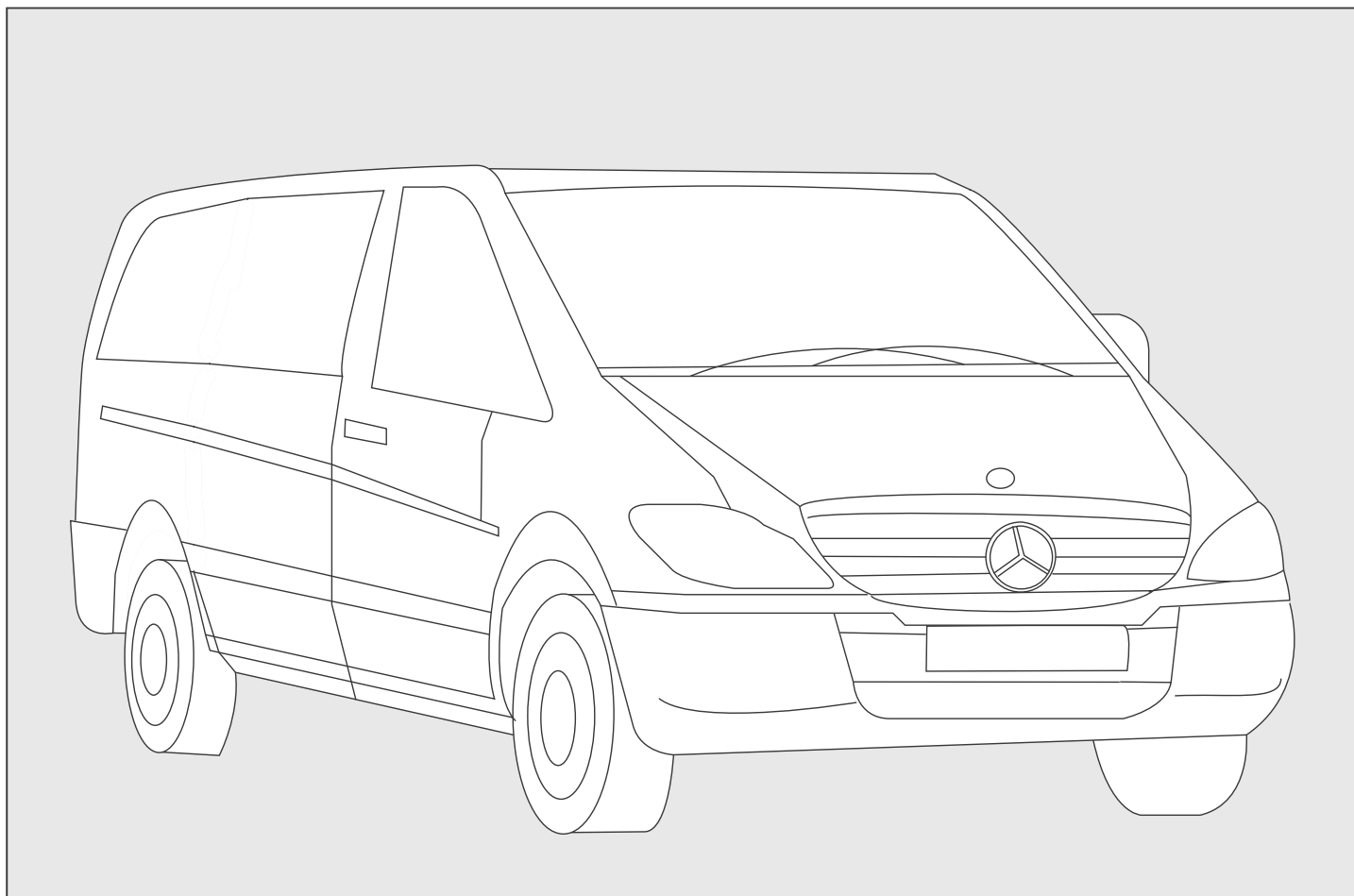


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## VEHICLE DETAILS

Manufacturer	Mercedes Benz
Make	Vito
Model	110 CDi / 113 CDi / 116 CDi
Engine CC	2143
Engine Details	95PS / 136PS / 163PS OM651 DE22LA
Year	11.2010>
Chassis Nos.	N/A
LHD	YES
RHD	YES
PAS	YES
A/C	NO
Voltage	12v

## ADAPTER KIT DETAILS

Kit Part No.	0500.8932
Description	Standard Kit
Compressor RPM	4695 @ Max Engine
	Power Output
Fitting Time	40 Minutes
Suction Fitting	90°
Discharge Fitting	90°
Belt Type	6PK 2280
Belt Part No.	0820.2251

## COMPATIBLE COMPRESSORS

SELTEC	TM-13 HS	TM15-HS	TM16-HS
Comp No	0381.0202	0381.0132	0831.1042
Seltec No.	48844120	48845121	48846121
Mounting	Ear	Ear	Ear
Rotor	8PV	8PV	8PV
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	Mono	Mono

QUE	QP13-HD	QP15-HD	QP16-HD
Comp No	0391.0202	0391.0132	0391.1042
Que No.	QP13.1302	QP15.1172	QP16.1196
Mounting	Ear	Ear	Ear
Rotor	8PV	8PV	8PV
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	Mono	Mono

SANDEN	SD5H09	SD5H14	SD7H15
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.
	0513.8932	0515.8932	0516.8932	0593.8932	0595.8932	0596.8932		
0381.0202	●						TM13 Ear Mount 8PV 3E 123 12V V 3/4 x 7/8 Bolt	1
0381.0132		●					TM15 Ear Mount 8PV 3E 123 12V V 3/4 x 7/8 Mono	1
0381.1042			●				TM16 Ear Mount 8PV 3E 123 12V V 3/4 x 7/8 Mono	1
0391.0202				●			QP13 Ear Mount 8PV 3E 123 12V V 3/4 x 7/8 Bolt	1
0391.0132					●		QP15 Ear Mount 8PV 3E 123 12V V 3/4 x 7/8 Mono	1
0391.1042						●	QP16 Ear Mount 8PV 3E 123 12V V 3/4 x 7/8 Mono	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 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 vehicles ignition key and keep it with you.
- e Wear eye safeguards 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.

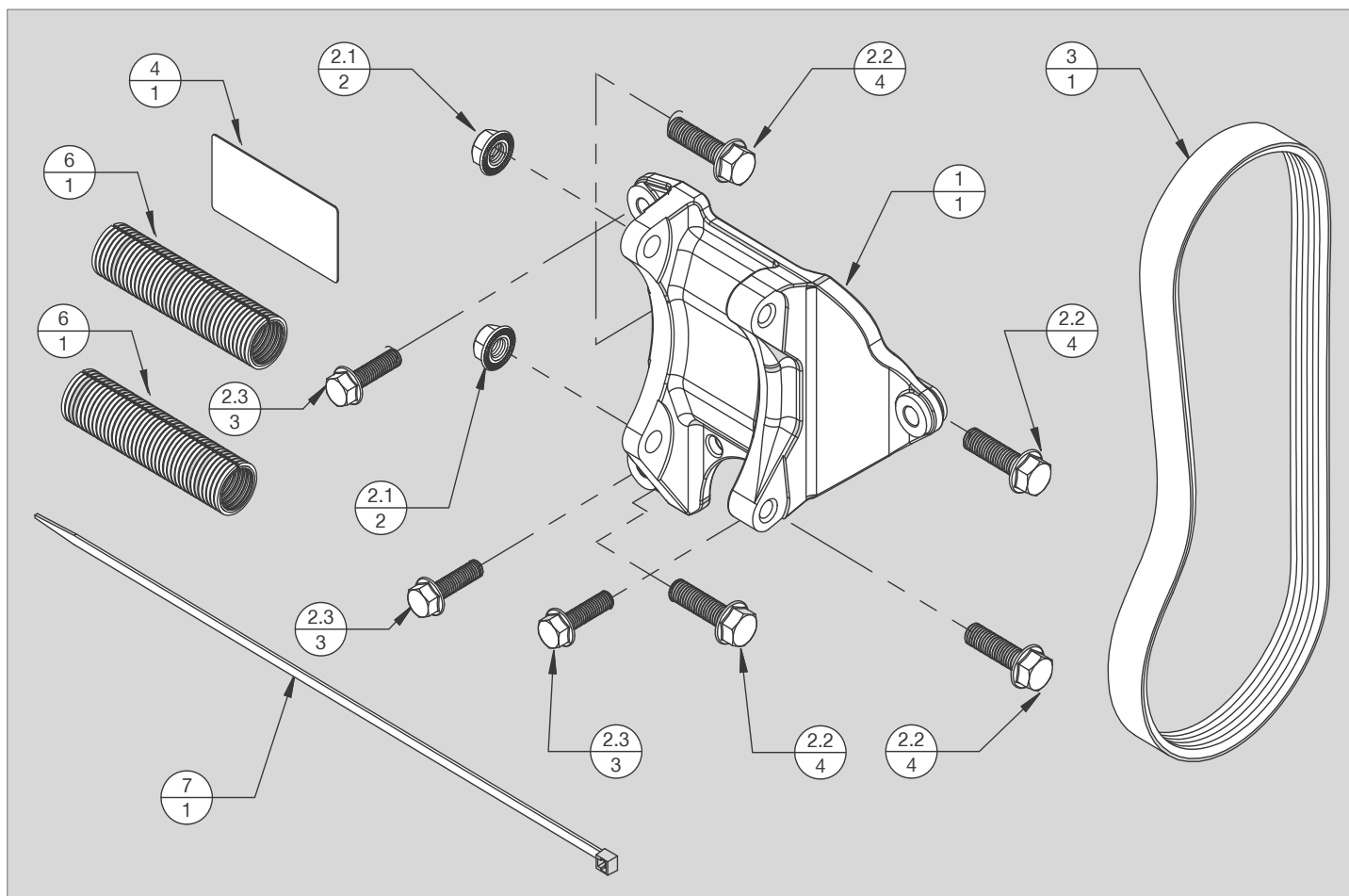
**NB:** This calls awareness to make the job easier or gives useful information.

## 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



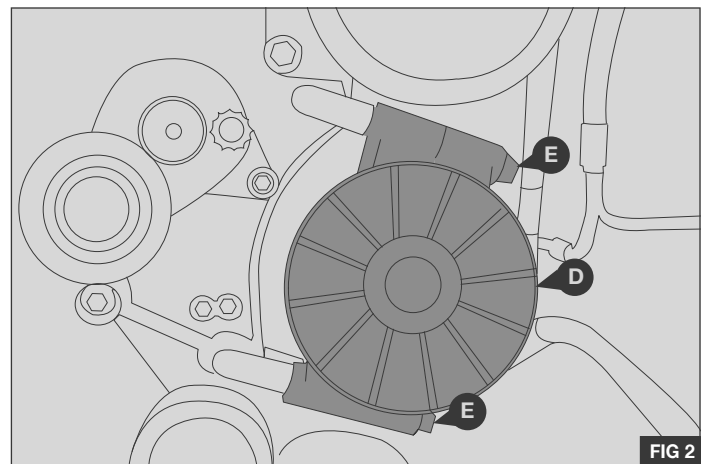
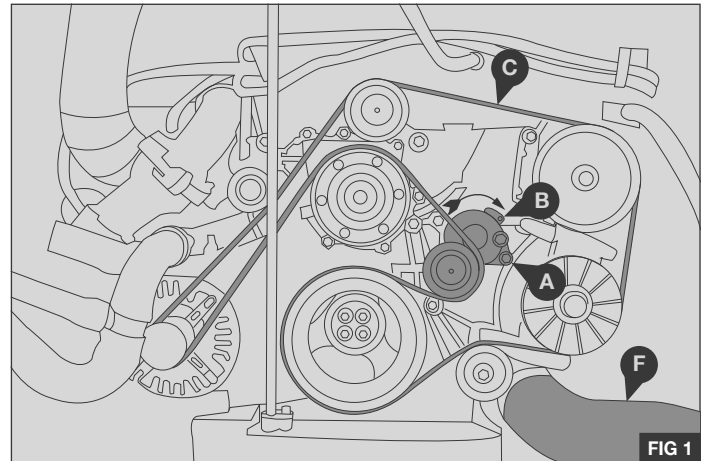
ITEM	PART NO.	DESCRIPTION	QTY.	COMMENTS
1	0440.3113	Compressor Mount Bracket	1	
2	0290.4022	Fastener Pack	1	Not Shown
2.1	2735.0071	Durlok Hexagon Flange Nut - M10 : 1.50	2	
2.2	2705.0241	Hex Flange Bolt Durlok - M10 x 30 : 1.50 - 12.9	4	
2.3	2704.0091	Hex Flange Bolt Durlok - M8 x 30 : 1.25 - 12.9	3	
3	0820.2551	Belt - Poly Groove 6PK 2280	1	
4	2902.4022	Belt Label - 0500.8932	1	
5	2901.4021	Installation Instructions - 0500.8932	1	Not Shown
6	1430.0042	20 MM Split Sleeveing	2	
7	2763.0051	Cable Tie	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:

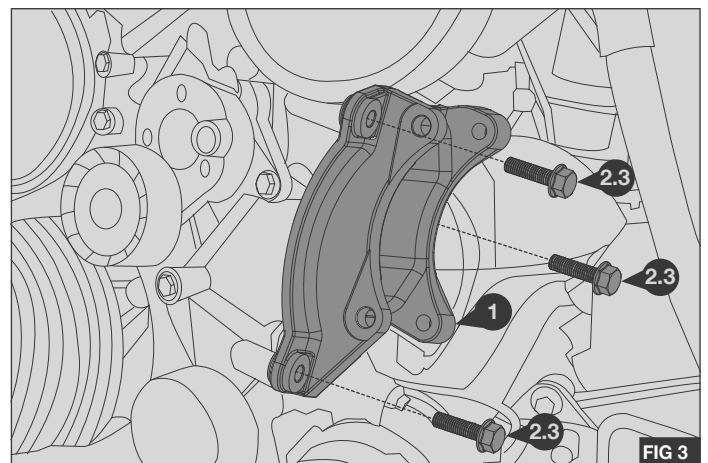
1. Remove the intercooler hose (F) - Fig.1
2. Using a suitable tool rotate the automatic belt tensioner pulley (A) clockwise and insert a suitable 4mm pin, an Allen key is ideal for this purpose (B) - Fig.1
3. Remove and discard the original manufacturers poly groove drive belt (C), noting the original routing, if different from the diagram shown in Fig.6 report your findings to your Kit/System supplier before proceeding.
4. Remove and discard the original vehicle manufacturers mounting bracket assembly (D) that supports the idle pulley and discard the 3 securing bolts (E) - Fig.2



## COMPRESSOR BRACKET INSTALLATION

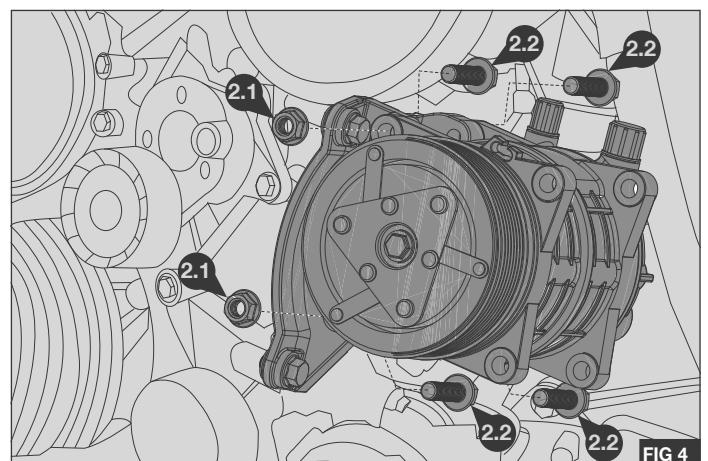
**NB:** Please refrain from using “Loctite” unless otherwise notified

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 shown to allow clearance for the compressor. - Fig.5
2. Fully tighten the power steering pipe nut previously released (F) be careful not to overtighten the nut.
3. Fit the supplied protective sleeve (6) in position shown on the PAS pipe - Fig.5
4. Fit the supplied protective sleeve (6) in position shown on pipe (H) and secure away from moving parts with the supplied cable tie (7) - Fig.6
5. Refit the intercooler hose (F) - Fig.1

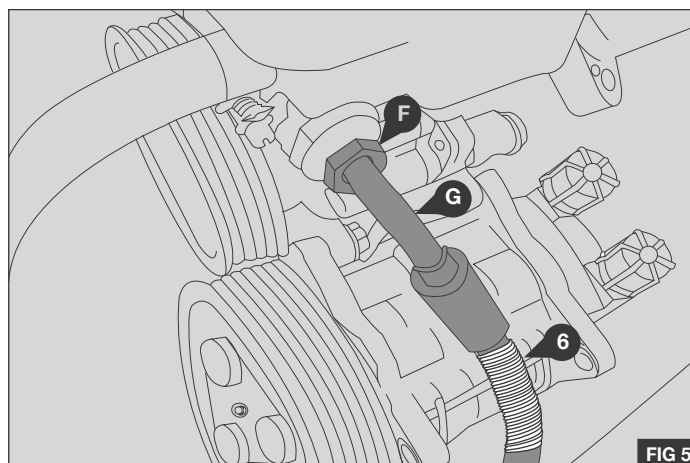


FIG 5

## 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 manufacturers design - Fig.7

**CP** Crankshaft Pulley

**AT** Automatic Tensioner

**WP** Water Pump

**AL** Alternator

**IP** Idle Pulley

**PS** Power Steering

**RC** Refrigeration Compressor

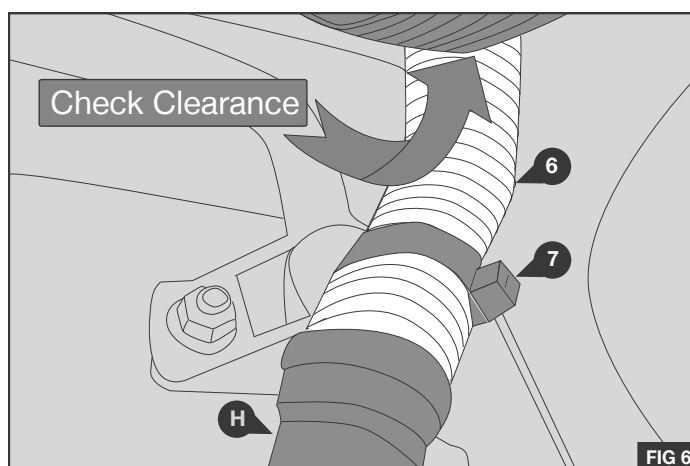


FIG 6

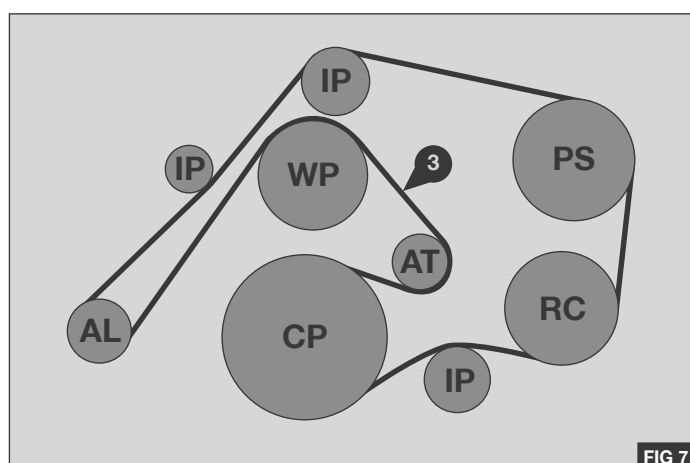


FIG 7

**NB:** Where applicable and dependent on the compressor model, align the supplied drive belt by installing in the correct clutch groove - Fig.8 Seltec PV8 has the same gauge line (46.55) as the Sanden PV6 & PV7, belt is fitted to front groove.

Sanden PV8 has a unique gauge line (50.11) in most cases, belt is fitted to second groove. If in any doubt, please check with your compressor supplier

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 (4) on to a suitable location.

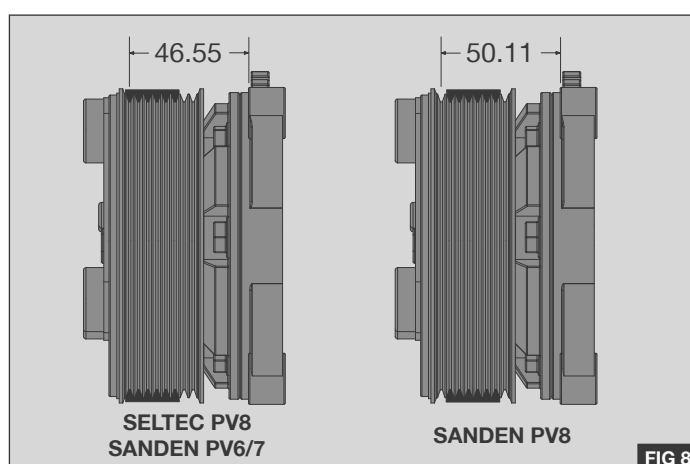


FIG 8

**Notes**