



Techni
ENGINEERING SOLUTIONS

**RENAULT TRAFIC / VAUXHALL GM /
VIVARO
FIAT TALENTO / NISSAN NV300
1.6 dCi / CDTi Euro 5B+ /Euro 6
90, 115, 120, 140**

CODE / CODICE: 0500.7922

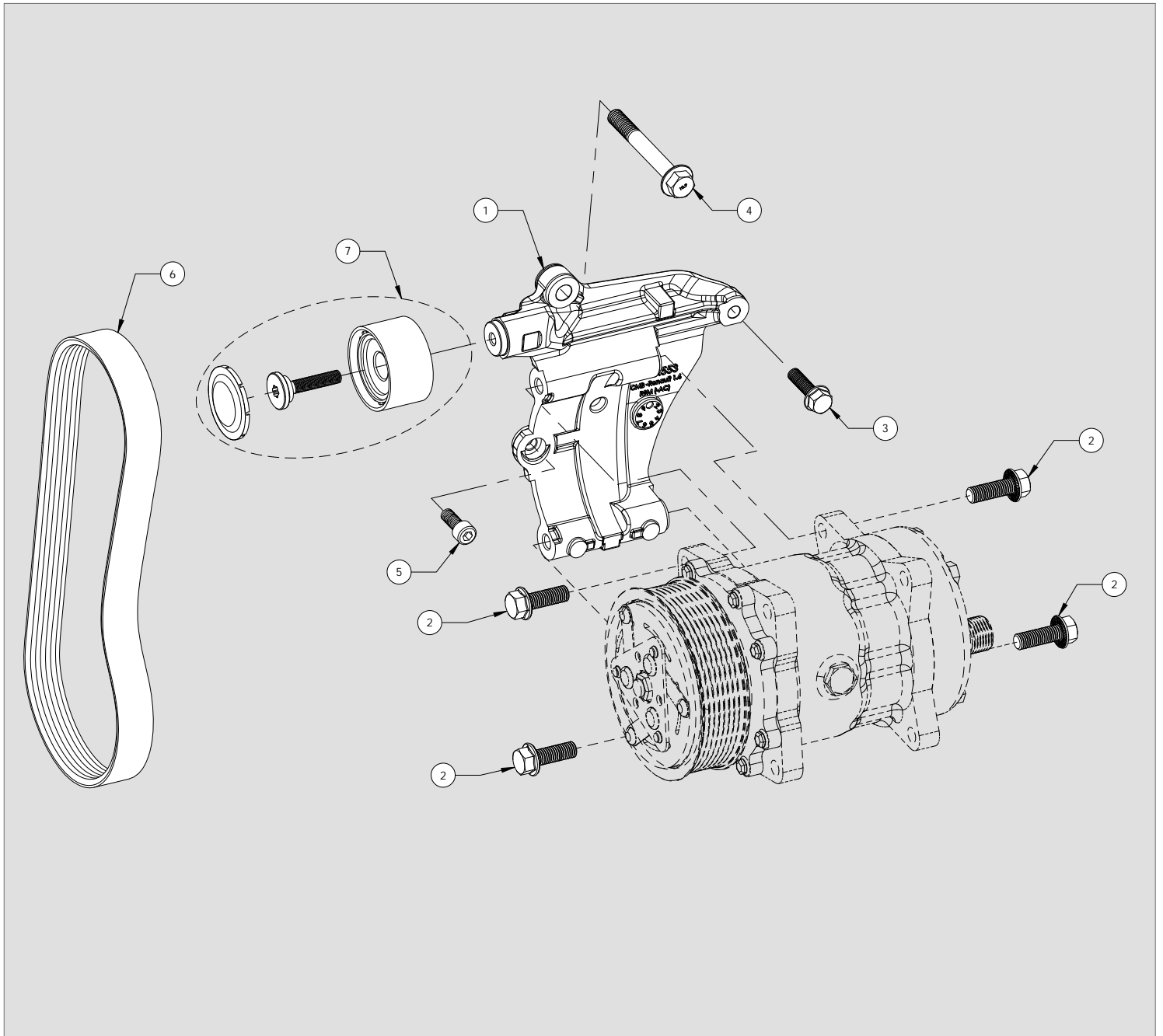
**COMPRESSOR / COMPRESSEUR / KOMPRES-
SOR / COMPRESSORE / COMPRESOR :
SELTEC: TM13 / 15
QUE: QP13 / 15
SANDEN: SD7H15**

**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	0441.5531	CMB Assy Renault 1.6 R9M (-AC)	1	
2	2705.0491	Hex flange bolt Durlok - M10 x 30 : 1.50 - 12.9	4	
3	2704.0091	Hex flange bolt Durlok - M8 x 30 : 1.25 - 12.9	1	
4	2705.5371	Hex Flange Bolt M10 x 80 1.5pt 10.9	1	
5	2704.5701	Socket cap screw M8 x 20 :1.25 - 12.9	1	
6	0820.7521	Belt - Poly Groove 7PK 1730	1	
7	1700.5161	Idle Pulley 54mm inc Cap and Bolt	1	

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

SELTEC	TM-13 HS	TM-15 HS	-
Comp No	0381.0352	0381.5002	-
Valeo No.	435-54122	435-55122	-
Mounting	Ear	Ear	-
Rotor	8PV	8PV	-
GL	46.55mm	46.55mm	-
Armature	3E	3E	-
Diameter	123	123	-
Voltage	12	12	-
Orientation	H	H	-
Fitting	3/4 x 7/8	3/4 x 7/8	-
Manifold	Bolt	Bolt	-

QUE	QP-13 HS	QP-15 HS	-
Comp No	0391.0352	0391.5002	-
Que No.	QP13-1274	QP15-1266	-
Mounting	Ear	Ear	-
Rotor	8PV	8PV	-
GL	46.55mm	46.55mm	-
Armature	3E	3E	-
Diameter	123	123	-
Voltage	12	12	-
Orientation	H	H	-
Fitting	3/4 x 7/8	3/4 x 7/8	-
Manifold	Bolt	Bolt	-

SANDEN	-	-	SD7H15
Comp No	-	-	0370.0161
Sanden No.	-	-	8027
Mounting	-	-	Ear
Rotor	-	-	8PV
GL	-	-	50.1mm
Armature	-	-	SL
Diameter	-	-	119
Voltage	-	-	12
Orientation	-	-	H
Fitting	-	-	3/4 x 7/8

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.

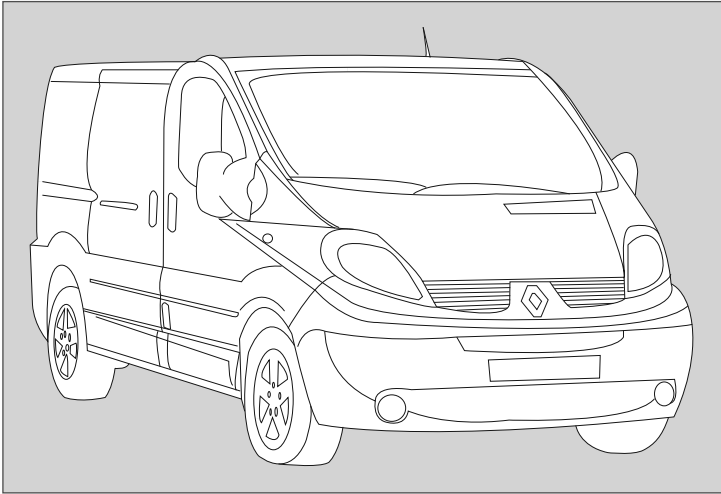
VALORI STANDARD DI SERRAGGIO PER DISPOSITIVI DI FISSAGGIO

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	Renault / Vauxhall GM/ Fiat/ Nissan
Model	Trafic / Vivaro/ Talento/ NV300
Type	1.6 dCi / CDTi 90, 115, 120, 140
Engine Details	Euro 5B+ Euro 6 R9M408 / R9M450
Year	10.14>
Chassis Nos.	N/A
LHD	YES
RHD	YES
PAS	YES
A/C	NO
Voltage	12v

KIT DETAILS

Kit Part Number	0500.7922
Description	Standard Kit
Compressor RPM	4600 @ Max engine power output
Fitting Time	60 Minutes
Suction Fitting	Straight (All Comps)
Discharge Fitting	45° (Valeo/Que) Straight (Sanden)
Belt Type	7PK 1730
Belt Part Number	0820.7521

Note: Stop-Start vehicles **must** have the fast idle option fitted:-

GM (Vauxhall) – KPD and/or UF3.

Renault – CABADP and/or RALENT.

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.

REMOVAL OF PARTS

1. Engine under panel (A) - Fig 1
2. Release tension on automatic belt tensioner (B) and lock using a $\varnothing 4$ mm pin. - Fig 2
3. Remove and discard original drive belt (C) - Fig 2
4. Remove and discard original fastener (D) - Fig 3

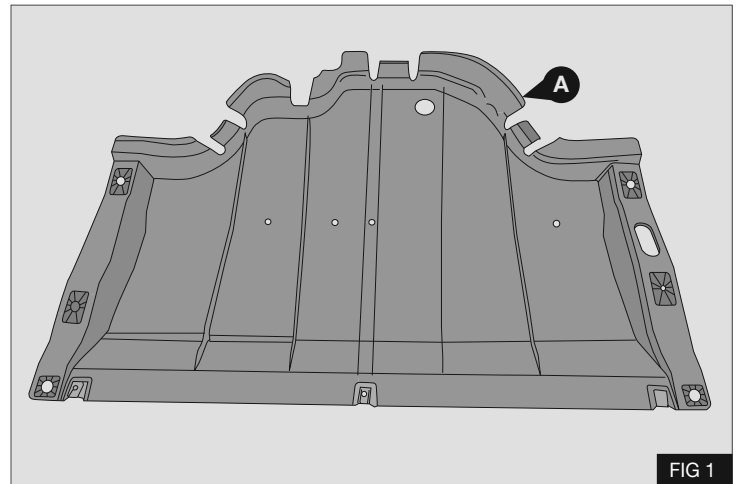


FIG 1

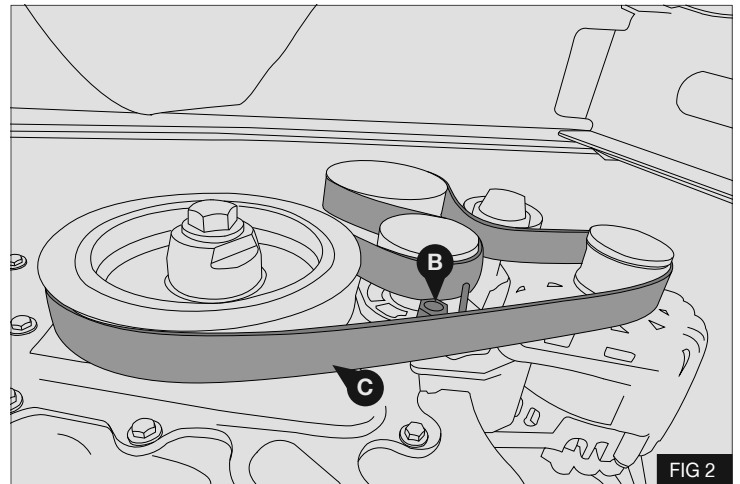


FIG 2

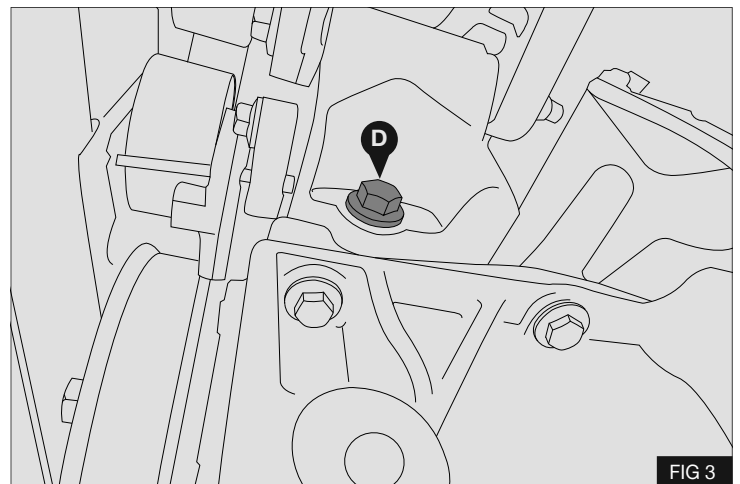


FIG 3

INSTALLATION

1. Assemble pulley (7a) onto compressor bracket (1) using pulley bolt (7b) and Cap (7c) - Fig 4

Torque bolt (7b) to 25Nm / 18 lb.ft

Warning: The pulley bolt (7b) is designed to fit into the pulley (7a) from one direction only. The metal bearing shield on the rear of the bearing should face the mount bracket (1)

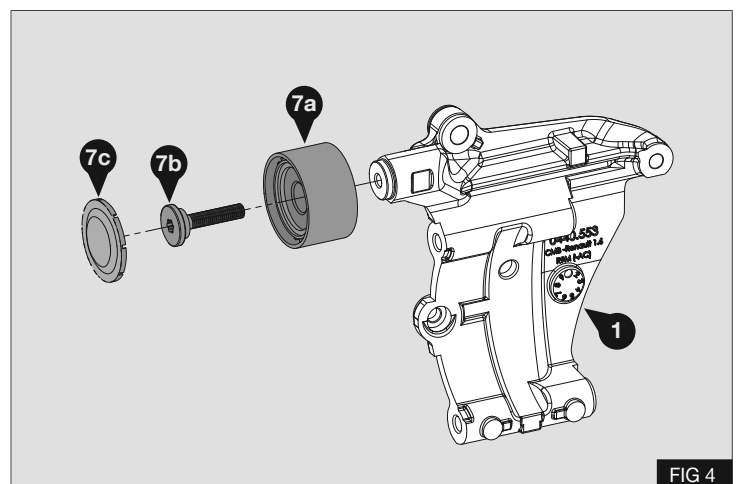


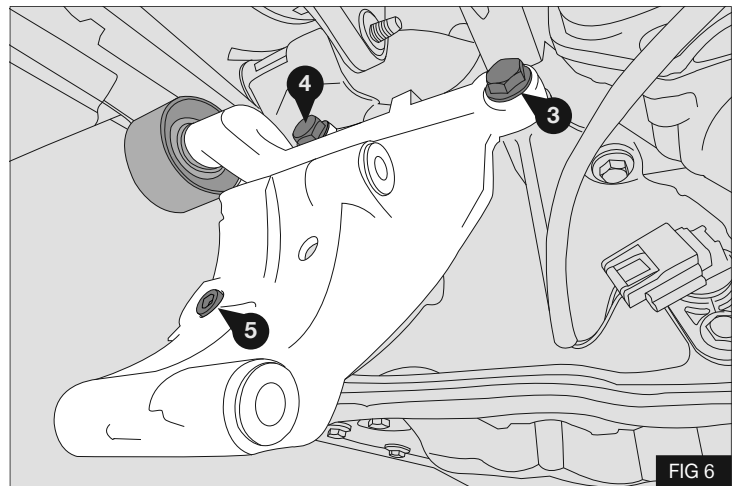
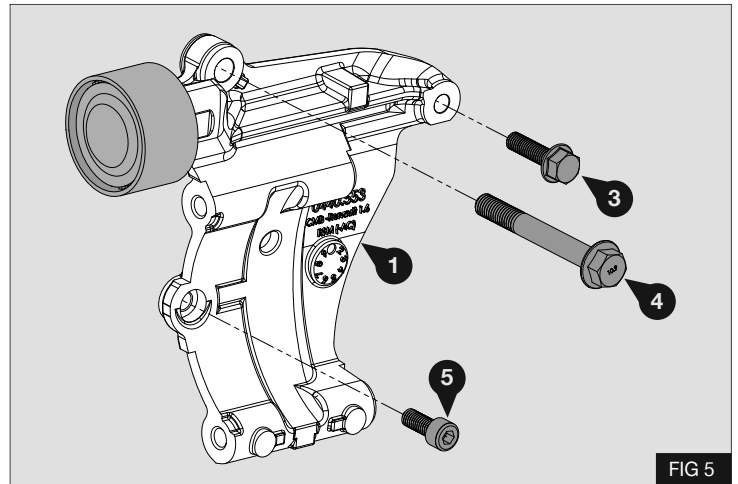
FIG 4

2. Fit bracket assembly using 1x M8x20 Cap head bolt (5), 1x M8x30 bolt (3) and M10x80 bolt (4). - Figs 5 & 6

Torque bolt (5) to 29Nm / 21.4 lb.ft

Torque bolt (3) to 29Nm / 21.4 lb.ft

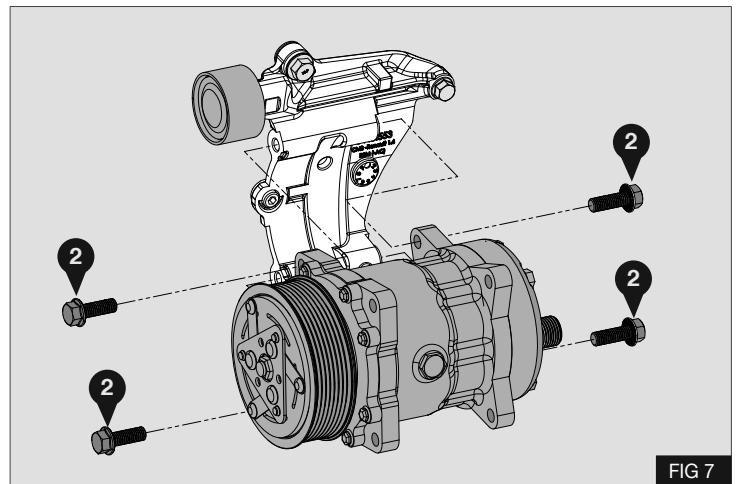
Torque bolt (4) to 48Nm / 35.4 lb.ft



3. Fit compressor to bracket using 4x M10x30 bolts (2). - Fig 7

Note: Tighten the front compressor bolts first

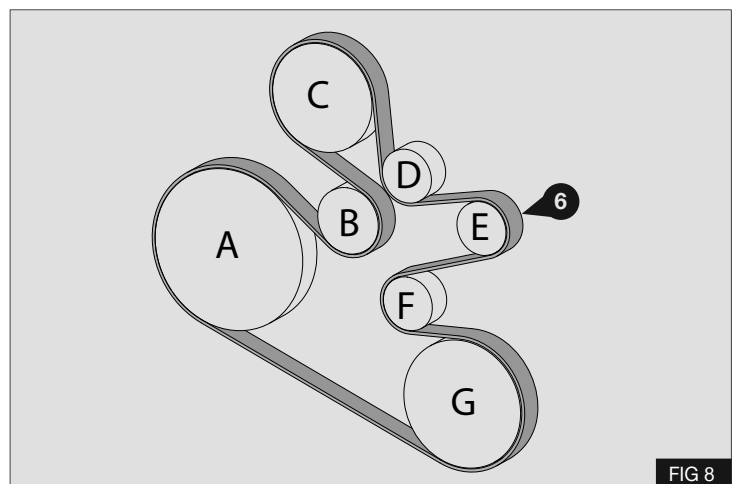
4. Torque bolts (2) to 58Nm / 42.8 lb.ft



DRIVE BELT

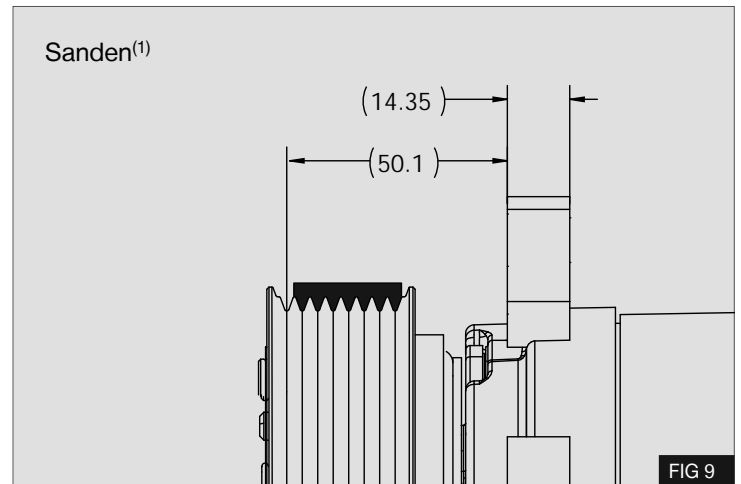
5. Install the supplied drive belt (6), Ensure correct location in compressor clutch and release automatic tensioner (B). - Figs 8,9, & 10

- A. Crankshaft pulley
- B. Tensioner
- C. Water pump
- D. Idler
- E. Alternator
- F. Idler
- G. Compressor



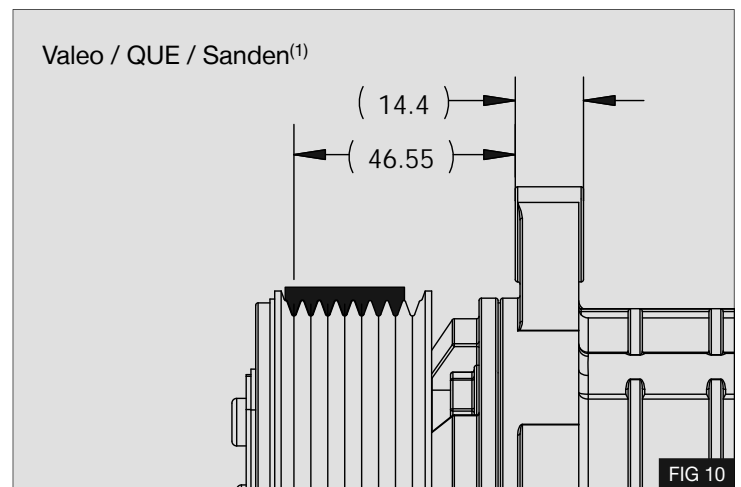
Sanden⁽¹⁾ compressors:- Belt is installed with one spare groove at the front of the compressor pulley. - Fig 9

⁽¹⁾Model Specific



Valeo/Que/Sanden⁽¹⁾ compressors:- Belt is installed into the grooves at the front of the compressor pulley. - Fig 10

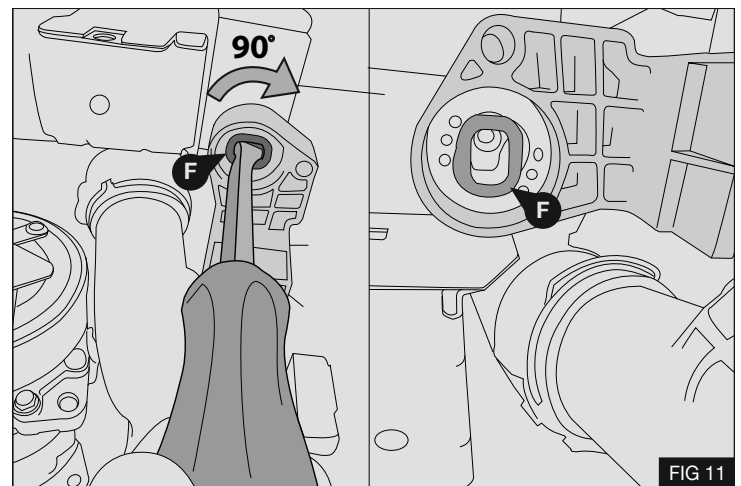
⁽¹⁾Model Specific



Caution: The following operations are required to improve clearance to the compressor rotor.

6. Temporarily remove bolt (E) - Fig 12

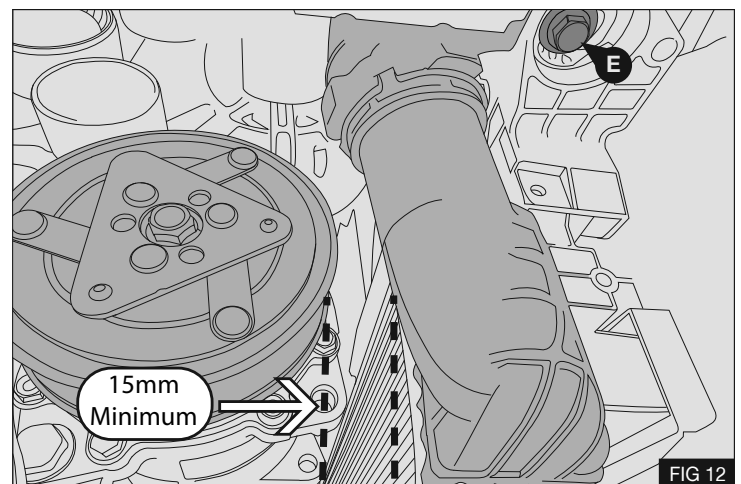
7. Rotate insert (F) 90deg. - Fig 11



8. Refit bolt (E) - Fig 12

9. Position the cooling pack to obtain MAX clearance to the compressor rotor. - Fig 12

10. Torque bolt (E) to 20Nm / 14.7Lbft.



ELECTRICAL INTERFACE

1. Vehicles fitted with Stop / Start technology must have the fast idle activated when combined with this compressor mount kit.
2. Full details of how to complete this operation are contained within the Renault / Vauxhall / GM conversion guidelines for this vehicle in the following locations -
3. Renault - 4.9 "CABADP" option / fast idle "RALENT" option
4. Vauxhall / GM - 4.9 wiring loom for conversions option "KPD" / fast idle option "UF3"
5. The fast idle is activated by connecting pin 2 of the 6 way connector (P) to earth – Fig 11
6. Manufacturers recommend that this connection is activated whenever the refrigeration / additional AC system is active
7. The 6 way connector (P) (black plug) is located in the left hand area of the dashboard behind the passenger compartment fuse and relay box. It is secured on the dashboard wiring using a tear-off link. Extra length is provided for the connection - Fig 12
8. The manufacturers provide a +12V battery power supply for use with auxiliary component wiring via a 2-way connector (Q). This connector is located beneath the drivers seat - Fig 13
 - Pin 1: +12V direct battery power supply for maximum consumption of 40A (wire section 7mm²). Protected by a 50A fuse.
 - Pin 2: Ground (wire cross-section 7mm² large enough to adapt to the battery +12V current).

NB The maximum permanent current of this power supply must not exceed 40A. This line is protected by the 50A fuse fitted in the electrical distribution unit (BDU)

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.

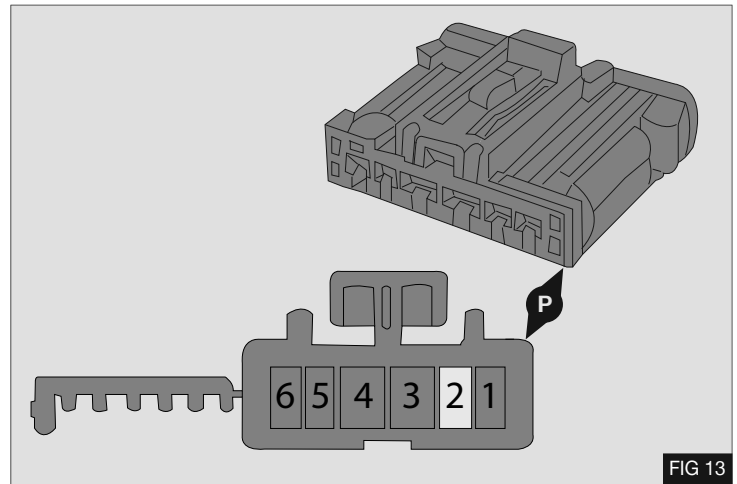


FIG 13

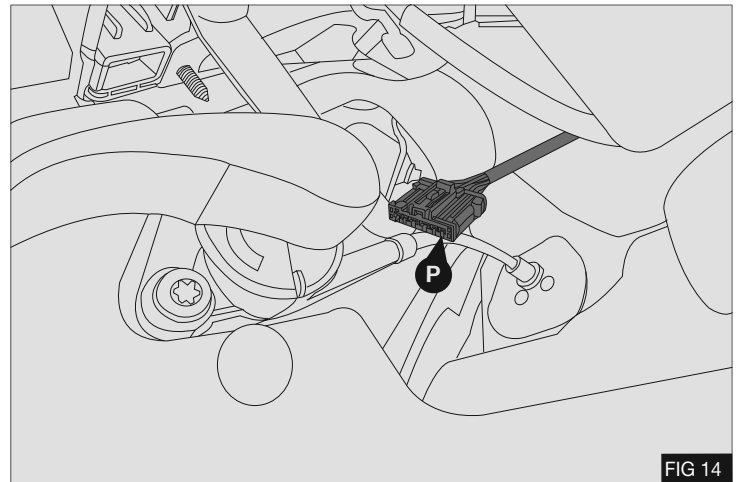


FIG 14

Ways (pins)	Connections	Allocations
1	BMT2	+12V "engine running" information (max.8A wire section 1mm ²)
2	3ADA	Fast idle control (500Ma max. wire section 0.35mm²)
3	SBP4	+12V load shedding (max 16A wire section 1.5mm ²)
4	LPH	+12V side lights (lamp) (max 16A wire section 1.5mm ²)
5	H1	"Ground" information - park brake on (500Ma max. wire section 0.35mm ²)
6	MAN	Ground - (section large enough to adapt to the +12V current distribution (wire section 1.5mm ²))

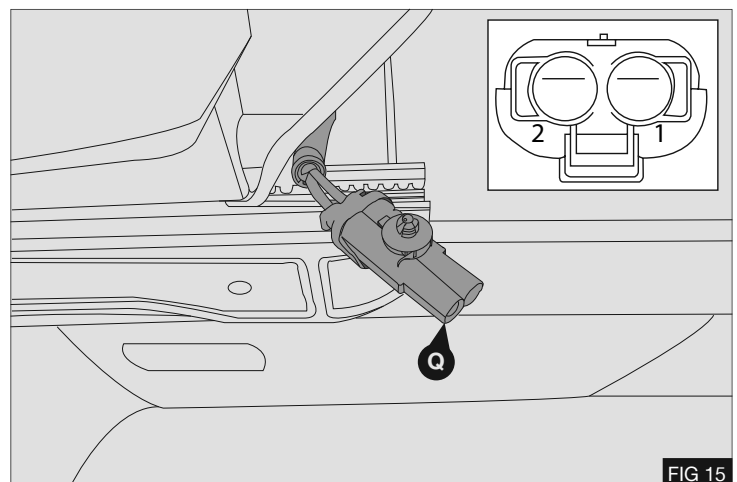


FIG 15

(EN)

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