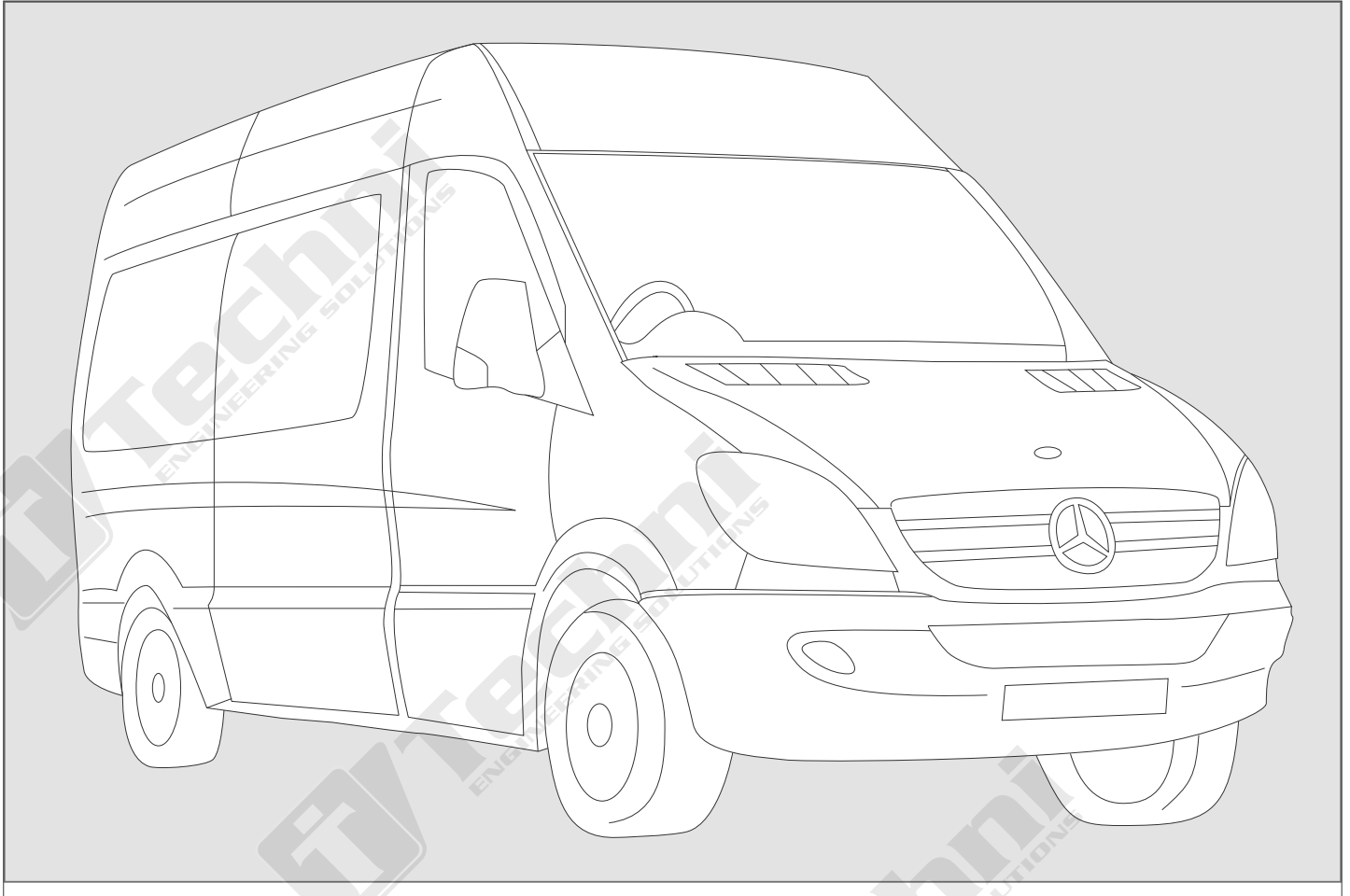


Einbauanleitung | Manuel d'instruction de montage | Manuale di istruzioni per l'installazione  
Manual de instrucciones de instalación montaje

Fitting  
Instruction  
Fitting  
Instruction  
Manual

# Contents

<b>ENGLISH</b> .....	2
Vehicle Details.....	2
Adapter Kit Details.....	2
Compatible Compressors .....	3
Compressor Kit Configurations .....	3
Foreward .....	4
Standard Fastener Torque Values.....	4
Parts View and List .....	5
Pre Installation .....	6
Compressor Bracket Installation .....	6
Compressor Installation .....	6
Drive Belt.....	7
Post Installation .....	7



**VEHICLE DETAILS**

Manufacturer	Mercedes Benz
Make	Sprinter
Model	210 CDi / 310 CDi / 510 CDi / 213 CDi 313 CDi / 413 CDi / 513 CDi / 216 CDi 316 CDi / 416 CDi / 516 CDi
Engine CC	2148
Engine Details	OM651
Year	2009>
Chassis Nos.	N/A
LHD	YES
RHD	YES
PAS	YES
A/C	NO
Voltage	12v

**ADAPTER KIT DETAILS**

Kit Part No.	0500.4062
Description	Speed Reduction Kit
Compressor RPM	3580 @ Max Engine
	Power Output
Fitting Time	40 Minutes
Suction Fitting	90°
Discharge Fitting	90°
Belt Type	6PK
Belt Part No.	0820.1311

## COMPATIBLE COMPRESSORS

SELTEC	TM-13 HS	TM15-HS	TM16-HS
Comp No	0381.0492	0381.0382	0831.1052
Seltec No.	-	48845033	-
Mounting	Ear	Ear	Ear
Rotor	1A	1A	1A
Armature	SL	SL	SL
Diameter	126	126	126
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	Mono	Mono

QUE	QP13-HD	QP15-HD	QP16-HD
Comp No	0391.0492	0391.0382	0391.1052
Que No.	-	-	-
Mounting	Ear	Ear	Ear
Rotor	1A	1A	1A
Armature	SL	SL	SL
Diameter	126	126	126
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	Mono	Mono

SANDEN	SD5H09	SD5H14	SD5H15
Comp No	-	-	-
Sanden No	-	-	-
Mounting	-	-	-
Rotor	-	-	-
Armature	-	-	-
Diameter	-	-	-
Voltage	-	-	-
Orientation	-	-	-
Fitting	-	-	-

Notes

## COMPRESSOR KIT CONFIGURATIONS

PART NUMBER	COMPRESSOR KIT PART NOS						DESCRIPTION	QTY.
	0513.4062	0515.4062	0516.4062	0593.4062	0595.4062	0596.4062		
0381.0492	●						TM13 Ear Mount 1A SL 126 12V V 3/4 x 7/8 Bolt	1
0381.0382		●					TM15 Ear Mount 1A SL 126 12V V 3/4 x 7/8 Mono	1
0381.1052			●				TM16 Ear Mount 1A SL 126 12V V 3/4 x 7/8 Mono	1
0391.0492				●			QP13 Ear Mount 1A SL 126 12V V 3/4 x 7/8 Bolt	1
0391.0382					●		QP15 Ear Mount 1A SL 126 12V V 3/4 x 7/8 Mono	1
0391.1052						●	QP16 Ear Mount 1A SL 126 12V V 3/4 x 7/8 Mono	1

● = Additional parts to standard kits.

## 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:**

- Inner and outer trim and body work
- Engine idle pace
- Check all the vehicle functions

**Check list:**

- Ensure that the right kit has been selected
- Before installing, check that all the correct pieces are present; also ensure that there are no missing or broken pieces
- When fitting, make sure the vehicle is properly protected against damage.

### Installation apparatus

- Calibrated torque wrench
- Hand service tools
- Protective covers and shields

### 2 PRECAUTIONS

- Detach the battery negative lead.
- Torque all bolts where stated using a calibrated torque wrench.
- Take extreme care with moving parts.
- Remove the vehicles ignition key and keep it with you.
- 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.

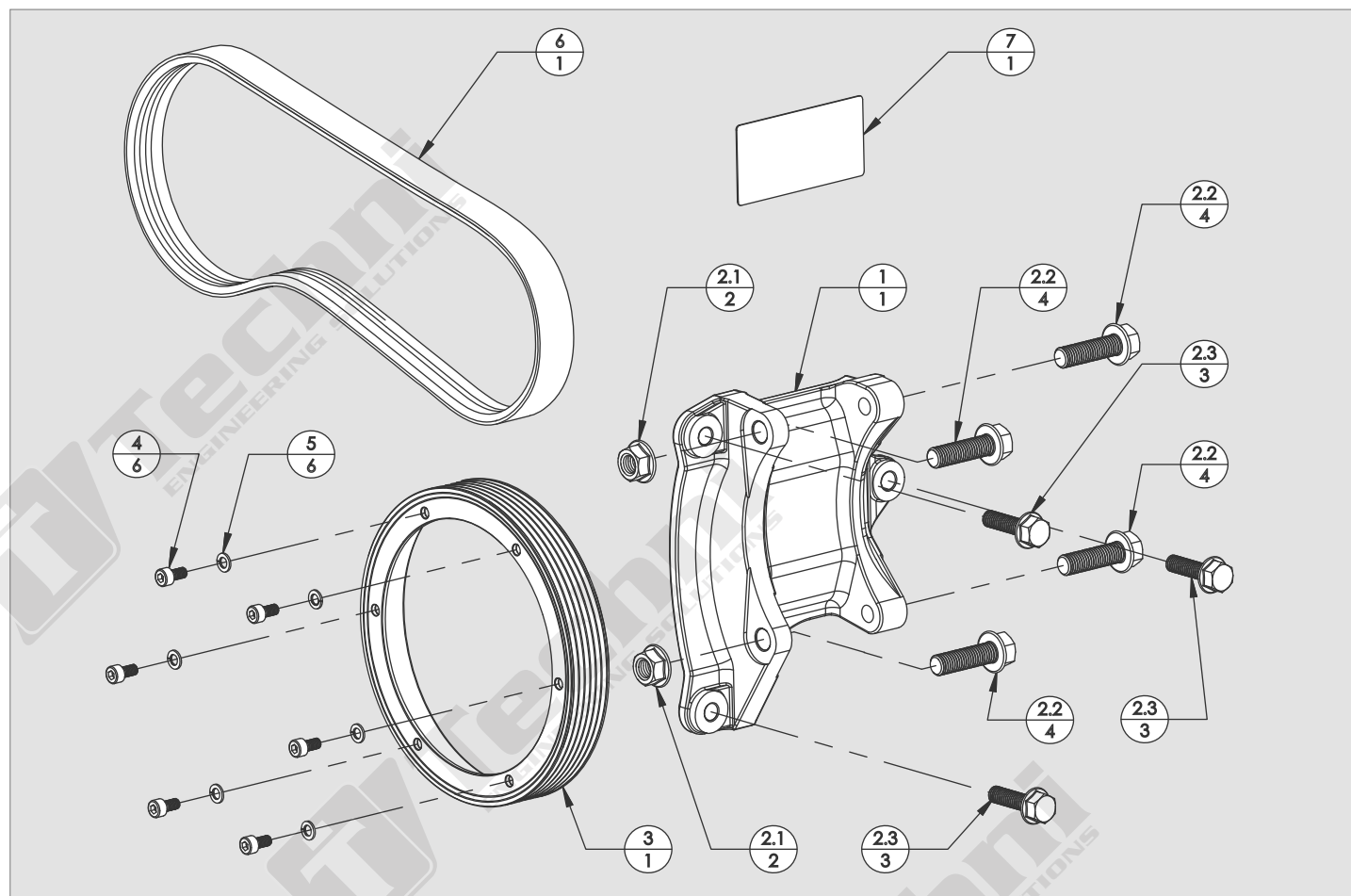
**NB:** This calls awareness to make the job easier or gives useful information.

## STANDARD FASTENER TORQUE VALUES

- 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								
	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



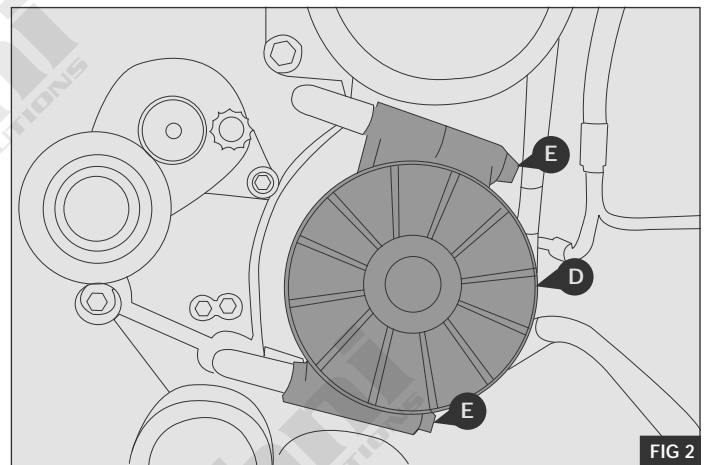
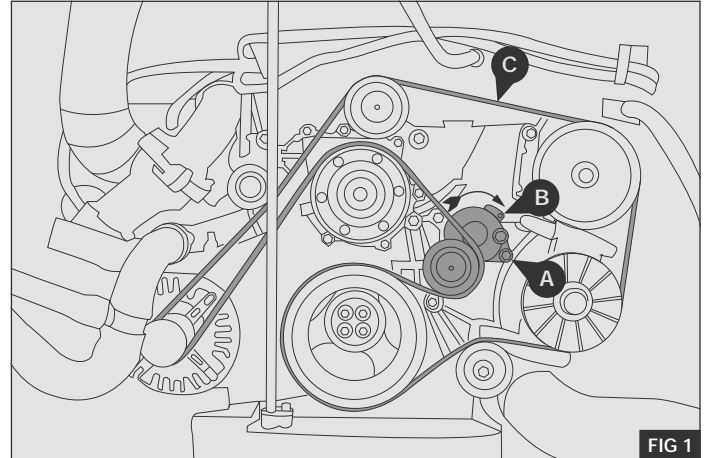
ITEM	PART NO.	DESCRIPTION	QTY.	COMMENTS
1	0440.3113	Compressor Mount bracket	1	-
2	0290.4022	Fastener Pack - 0500.4062	1	Not Shown
2.1	2735.0071	Durlok Hexagon Flange Nut - M10 : 1.50	2	-
2.2	2705.0241	Hex Flange Bolt Durlok - M10 x 35 : 1.50 - 12.9	4	-
2.3	2704.0091	Hex Flange Bolt Durlok - M8 x 30 : 1.25 - 12.9	3	-
3	0411.0213	Clutch Rotor - PV6 157 Dia - Seltec	1	-
4	2716.0031	Hex Socket Head Cap Screw - M5 x 10 - 0.80	6	Reference Only
5	2805.0031	Spring Washer M5 x 1 - ID 5.1 OD 9.2	6	Reference Only
6	0820.1311	Belt - Poly Groove 6PK 2325	1	-
7	2902.4062	Belt Label - 0500.4062	1	-

## 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:

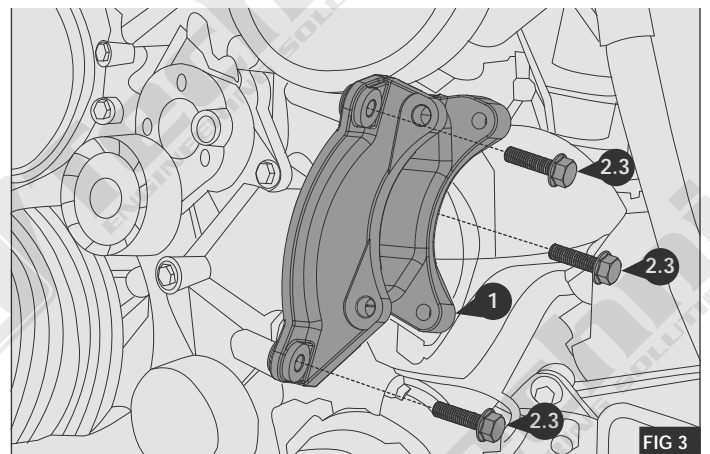
1. Using a suitable tool rotate the automatic belt tensioner pulley **A** clockwise and insert a suitable 4mm pin, an Allen key is ideal for this purpose **B** - Fig.1
2. Remove and discard the original manufacturers poly groove drive belt **C**, noting the original routing, if different from the diagram shown in Fig.6 report your findings to your Kit/System supplier before proceeding.
3. Remove and discard the original vehicle manufacturers mounting bracket assembly **D** that supports the idle pulley when the vehicle is not fitted with air conditioning, discard the 3 bolts **E**. If you are using this kit to adapt the original manufacturers compressor, remove the original compressor and any bracket before proceeding - Fig.2



## COMPRESSOR BRACKET INSTALLATION

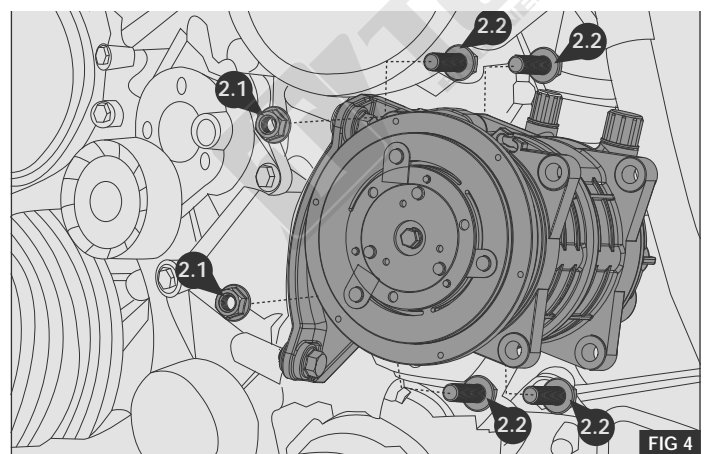
**NB:** Please refrain from using "Loctite" unless otherwise notified

1. Install the supplied compressor mount bracket **1** into the position previously taken by the original mounting bracket using bolts **2.3** M8 x 30 - Fig.3
2. Torque bolts **2.1** to 25Nm / 18lb.ft. using a calibrated torque wrench.



## COMPRESSOR INSTALLATION

1. Fit the compressor to the compressor mount bracket **1** Fixing it with the supplied bolts **2.2** M10 x 30 and nuts **2.1** - Fig.4
2. Torque the four bolts **2.2** to 50Nm / 37lb.ft. using a calibrated torque wrench.





1. Release the power steering pipe nut (F) and turn the pipe (G) to the position show to allow clearance for the compressor. - Fig.5
2. Fully tighten the power steering pipe nut previously released (F) be careful not to over tighten the nut.
3. Fit the supplied clutch rotor (3) to the compressor using 6 x M5 bolts (4), and 6 x M5 spring washers (5) - Fig 6.
4. Torque bolts (4) to 6Nm / 4.5lbf - Fig 6.

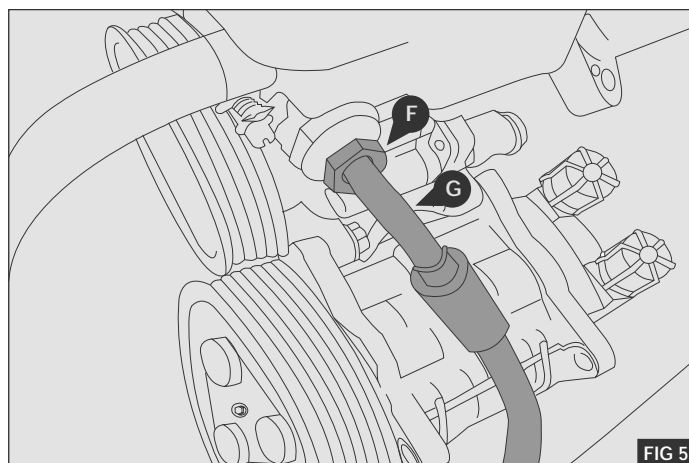


FIG 5

### DRIVE BELT

1. Fit the supplied replacement poly groove engine drive belt (3) to the engine in the same configuration in accordance with the original manufacturer's design - Fig.6

**CP** Crankshaft Pulley

**AT** Automatic Tensioner

**WP** Water Pump

**AL** Alternator

**IP** Idle Pulley

**PS** Power Steering

**RC** Refrigeration Compressor

2. Release the automatic belt tensioner (A) and remove the securing pin if fitted previously.

### 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 (7) on to a suitable location.

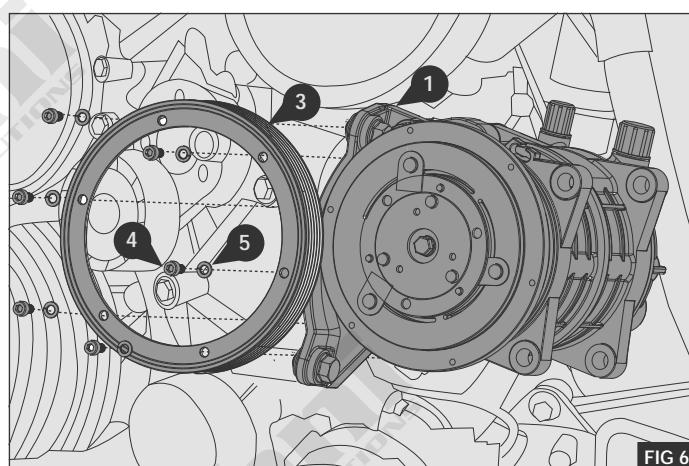


FIG 6

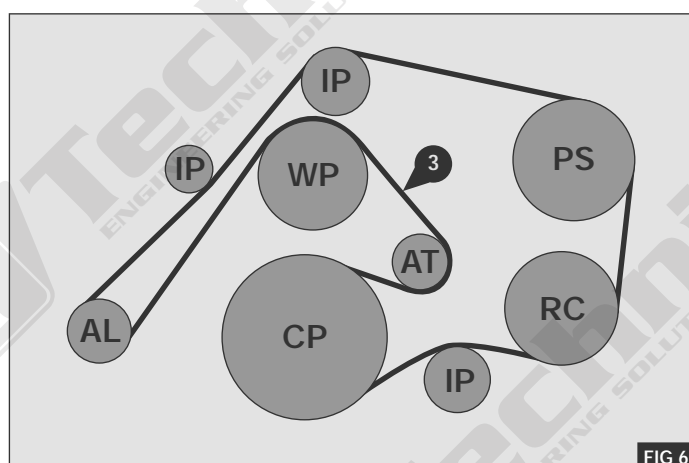


FIG 6



