



Techni
ENGINEERING SOLUTIONS

**MERCEDES VITO (W447) 2.1L EURO 6
OM 651 DE22LA
114 / 116 / 119 BLUETEC WITH 7G TRONIC PLUS GEARBOX**

CODE / CODICE: 0500.8062

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

SELTEC TM13 / 15 / 16

QUE QP13 / 15 / 16

FITTING INSTRUCTIONS

EINBAUANLEITUNGEN

INSTRUCTIONS POUR LE MONTAGE

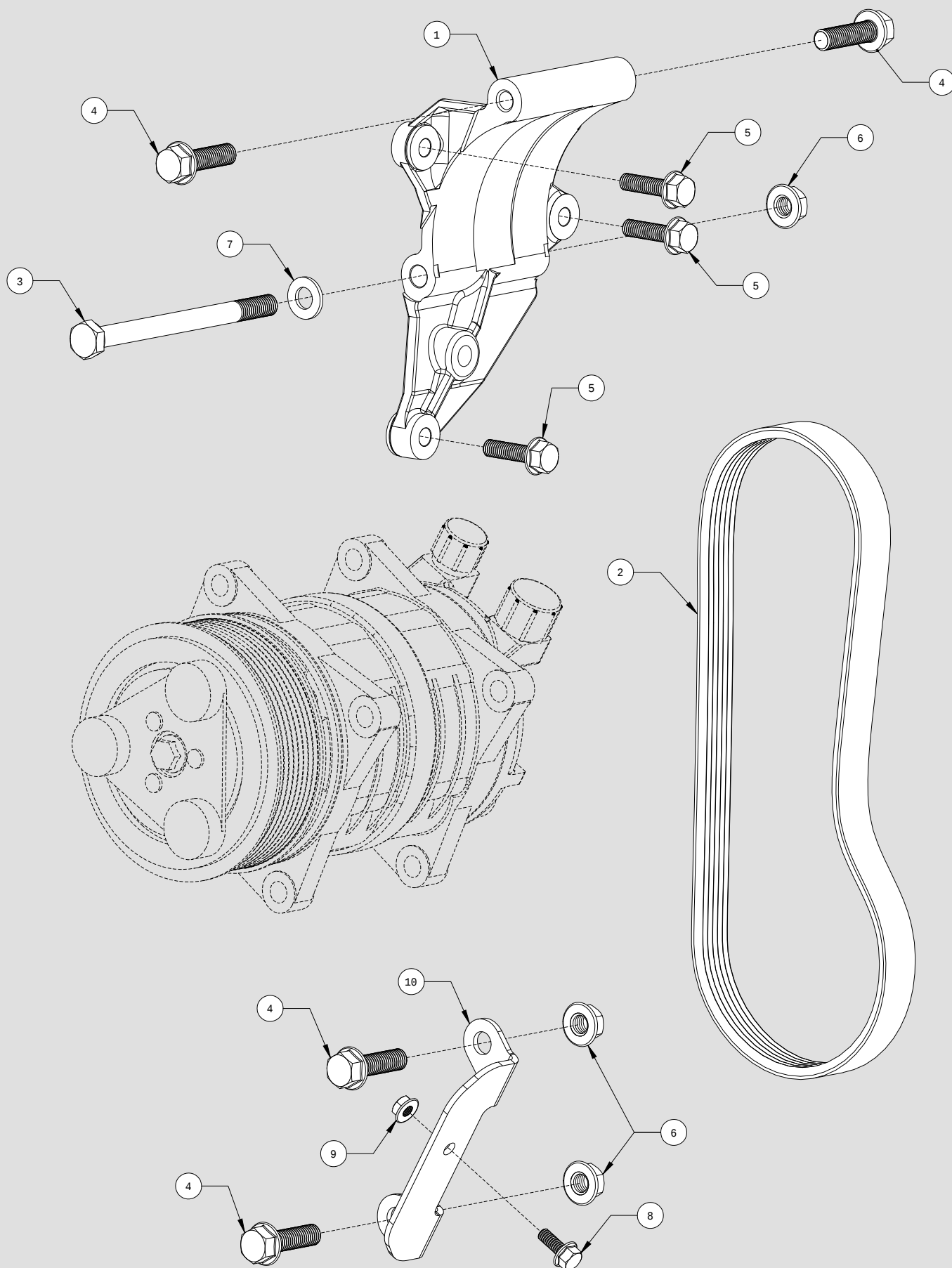
ISTRUZIONI DI MONTAGGIO

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	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 Durlok - M10 x 35 : 1.50 - 12.9	4	
5	2704.0091	Hex flange bolt Durlok - M8 x 30 : 1.25 - 12.9	3	
6	2735.0071	Durlok Hexagon Flange Nut - M10 : 1.50	3	
7	2809.0011	Washer M10 Flat DIN 125 - A 10.5	1	
8	2702.0131	Hex flange bolt Durlok - M6 x 16 : 1.00 - 12.9	1	
9	2732.0041	Hexagon flange nut Durlok - M6 : 1.00	1	
10	3020.6561	MB Vito BM447 - ATF Pipe Support Bracket	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.

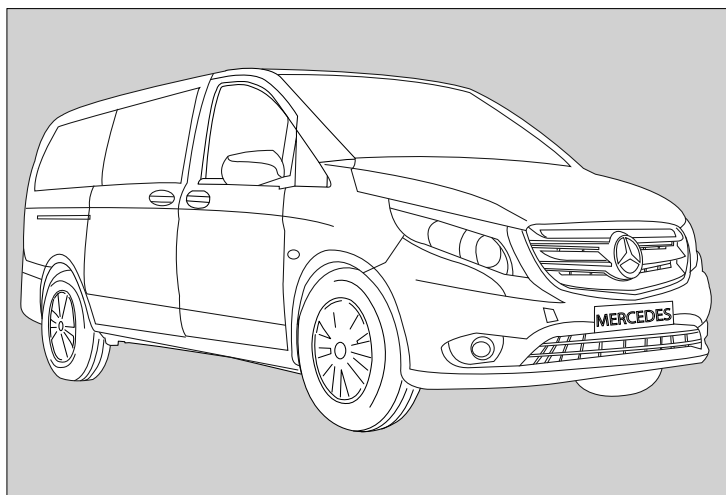
VALORI STANDARD DI SERRAGGIO PER DISPOSITIVI DI FISSAGGIO

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 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
Model	Vito
Type	114 / 116 / 119 BlueTEC with 7G TRONIC PLUS GEARBOX
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.	0500.8062
Description	Standard Kit
Compressor RPM	4726 @ Max Engine Power Output
Fitting Time	60 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 retain intercooler hose (D) and pipe securing clamp (E) – Fig 2
4. Bend pipes (F) and (G) along the straight sections (H) to achieve a clearance of 30mm to the original bracket (J) – Fig 3
5. Remove and discard the original foolish pulley assembly (K) and 3x securing bolts – Fig 4
6. Discard Bracket (J)

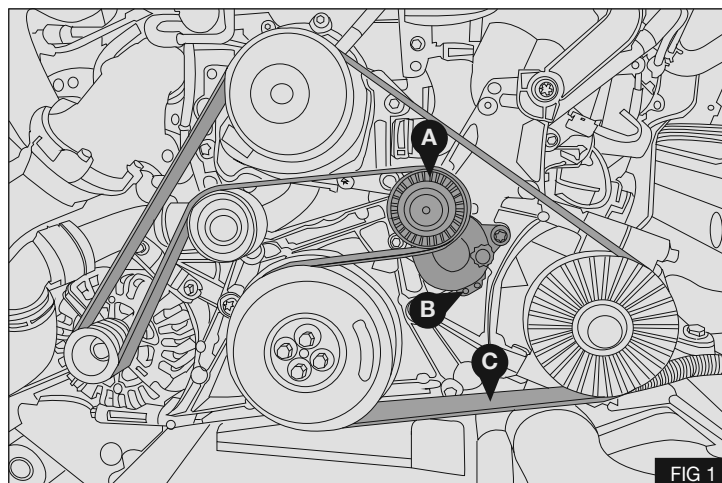


FIG 1

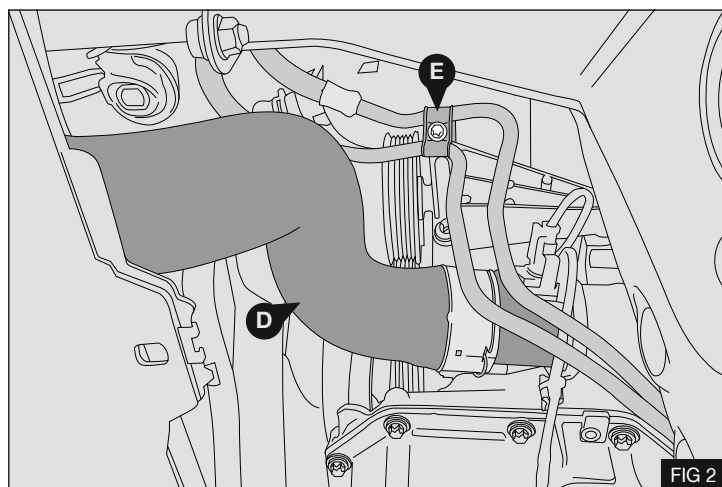


FIG 2

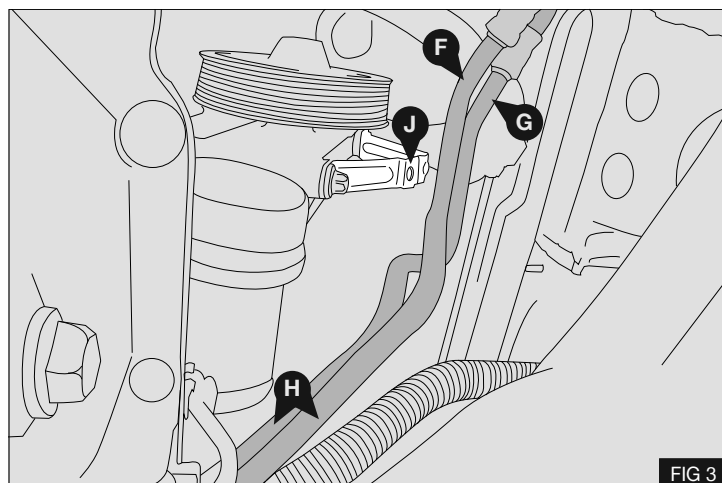


FIG 3

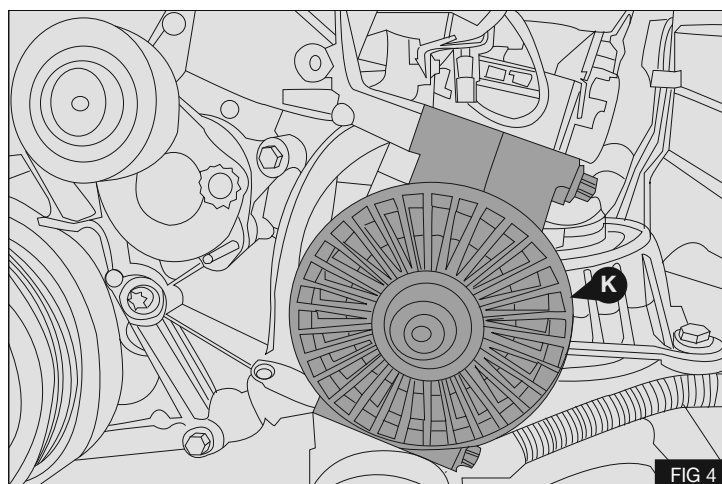


FIG 4

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 5

Torque 3x M8x30 bolts ⑤ to 29 Nm / 22 lb-ft

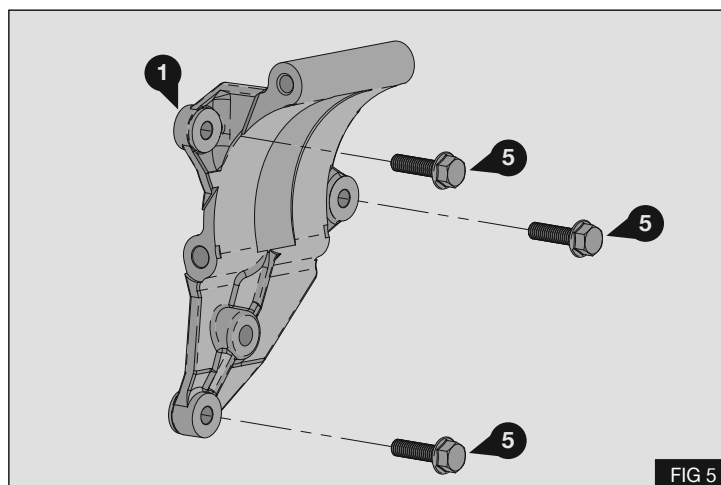


FIG 5

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 6

Torque 2 x M10x35 bolts ④ to 58 Nm / 43 lb-ft

Torque 1 x M10x130 bolt ③ to 58 Nm / 43 lb-ft

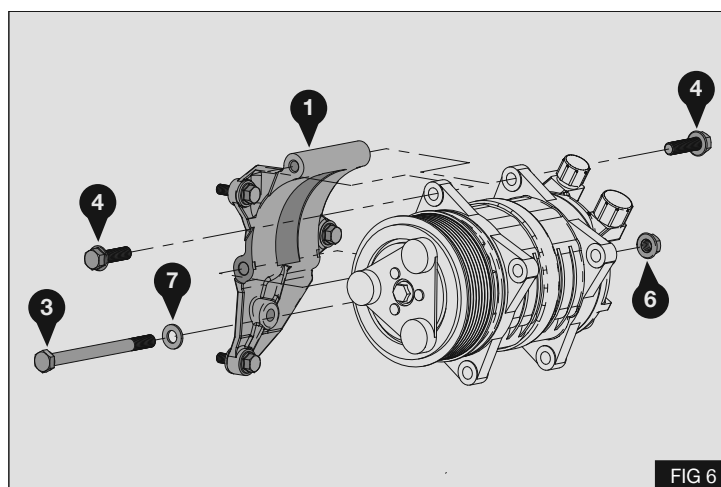


FIG 6

2. Install the supplied pipe support bracket ⑩ using bolts ④ and nuts ⑥ as shown opposite. - Fig 7

Torque bolts ④ to 44 Nm / 32 lb-ft

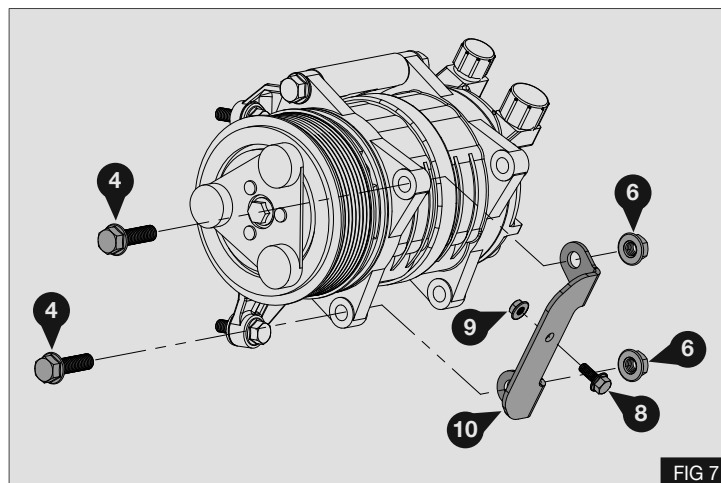


FIG 7

3. Secure pipes ⑥ and ⑦ using original clamp ⑤ to bracket ⑩ with nut ⑨ and bolt ⑧ - Fig 7/8

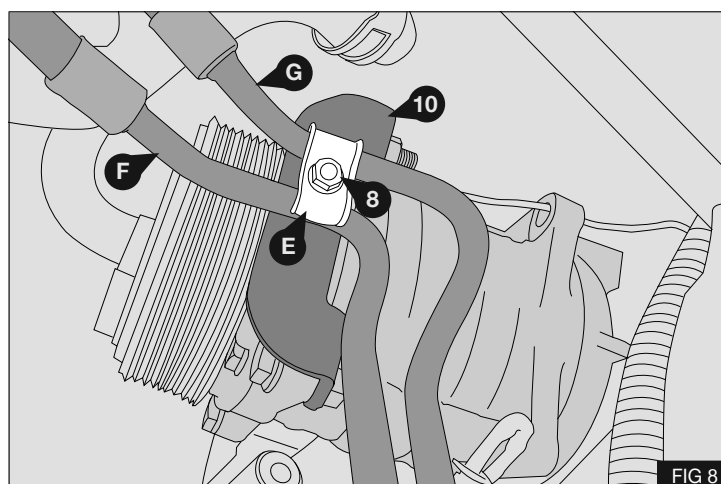


FIG 8

DRIVE BELT INSTALLATION

1. Fit the supplied drive belt ② as shown opposite - Fig 9

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

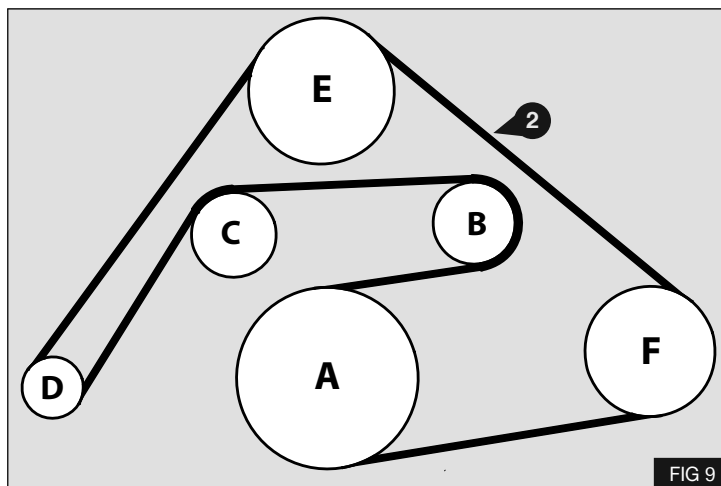


FIG 9

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

- A.** Valeo / QUE / Sanden⁽¹⁾ compressors – Belt is installed in the grooves at the front of the compressor pulley - Fig 10

⁽¹⁾Model Specific

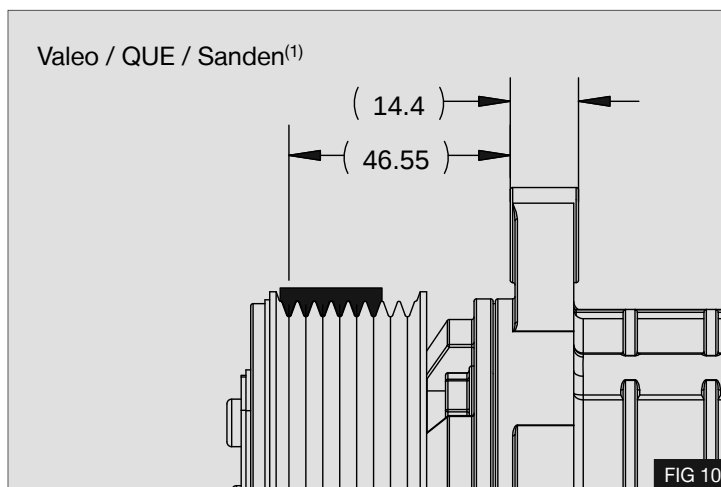


FIG 10

- B.** Delphi / Sanden⁽¹⁾ compressors - Belt is installed with 1 spare groove at the front of the compressor pulley - Fig 11

⁽¹⁾Model Specific

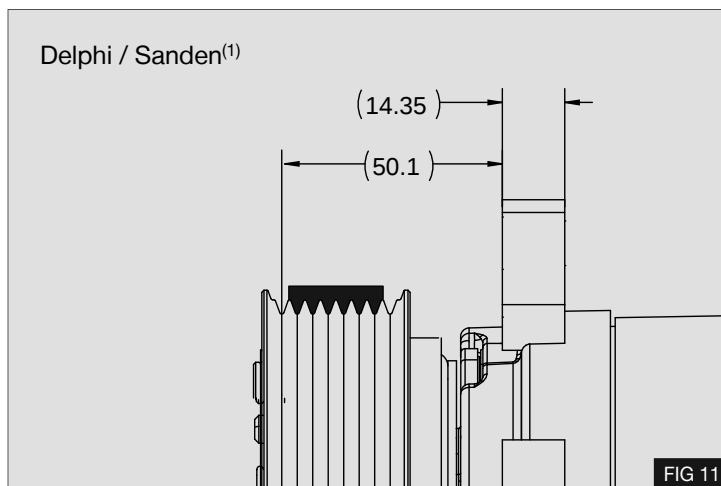


FIG 11

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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