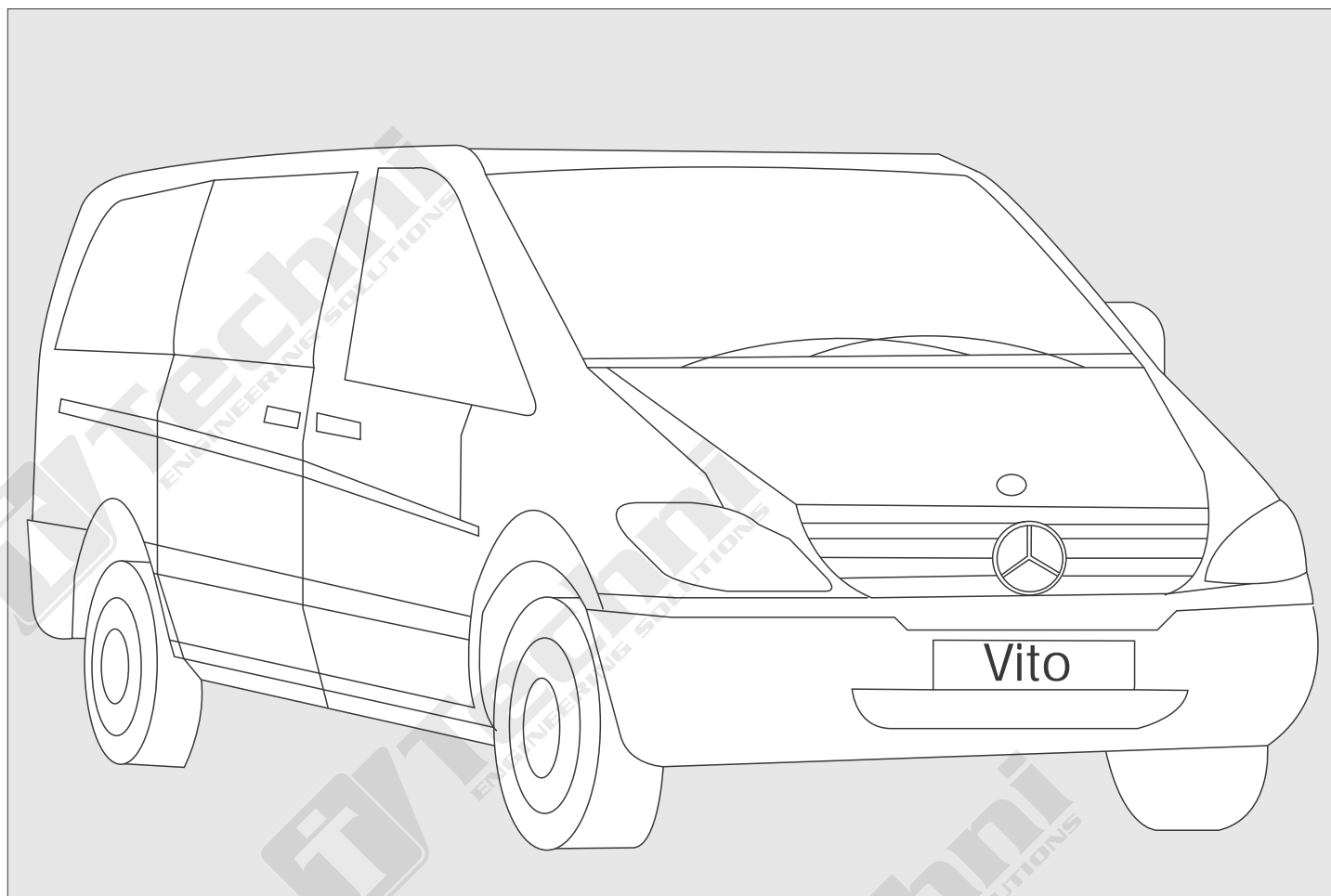


Einbauanleitung | Manuel d'instruction de montage | Manuale di istruzioni per l'installazione
Manual de instrucciones de instalación montaje

Fitting Instruction Manual

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VEHICLE DETAILS

Manufacturer	Mercedes Benz
Make	Vito
Model	109 CDI, 111 CDI, 515 CDI
Engine CC	2148cc 4cyl
Engine Details	OM646 DELA 70KW/95PS
	OM646 DELA85KW/116PS
	OM646 DELA 110KW/150PS
Year	2006>
Chassis Nos.	N/A
LHD	YES
RHD	YES
PAS	YES
A/C	NO
Voltage	12v

KIT DETAILS

Kit Part No.	0500.3812
Description	Standard Kit
Compressor RPM	4449 @ Max Engine
	Power Output
Fitting Time	60 Minutes
Suction Fitting	90°
Discharge Fitting	90°
Belt Type	6PK
Belt Part No.	0820.1301

RECOMMENDED COMPRESSORS

SELTEC	TM-13 HS	TM15-HS	TM16-HS
Comp No	0381.0152	0381.0002	0831.0312
Seltec No.	48844320	48845121	48846134
Mounting	Ear	Ear	Ear
Rotor	8PV	8PV	8PV
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	SD5H09	SD5H14	SD5H15
Comp No	-	0300.0461	0300.2001
Sanden No.	-	6629	8026
Mounting	-	Ear	Ear
Rotor	-	7PV	6PV
Armature	-	SL	SL
Diameter	-	124	125
Voltage	-	12	12
Orientation	-	V	V
Fitting	-	3/4 x 7/8	3/4 x 7/8

Notes

COMPRESSOR KIT CONFIGURATIONS						
PART NUMBER	COMPRESSOR KIT PART NOS				DESCRIPTION	QTY.
	0513.3812	0515.3812	0516.3812	,		
0381.0152	●				TM13 Ear Mount 8PV SL 123 12V V 3/4 x 7/8 Bolt	1
0381.0002		●			TM15 Ear Mount 8PV 3E 123 12V V 3/4 x 7/8 Bolt	1
0381.0312			●		TM16 Ear Mount 8PV 3E 123 12V V 3/4 x 7/8 Bolt	1

● = Additional parts to standard kits.

FOREWORD

1. 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 manufacturers 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 vehicles ignition key and keep it with you.
- e Wear eye safeguards and to 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.

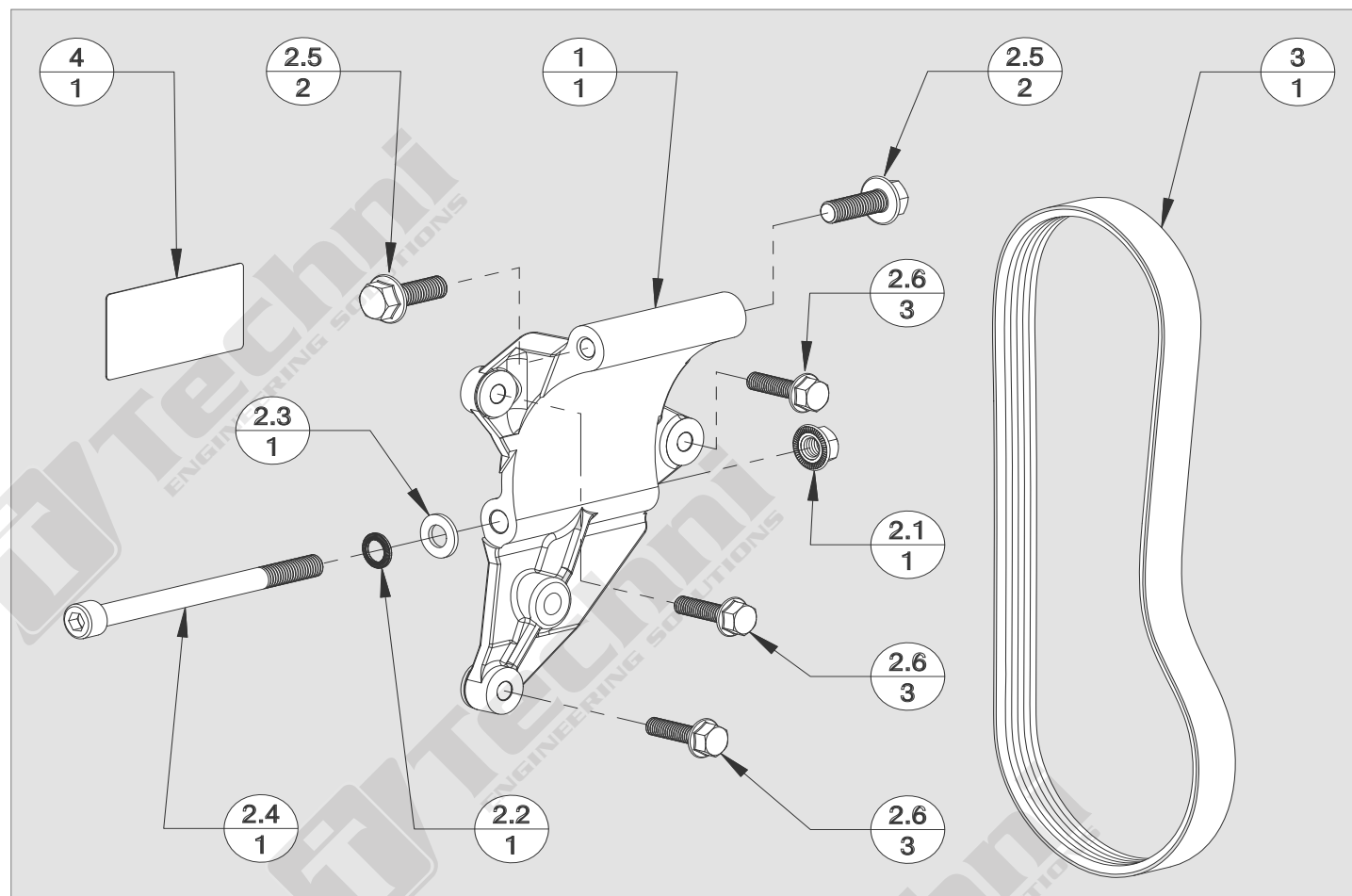
NB: This calls awareness to make the job easier or gives useful information.

STANDARD FASTENER TORQUE VALUES

1. 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.

STRENGTH	 4.8		 8.8		 10.9		 12.9	
	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

PARTS VIEW



ITEM	PART NO.	DESCRIPTION	QTY.	COMMENTS
1	0440.2783	Compressor Mount bracket	1	-
2	0290.3812	Fastener Pack - 0500.3812	1	Not Shown
2.1	2735.0071	Durlok Hexagon Flange Nut - M10 : 1.50	1	-
2.2	2809.0101	M10 Schnorr safety washer type 'S'	1	-
2.3	2809.0011	Washer M10 Flat DIN 125 - A 10.5	1	-
2.4	2705.0531	Hex Socket head cap screw - M10 x 130 : 1.50 - 12.9	1	-
2.5	2705.0491	Hex flange bolt Durlok - M10 x 30 : 1.50 - 12.9	2	-
2.6	2704.0091	Hex flange bolt Durlok - M8 x 30 : 1.25 - 12.9	3	-
3	0820.1301	Belt - Poly Groove 6PK 2300	1	-
4	2902.3812	Belt Label - 0500.3812	1	-
5	2901.3811	Installation instructions - 0500.3812	1	Not Shown

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.

Remove the following parts:

1. Remove and discard the original drive belt
2. Turn automatic tensioner **A** fully anti-clockwise using an appropriate spanner and lock using a suitable 4mm locking pin **B** (not supplied) - Fig.1
3. Loosen PAS hose nut **C** and twist hose **D** to position - Fig.2

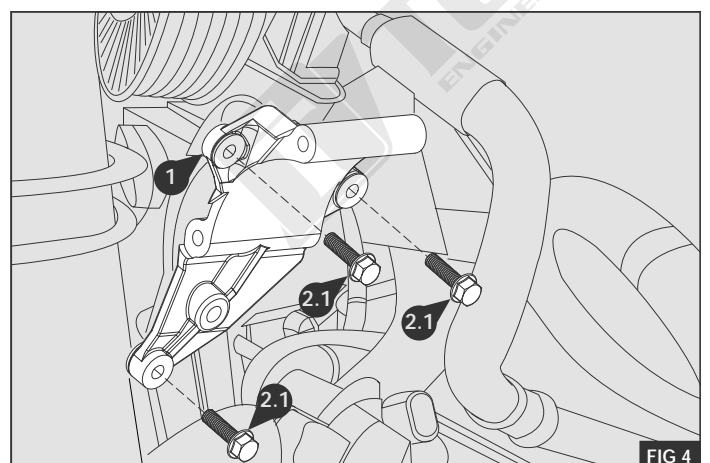
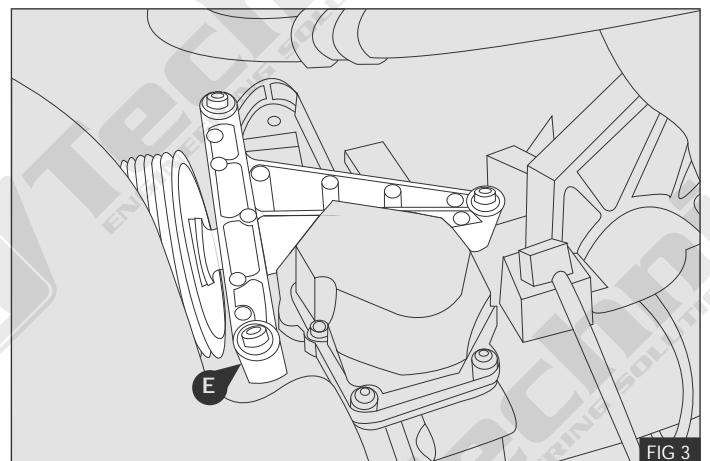
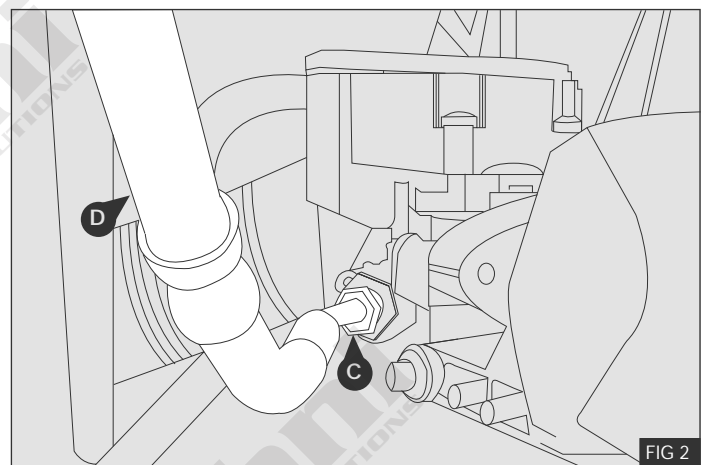
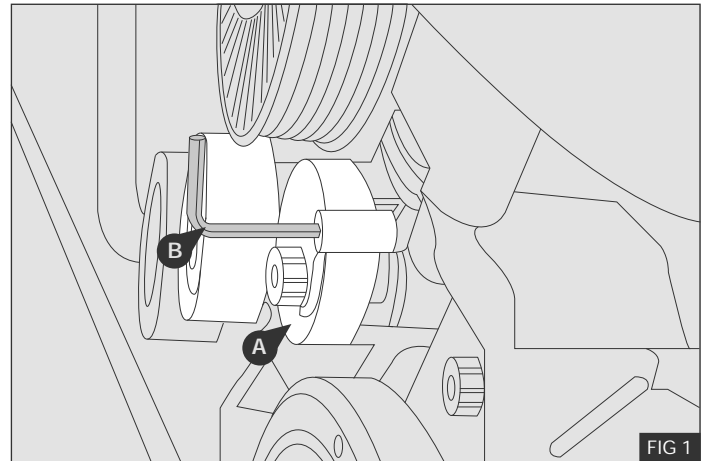
CAUTION: Do not fully undo PAS hose nut.

4. Re-tighten nut **C**
5. Remove & Discard the foolish pulley assembly **E** - Fig.3

MOUNT BRACKET INSTALLATION

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

1. Fit supplied compressor mount bracket **1** to the engine using bolts **2.1** - Fig.4
2. Torque bolts **2.1** to 44Nm / 32lb.ft.



COMPRESSOR INSTALLATION

1. Remove compressor ears **T** as shown opposite - Fig.5.

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

2. Fit the compressor to the compressor mount bracket **1** using bolts **2.2**, bolt **3** with spring washer **7**, flat washer **6** and nut **8** - Fig.6
3. Torque bolts **2.2** to 63 Nm / 46lb.ft.
4. Torque bolts **3** to 63 Nm / 46lb.ft.

#

DRIVE BELT

1. Fit the supplied drive belt **3** to the vehicle - Fig.8

Note: Make sure that the drive belt is fitted into the correct groove of the compressor clutch as shown - Fig.7

Seltec PV8 has the same gauge line as the Sanden PV6 & PV7, belt is fitted to front groove.

Sanden PV8 has a unique gauge line, belt is fitted to second groove.

- A. Power steering
- B. Compressor
- C. Crank pulley
- D. Tensioner
- E. Water pump
- F. Alternator
- G. Idle pulley

FINISH

1. Run the engine with the Compressor Clutch engaged for five minutes, check all components and fit belt label stickers

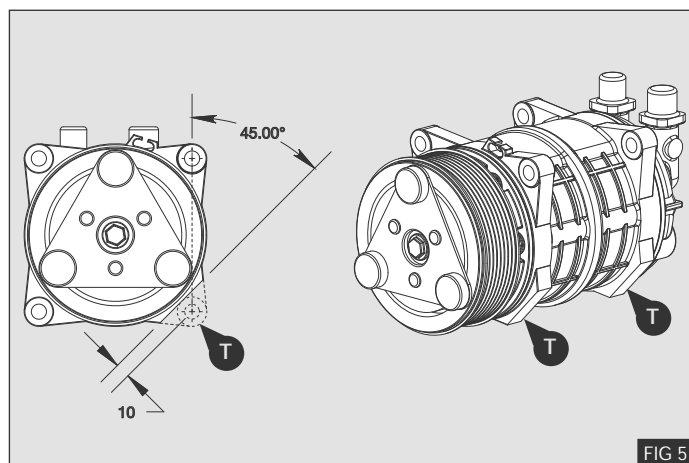


FIG 5

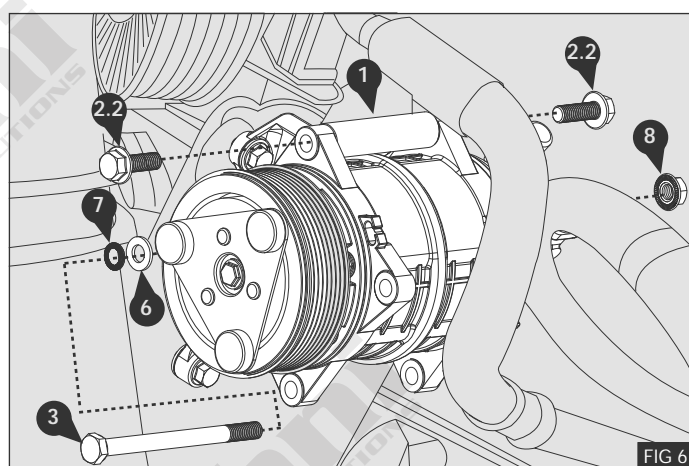


FIG 6

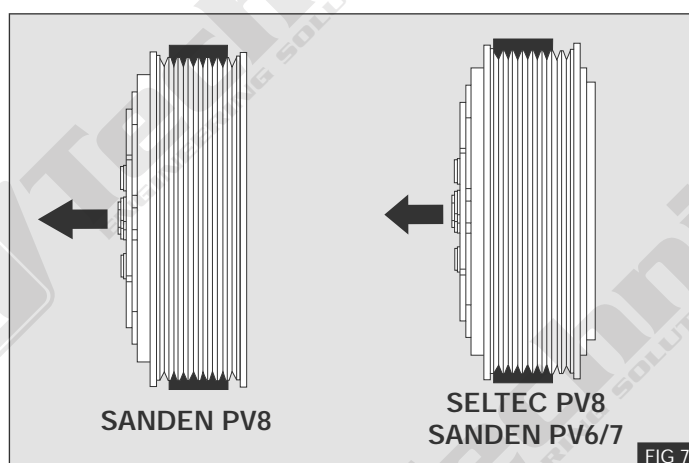


FIG 7

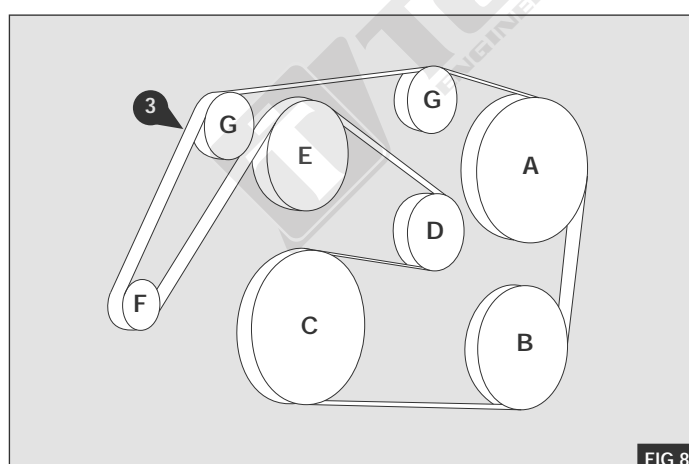


FIG 8

