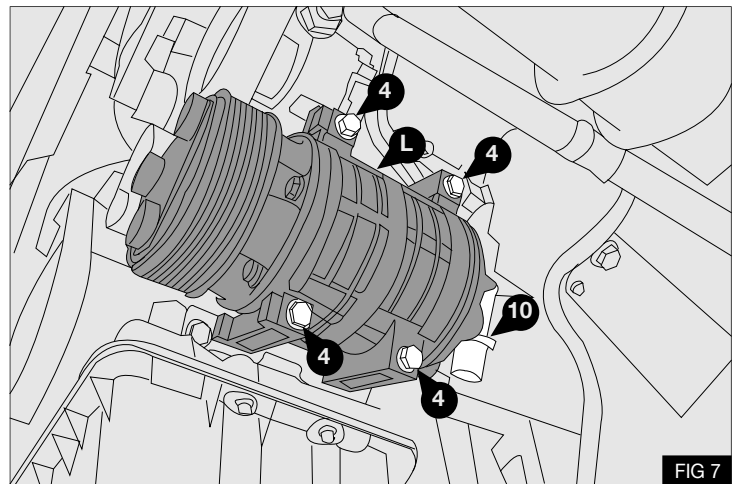


FIG 7

### DRIVE BELT

1. Fit the supplied replacement poly groove engine drive belt (9) to the engine in the configuration shown - Fig.8

CP Crankshaft Pulley  
 AT Automatic Tensioner  
 AL Alternator  
 RC Refrigeration Compressor  
 PS Power Steering  
 IP Idle Pulley  
 WP Water Pump

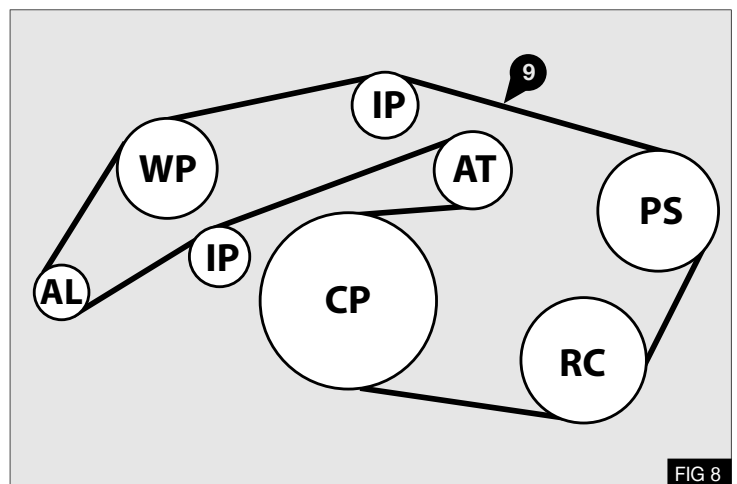


FIG 8

**NB:** Align the supplied drive belt by installing in the correct clutch groove - Fig.9

2. Remove the previously installed 6mm pin from the automatic tensioner to tension the belt - Fig 5

### INTERCOOLER PIPE INSTALLATION

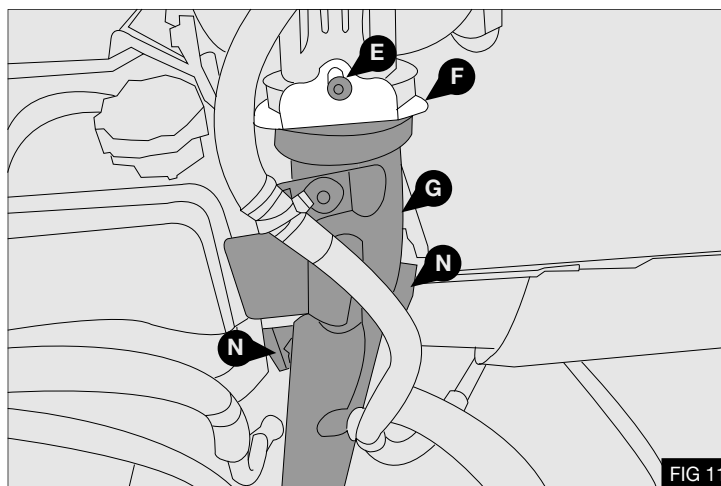
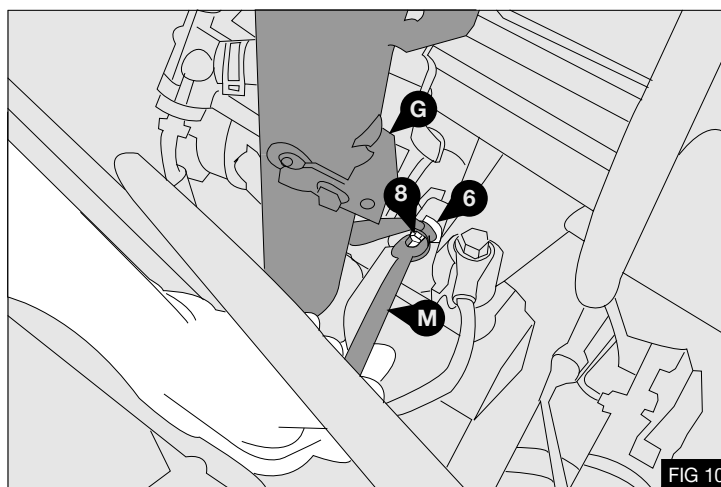
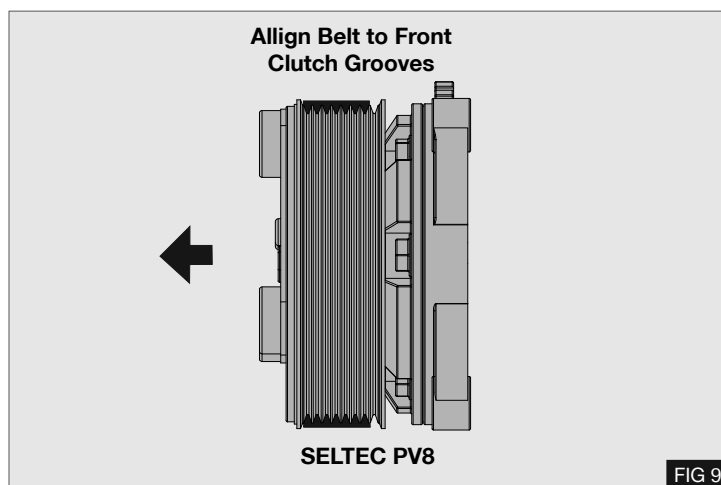
1. Refit the intercooler pipe ④ with the supplied M6 x 25 bolt ⑧ and 8mm Spacer ⑥ fitted behind the lower support bracket - Fig.10

**NB:** Use the open end of a 10mm spanner ⑭ to help with installation of the bolt - Fig.10

2. Fit the two supplied M6 x 12 bolts ⑦ and 4mm Spacers ⑤ fitted behind the upper support brackets at points ① - Fig.11
3. Refit the intercooler retaining clip ② and screw ③ - Fig.11
4. Refit the intercooler hose ④ - Fig.3
5. Refit the air box ⑤ - Fig.1
6. Refit the wiring plug ⑥ - Fig 2
7. Refit the M6 - E10 Torx bolt securing the fan assembly - Fig.2

### POST INSTALLATION

1. Before starting the engine check all the installed parts and ensure that the belt is installed correctly. Run the unit for at least ten minutes, then check the whole mounting assembly and previously removed parts. Attach the supplied warning label on to a suitable location.





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