



Techni
ENGINEERING SOLUTIONS

VOLKSWAGEN CRAFTER 2.0L

CR30 / CR35 / CR39 / CR50

CODE / CODICE: 0500.6272

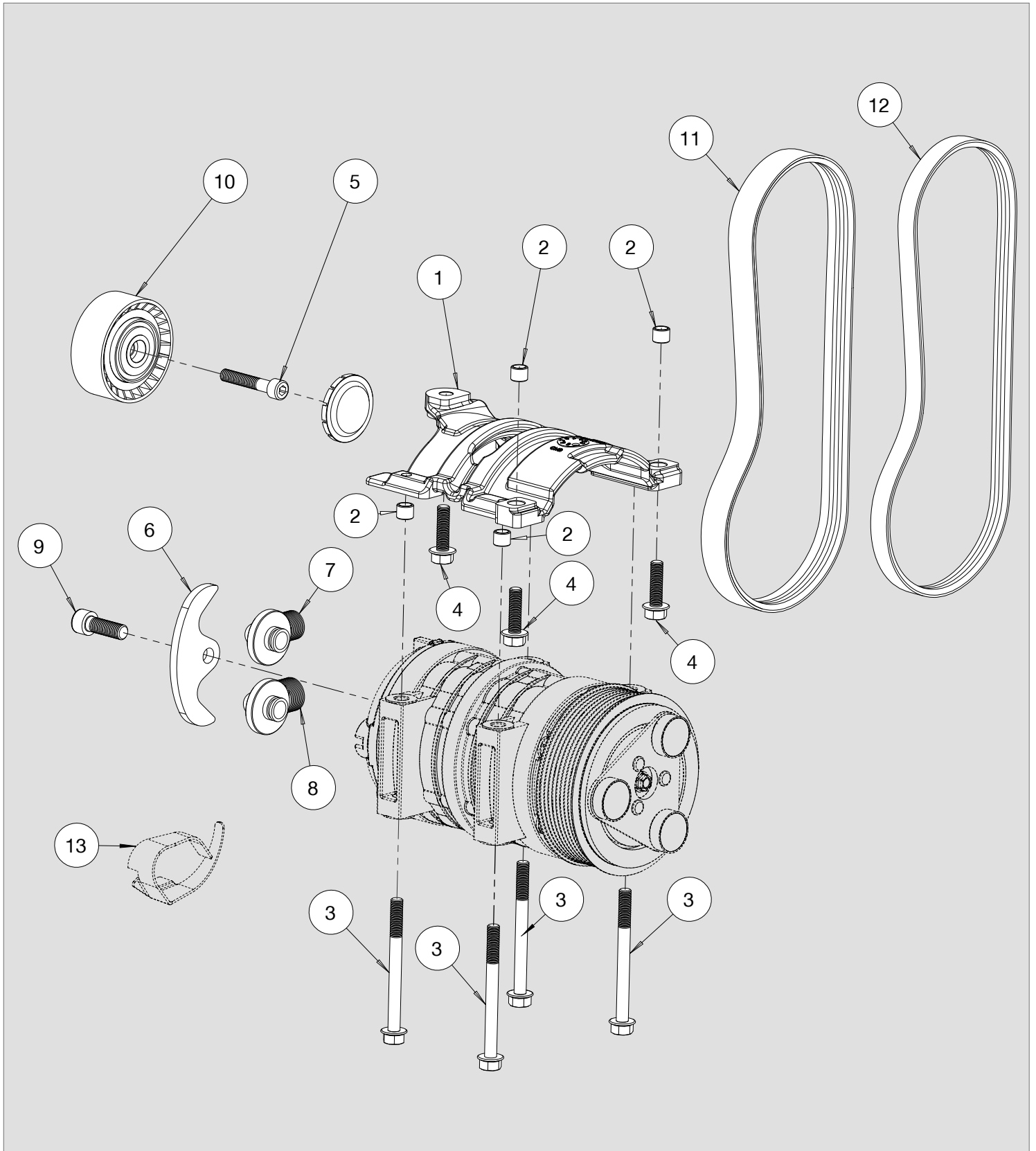
**COMPRESSOR / COMPRESSEUR / KOMPRES-
SOR / COMPRESSORE / COMPRESOR :
SELTEC TM15
QUE QP15**

**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	0440.5031	CMB - VW Crafter 2.0 E5 No A/C - TM15 Direct	1	-
2	2800.5571	Dowel Bush	4	-
3	2704.5381	Hex flange bolt - M8 x 90 : 1.25 - 8.8	4	-
4	2704.1021	Hex flange bolt Durlok - M8 x 35 : 1.25 - 12.9	3	-
5	2704.5341	Hex socket head cap screw M8 x 45 : 1.25 - 12.9	1	-
6	3020.5791	Manifold clamp	1	-
7	1515.5003	Fitting - Discharge	1	-
8	1520.5003	Fitting - Suction	1	-
9	2705.5051	Socket cap screw M10 x 30 : 1.50 - 12.9	1	-
10	1700.5131	Idle Pulley VW 6PK x 70	1	-
11	0820.0231	Belt - Poly Groove 6PK 1650	1	-
12	0820.5231	Belt - Poly Groove 4PK 711 Elast	1	-
13	2510.5021	Stretch Belt Installation Tool	1	Not Included

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

SELTEC	-	TM13-HS	-
Comp No	-	0381.5062	-
Valeo No.	-	10055082	-
Mounting	-	Direct	-
Rotor	-	8PV	-
GL	-	3E	-
Armature	-	123	-
Diameter	-	12	-
Voltage	-	V	-
Orientation	-	3/4 x 7/8	-
Fitting	-	Bolt	-
Manifold	-	-	-

QUE	-	QP15-HD	-
Comp No	-	0391.5062	-
Que No.	-	QP15-1280	-
Mounting	-	Direct	-
Rotor	-	8PV	-
GL	-	3E	-
Armature	-	123	-
Diameter	-	12	-
Voltage	-	V	-
Orientation	-	3/4 x 7/8	-
Fitting	-	Bolt	-
Manifold	-	-	-

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.

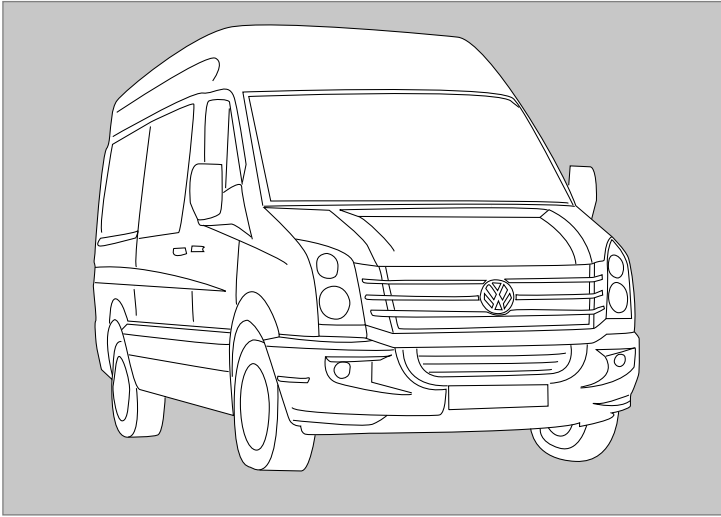
VALORI STANDARD DI SERRAGGIO PER DISPOSITIVI DI FISSAGGIO

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	Volkswagen
Make	Crafter
Model	CR30 / CR35 / CR39 / CR50
Engine	109PS / 136PS / 163PS ~ 2.0L (1968CC)
Engine Details	CKTB/CKTC/CKUC/CKUB~E5 / EEV
Year	10.2010>
Chassis Nos.	N/A
LHD	YES
RHD	YES
PAS	YES
A/C	NO
Voltage	12v

KIT DETAILS

Kit Part No.	0500.6272
Description	Standard Kit
Compressor RPM	4175 @ Max Engine
	Power Output
Fitting Time	40 Minutes
Suction Fitting	45°
Discharge Fitting	45°
Belt Type	6PK 1650
Belt Part No.	0820.0231
Compatible with:	BlueMotion / Stop/start

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.

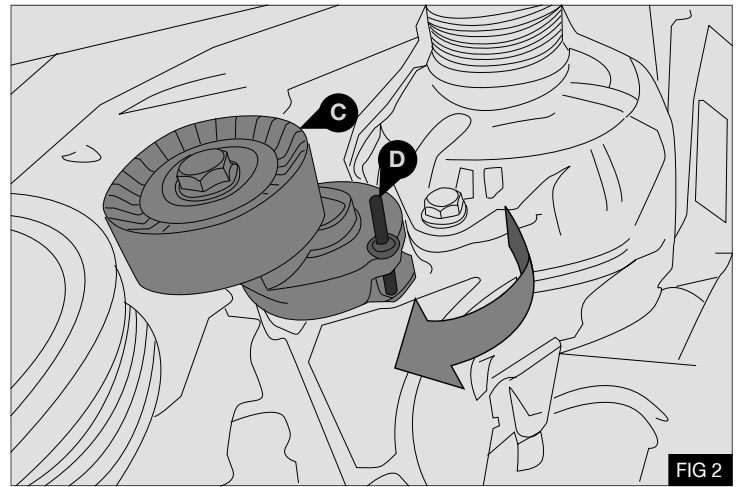
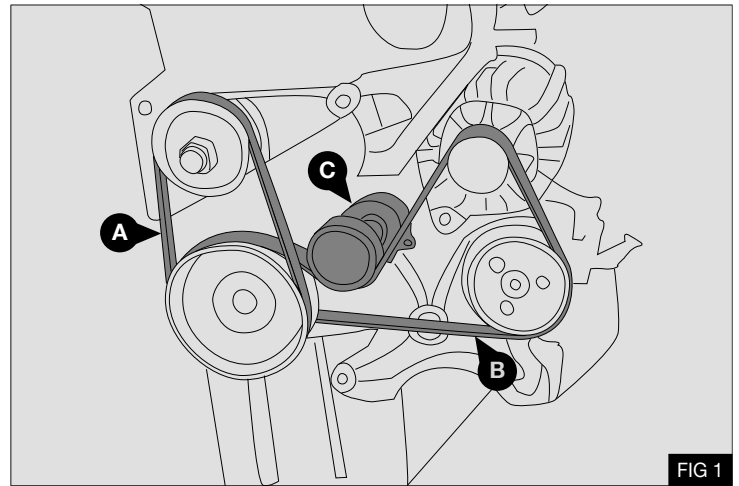
PRE INSTALLATION

N.B 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.

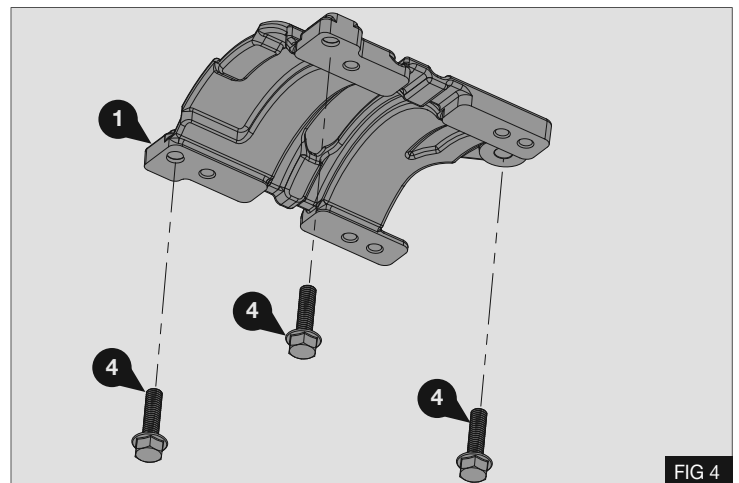
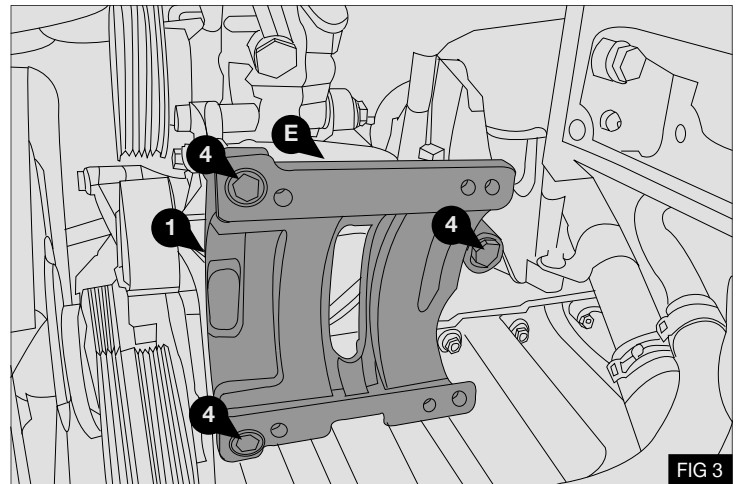
Dismantle the following:

1. Remove and discard the original stretch belt (A) from the fan - Fig 1
2. Using a suitable 16mm hex tool rotate the automatic tensioner pulley (C) in a clockwise direction and insert a 4mm pin in the tensioning element (D) - Fig 2
3. Remove and discard the drive belt (B) - Fig 1

NB: Please refrain from using “Loctite” unless otherwise notified

**COMPRESSOR BRACKET INSTALLATION**

1. Loosely install the compressor mount bracket (1) onto the original mounting bracket (E), using the supplied M8 x 35 bolts (4) - Fig.3
2. Torque the mounting bolts (4) to 29Nm / 21lb.ft using a calibrated torque wrench - Fig.4



IDLE PULLEY INSTALLATION

1. Fit the supplied Idle pulley (10) to the original auxiliary mounting bracket using the supplied M8 x 45 bolt (5) - Fig.5
2. Torque bolt (5) 29Nm / 21lb.ft. using a calibrated torque wrench.
3. Fit the supplied idle pulley bearing cover (F)

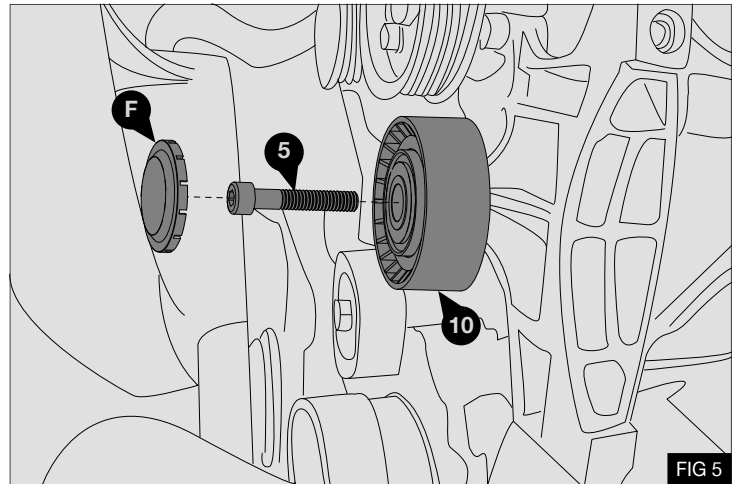


FIG 5

COMPRESSOR ASSEMBLY

1. Fit the supplied compressor fittings (7) and (8) as shown opposite, secure using clamp (6) and M10 x 30 bolt (9) - Fig.6
2. Orientate the fittings as shown in the inset view.
3. Torque bolt (9) to 45Nm / 33lb.ft using a calibrated torque wrench - Fig.6

NB: Align supplied suction and discharge fittings as shown in - Fig.6

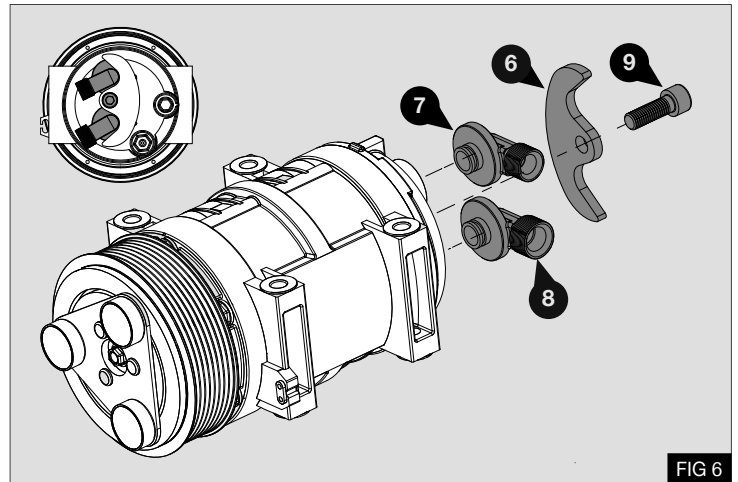


FIG 6

COMPRESSOR INSTALLATION

1. Install the compressor to the mount bracket (1) using the supplied M8 x 90 bolts (3) - Fig.7
2. Torque the four bolts (3) to 17Nm / 13lb.ft. using a calibrated torque wrench.

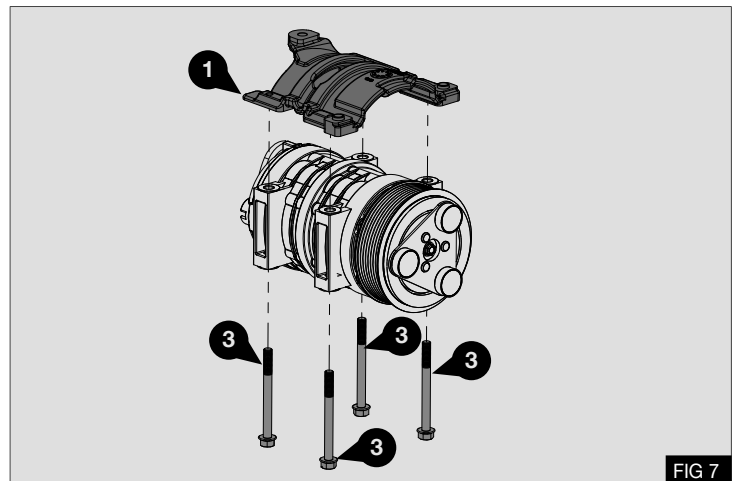


FIG 7

DRIVE BELT

1. Fit the supplied replacement poly groove engine drive belt (11) 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
CF Cooling Fan

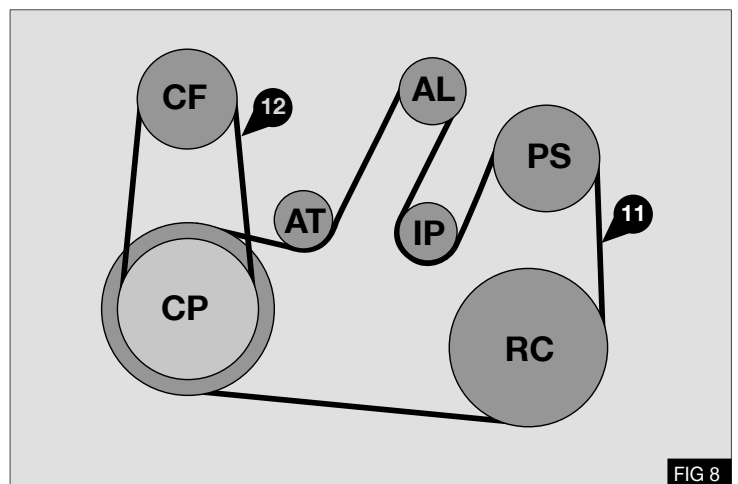


FIG 8

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

- Remove the previously installed 4mm pin from the automatic tensioner to tension the belt - Fig.2.

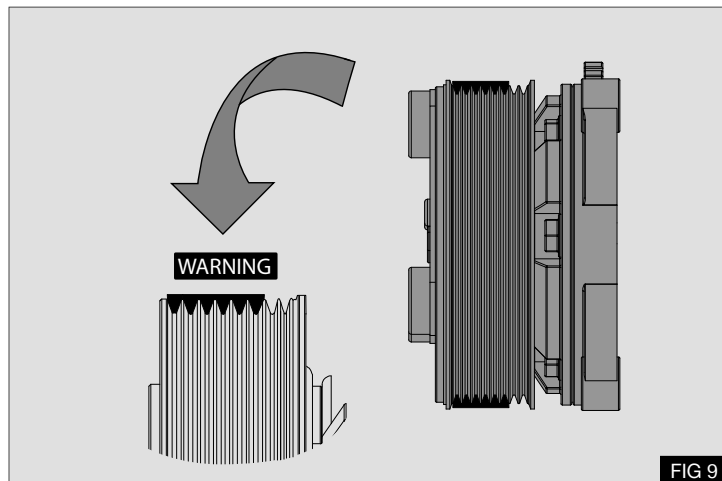


FIG 9

STRETCH BELT

- Remove the three original bolts (G) securing the viscous fan bracket (H) to the engine - Fig.10
- Carefully feed one side the supplied drive belt (13) between the rear of the viscous fan bracket and the engine, loop the belt around the bracket and onto the viscous fan pulley.
- Re-fit the viscous fan bracket to the engine using the original three bolts (G).
- Torque bolts (G) to 50Nm / 37lb.ft + 90 degrees
- Lay drive belt (12) on the viscous fan pulley. Mount the poly-V belt fitting tool (13) (not supplied) on the crank pulley and place the belt (12) over the top of it - Fig.11
- Turn the engine 180 degrees in a clockwise direction using a 19mm double hex tool on the main crankshaft bolt whilst guiding the belt onto the crankshaft pulley. Check for correct belt location in both of the pulleys and remove the poly-V belt fitting tool (13) (not supplied).

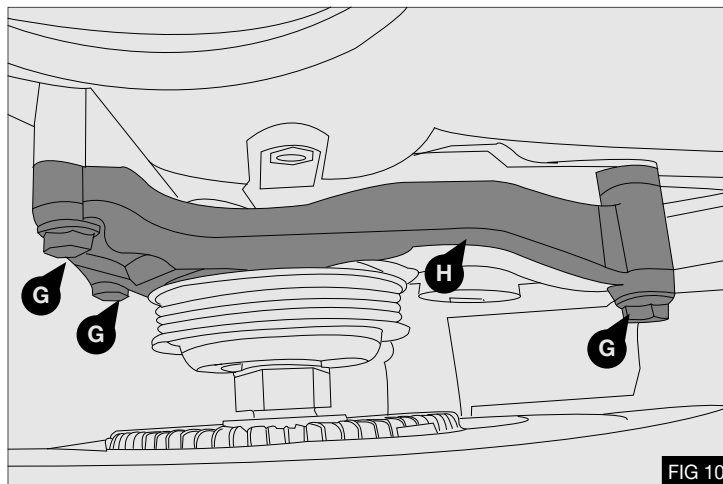


FIG 10

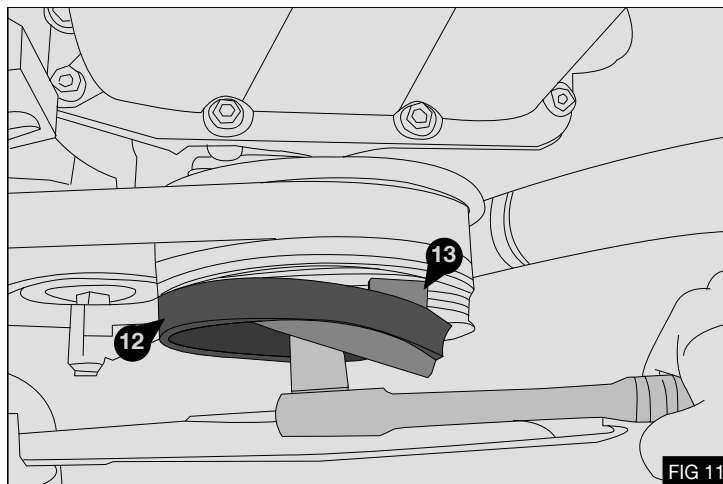


FIG 11

POST INSTALLATION

- 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.

(EN)

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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