

MERCEDES BENZ SPRINTER

**210 CDI / 310 CDI / 510 CDI / 213 CDI 313 CDI /
413 CDI / 513 CDI / 216 CDI 316 CDI / 416 CDI / 516 CDI**

CODE / CODICE: 0500.4022
COMPRESSOR / COMPRESSEUR /
KOMPRESSOR / COMPRESSORE /
COMPRESOR :

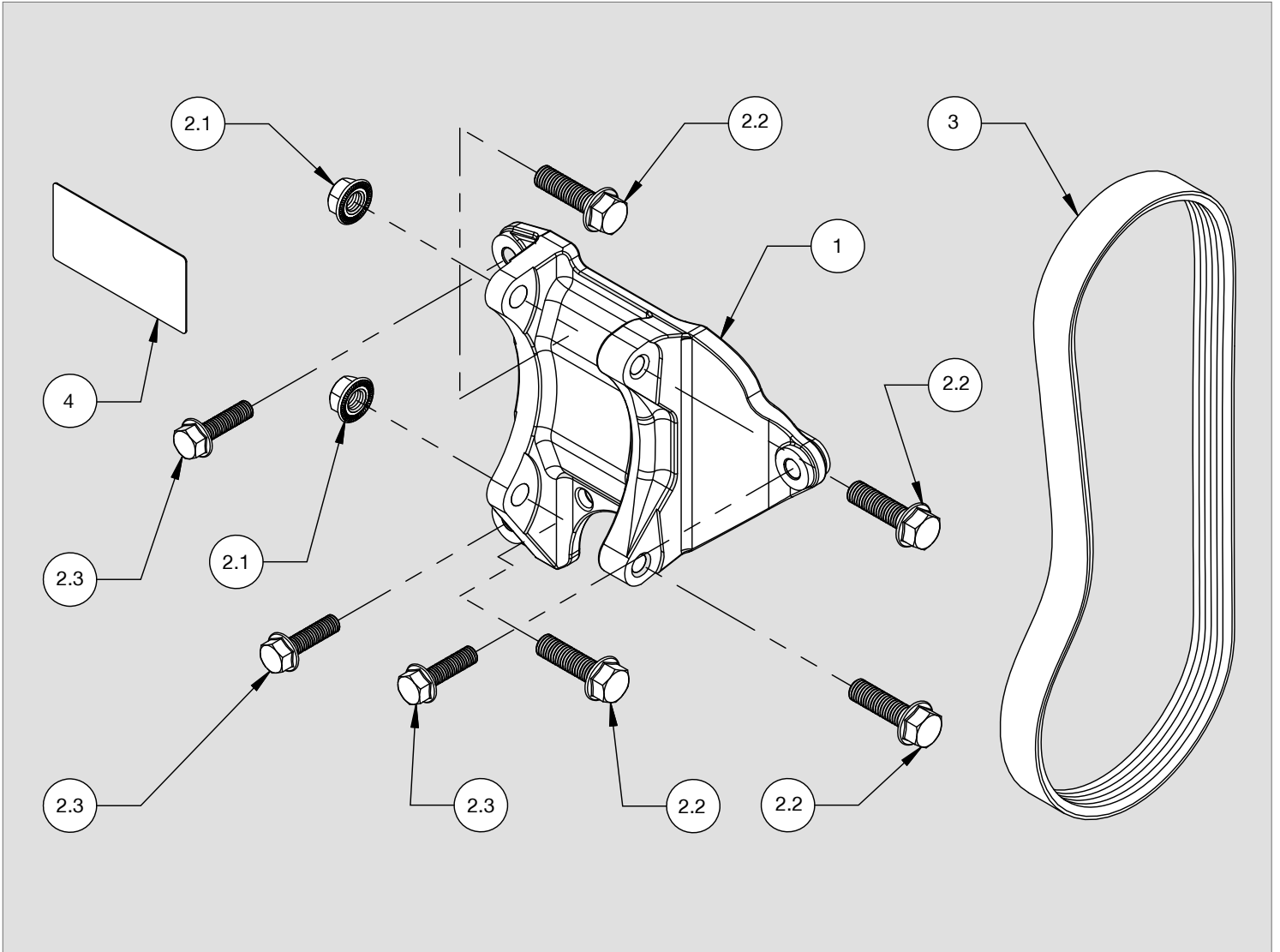
SELTEC: TM13 / 15 / 16
QUE: QP13 / 15 / 16
SANDEN: SD5H14 / SD7H15

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	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 35 : 1.50 - 12.9	4	
2.3	2704.0091	Hex Flange Bolt Durlok - M8 x 30 : 1.25 - 12.9	3	
3	0820.8041	Belt - Poly Groove 6PK 2270	1	
4	2902.4022	Belt Label - 0500.4022	1	
5	2901.4021	Installation Instructions - 0500.4022	1	Not Shown

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

SELTEC	TM-13 HS	TM15-HS	TM16-HS
Comp No	0381.0202	0381.0132	0831.1042
Valeo No.	48844120	48845121	48846121
Mounting	Ear	Ear	Ear
Rotor	8PV	8PV	8PV
GL	-	-	-
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
GL	-	-	-
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	-	SD5H14	SD5H15
Comp No	-	0300.0461	0300.2001
Sanden No.	-	6629	8026
Mounting	-	Ear	Ear
Rotor	-	7PV	6PV
GL	-	-	-
Armature	-	SL	SL
Diameter	-	124	125
Voltage	-	12	12
Orientation	-	V	V
Fitting	-	3/4 x 7/8	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.

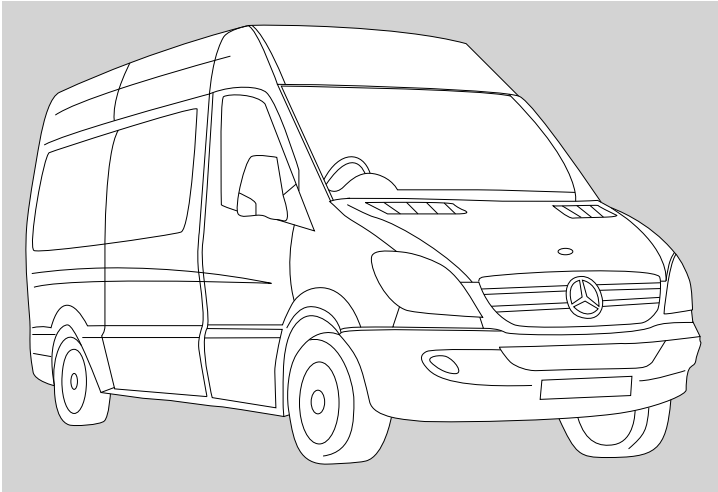
VALORI STANDARD DI SERRAGGIO PER DISPOSITIVI DI FISSAGGIO

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	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	10.2009>10.2013
Chassis Nos.	N/A
LHD	YES
RHD	YES
PAS	YES
A/C	NO
Voltage	12v

KIT DETAILS

Kit Part No.	0500.4022
Description	Standard Kit
Compressor RPM	4694 @ Max Engine Power Output
Fitting Time	40 Minutes
Suction Fitting	90°
Discharge Fitting	90°
Belt Type	6PK 2270
Belt Part No.	0820.8041

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.

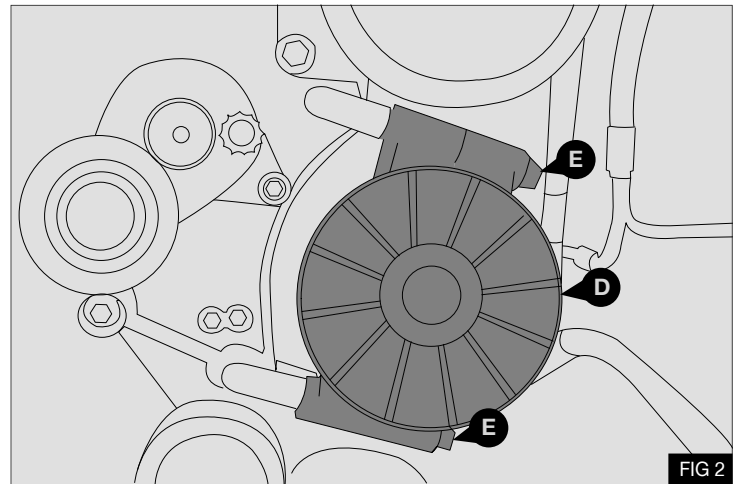
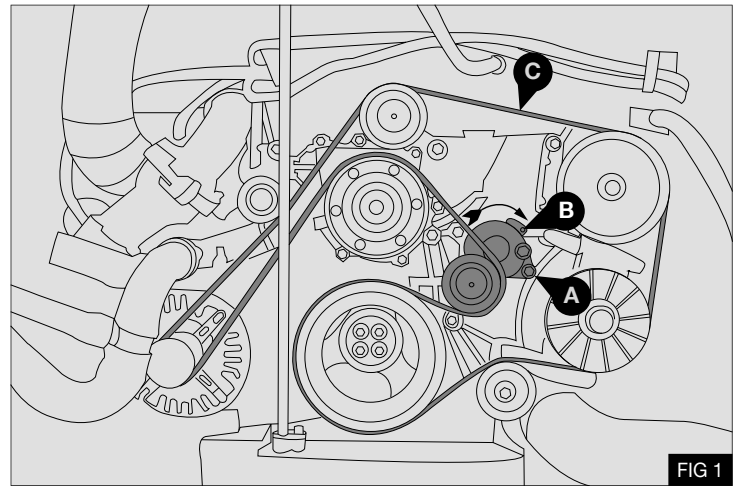
NB: This calls awareness to make the job easier or gives useful information.

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.

Dismantle the following:

- 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
- 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.
- 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

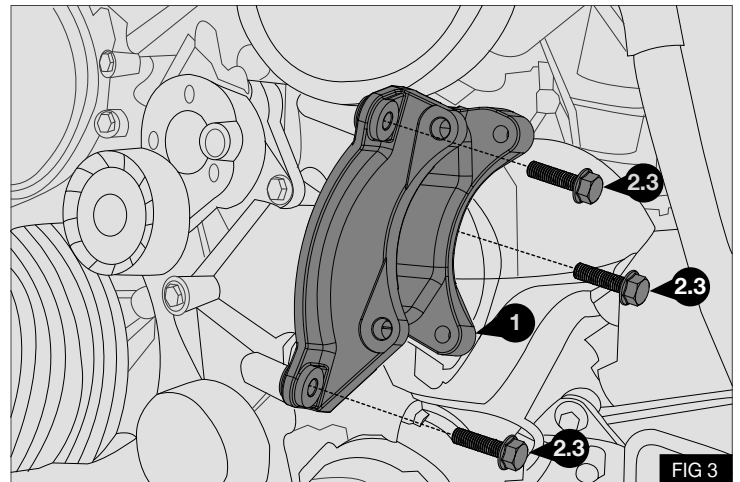


COMPRESSOR BRACKET INSTALLATION

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

- 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

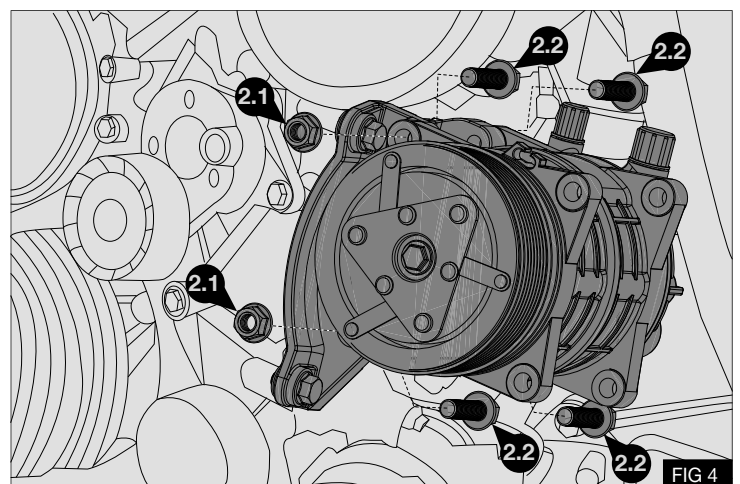
Torque bolts **2.3** to 25Nm / 18lb.ft. using a calibrated torque wrench.



COMPRESSOR INSTALLATION

- Fit the compressor to the compressor mount bracket **1** Fixing it with the supplied bolts **2.2** M10 x 35 and nuts **2.1** - Fig 4

Torque the four bolts **2.2** to 50Nm / 37lb.ft. using a calibrated torque wrench.



2. Release the power steering pipe nut (F) and turn the pipe (G) to the position show to allow clearance for the compressor. - Fig 5
3. Fully tighten the power steering pipe nut previously released (F) be careful not to overtighten the nut.

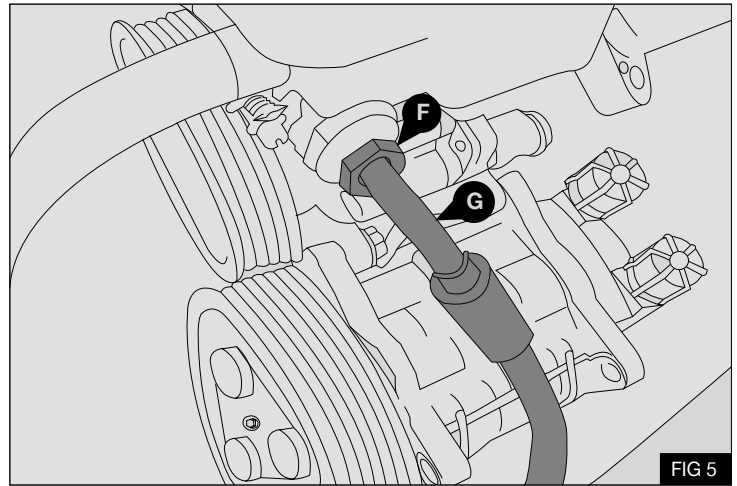


FIG 5

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 6

CP Crankshaft Pulley
AT Automatic Tensioner
WP Water Pump
AL Alternator
IP Idle Pulley
PS Power Steering
RC Refrigeration Compressor

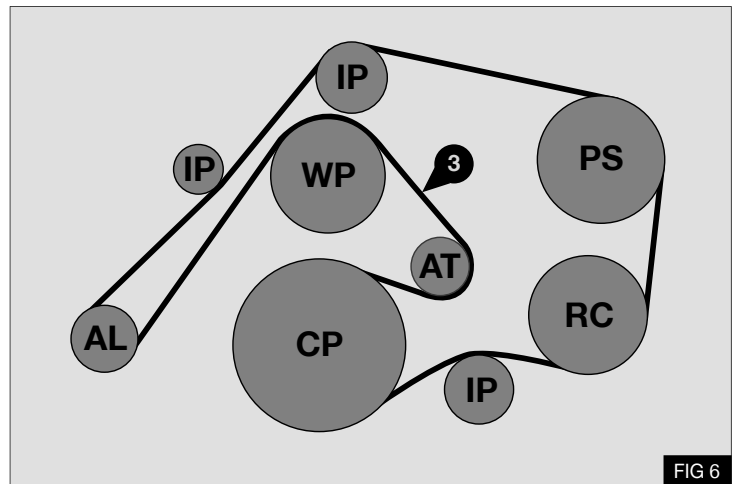


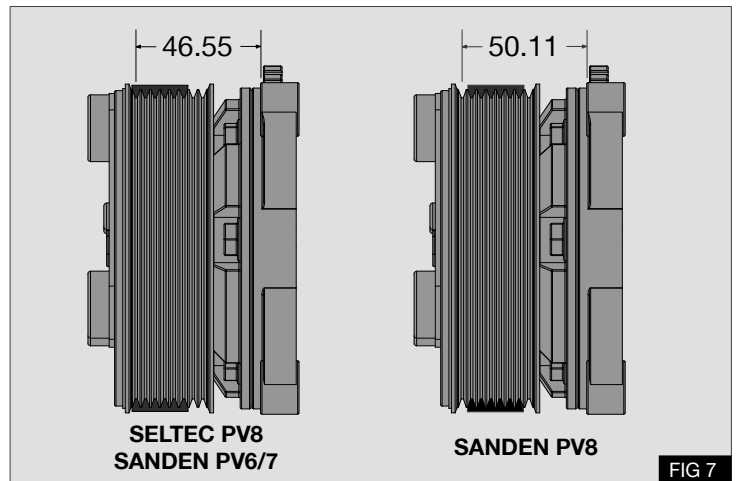
FIG 6

NB: Where applicable and dependent, on the compressor model, align the supplied drive belt by installing in the correct clutch groove - Fig.7

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.



SELTEC PV8
SANDEN PV6/7

SANDEN PV8

FIG 7

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.

(EN)

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