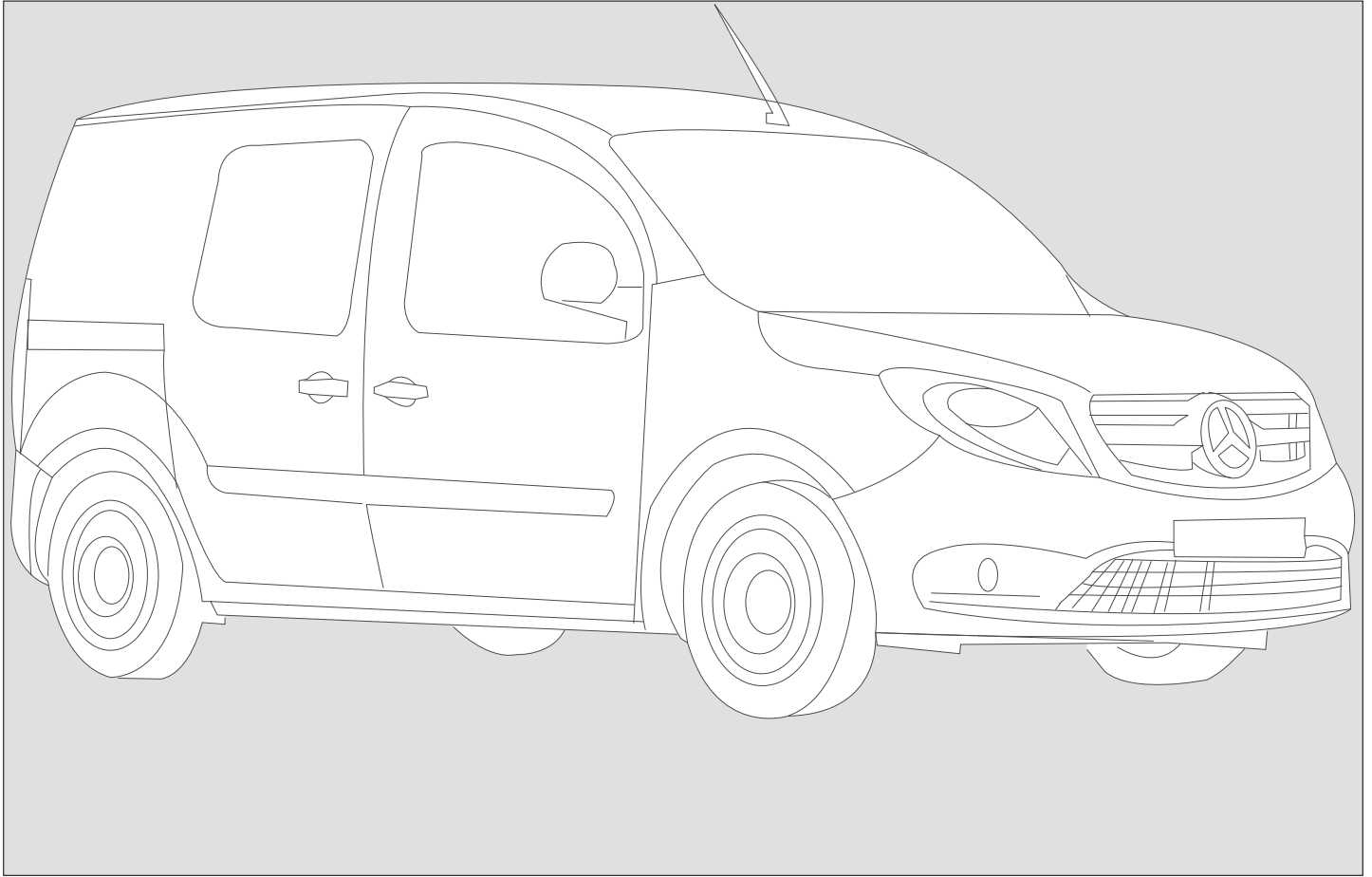


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VEHICLE DETAILS

Manufacturer	Mercedes
Make	Citan
Model	108, 109, 111 CDI
Engine CC	1461 CC
Engine Details	OM 607 DE15LA
Year	01.2013 >
Chassis Nos.	N/A
LHD	YES
RHD	YES
PAS	YES
A/C	NO
Voltage	12v

KIT DETAILS

Kit Part No.	0500.6992
Description	Standard Kit
Compressor RPM	4800 @ Max Engine
	Power Output
Fitting Time	120 Minutes
Suction Fitting	45°
Discharge Fitting	45°
Belt Type	6PK1185
Belt Part No.	0820.5671

RECOMMENDED COMPRESSORS

SELTEC	TM-13 HS	TM15-HS	TM16-HS
Comp No	-	0385.5241	-
Seltec No.	-	-	-
Mounting	-	Direct	-
Rotor	-	6PV	-
Armature	-	SL	-
Diameter	-	123	-
Voltage	-	12	-
Orientation	-	V	-
Fitting	-	3/4 x 7/8	-
Manifold	-	Bolt	-

QUE	QP13-HD	QP15-HD	QP16-HD
Comp No	-	0395.5241	-
Que No.	-	-	-
Mounting	-	Direct	-
Rotor	-	6PV	-
Armature	-	SL	-
Diameter	-	123	-
Voltage	-	12	-
Orientation	-	V	-
Fitting	-	3/4 x 7/8	-
Manifold	-	Bolt	-

SANDEN	SD5H09	SD5H14	SD7H15
Comp No	-	-	-
Sanden No.	-	-	-
Mounting	-	-	-
Rotor	-	-	-
Armature	-	-	-
Diameter	-	-	-
Voltage	-	-	-
Orientation	-	-	-
Fitting	-	-	-

Notes

COMPRESSOR KIT CONFIGURATIONS

PART NUMBER	COMPRESSOR KIT PART NOS				DESCRIPTION	QTY
	0515.6992	0595.6992	,	,		
0385.5241	●				TM15 Direct Mount 6PV 123 SL 12V V 3/4 x 7/8 Bolt	1
0395.5241		●			QP15 Direct Mount 6PV 123 SL 12V V 3/4 x 7/8 Bolt	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 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.

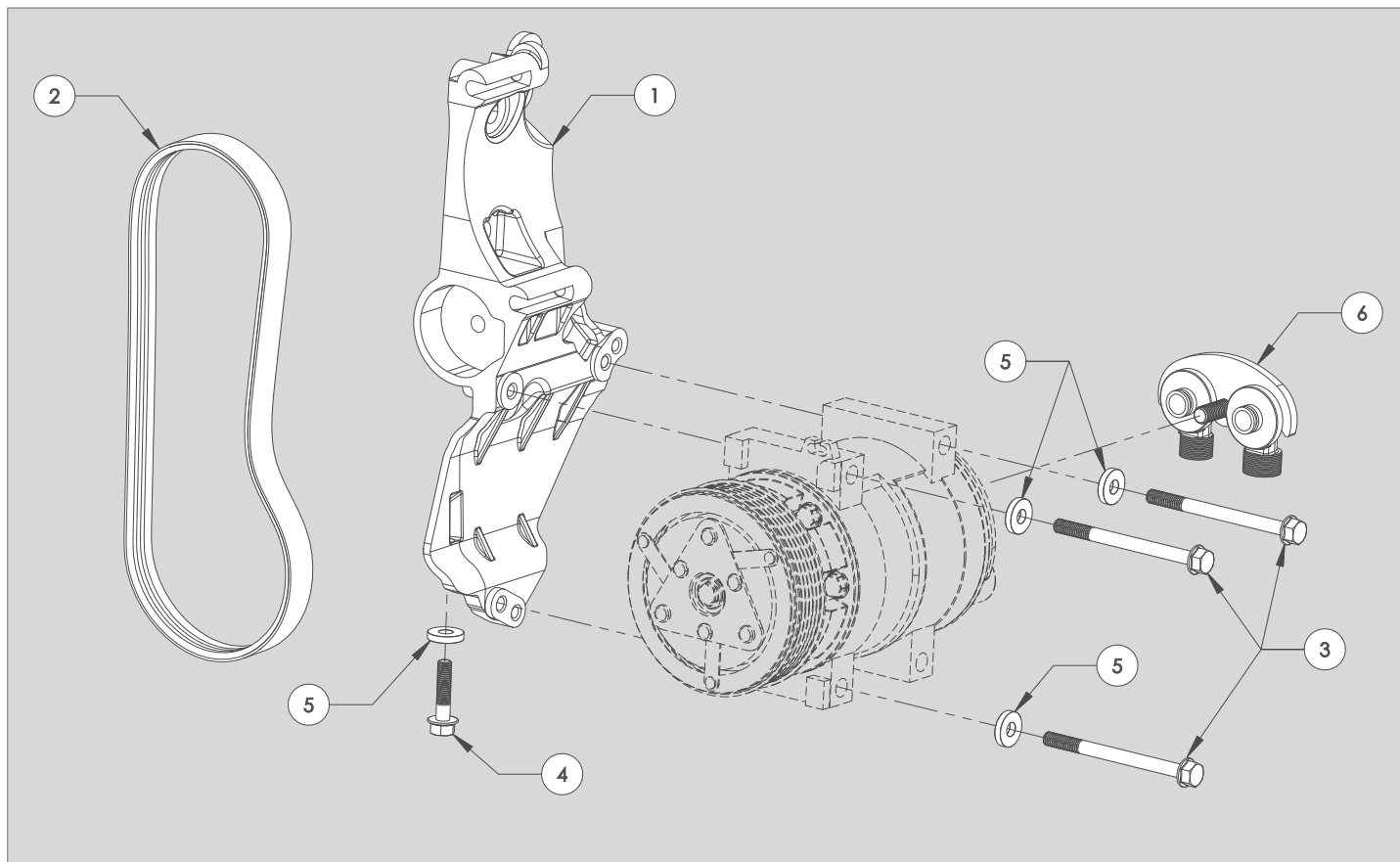
NB: This calls awareness to make the job easier or gives useful information.

STANDARD FASTENER TORQUE VALUES

- 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















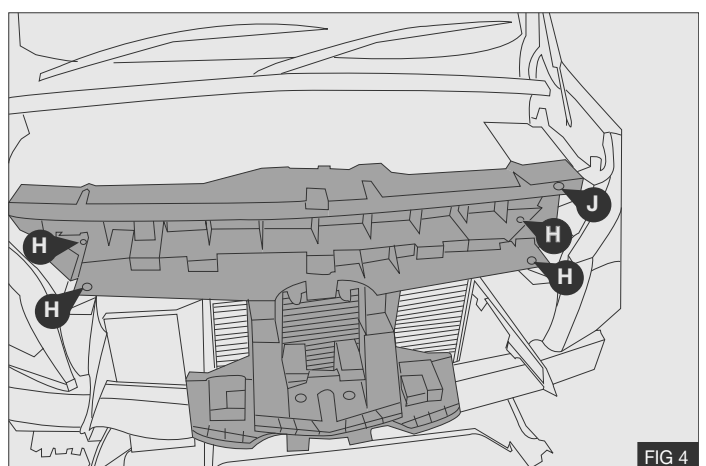
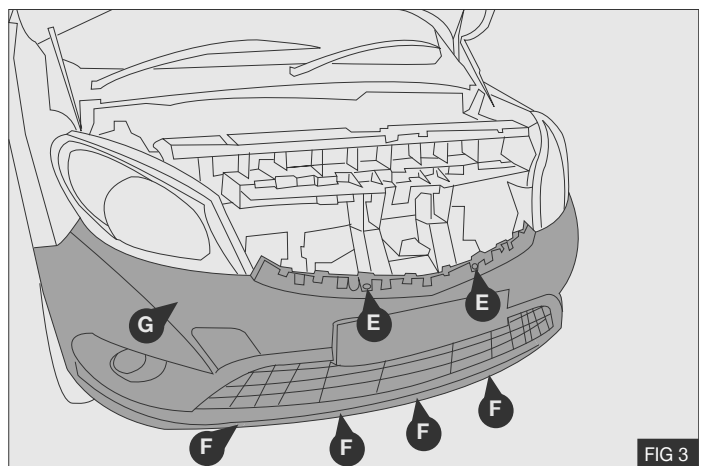
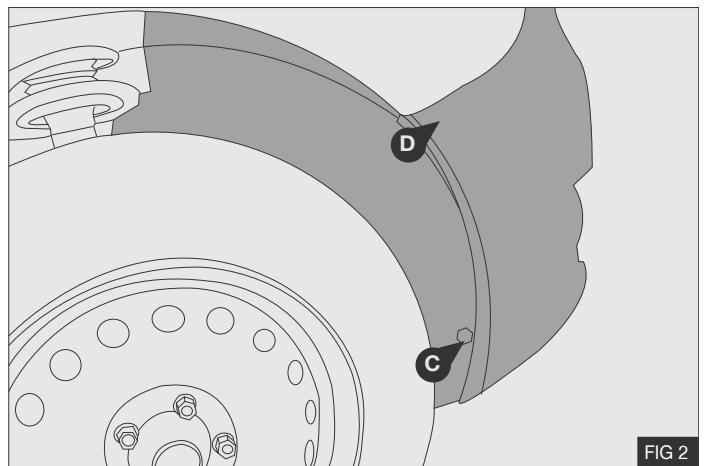
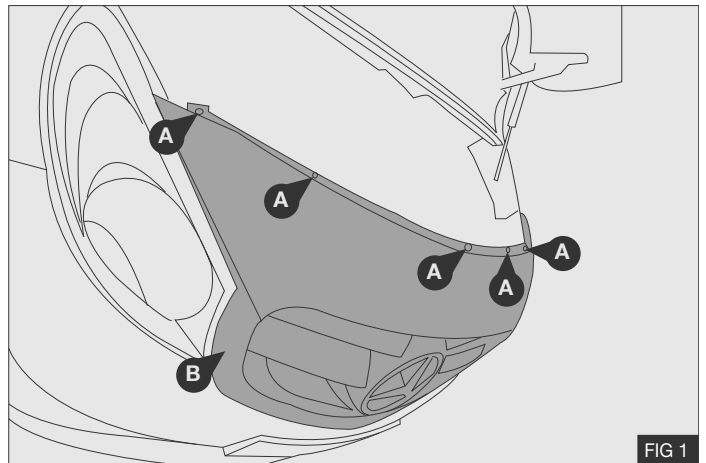
ITEM	PART NO.	DESCRIPTION	QTY.	COMMENTS
1	0440.5271	Mount Bracket	1	-
2	0820.5671	Belt - Poly Groove 6PK 1185	1	-
3	2704.5361	Hex flange bolt - M8 x 100 : 1.25 - 8.8	3	-
4	2704.1021	Hex flange bolt - M8 x 35 : 1.25 - 10.9	1	-
5	2808.5001	Washer M8 Flat DIN 7349 OD21 x ID8.4 x L4	4	-
6	0425.0521	Manifold Assembly Adjustable 3/4 x 7/8	1	-

PRE-INSTALLATION

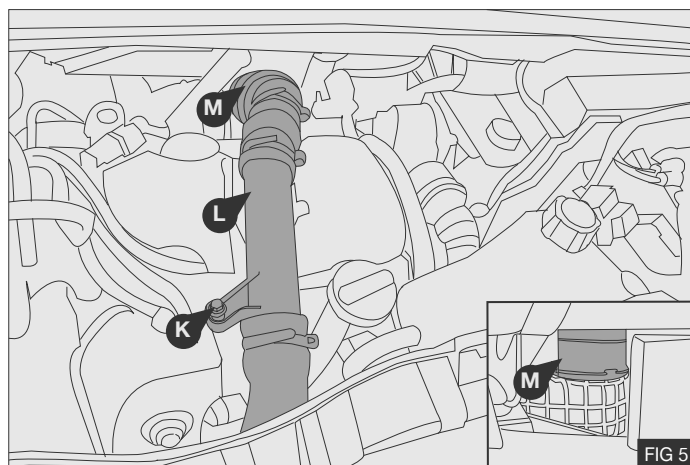
N.B Before proceeding please read the installation precautions. The letters on drawings relate to text, numbers circled relate to the parts list in this manual.

INSTALLATION

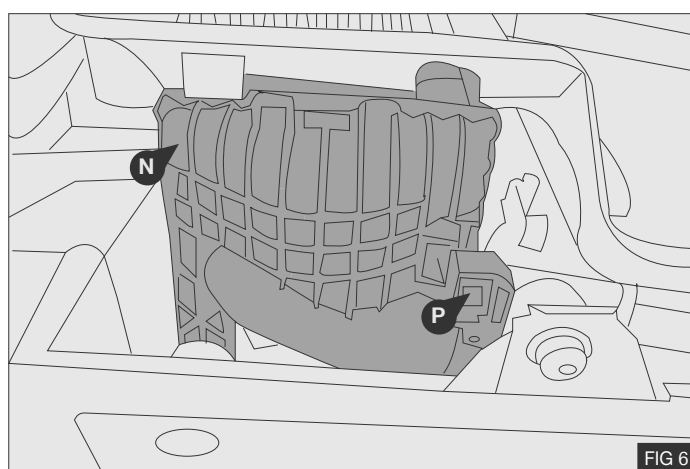
1. Remove the five screws  from the top of the grill, remove radiator grill  – Fig 1
2. Remove the fastener indicated  from both front wheel arch liners. Remove the M6 screw securing the front bumper at position  behind the wheel arch liner on both sides of the vehicle – Fig 2
3. Remove 2x fasteners  from the top of the bumper , Remove the 4x fasteners  securing the bumper  to the cross member under the vehicle. Remove the bumper  – Fig 3
4. Remove the 4x fasteners  securing the grill support panel  to the vehicle. Remove the grill support panel  – Fig 4



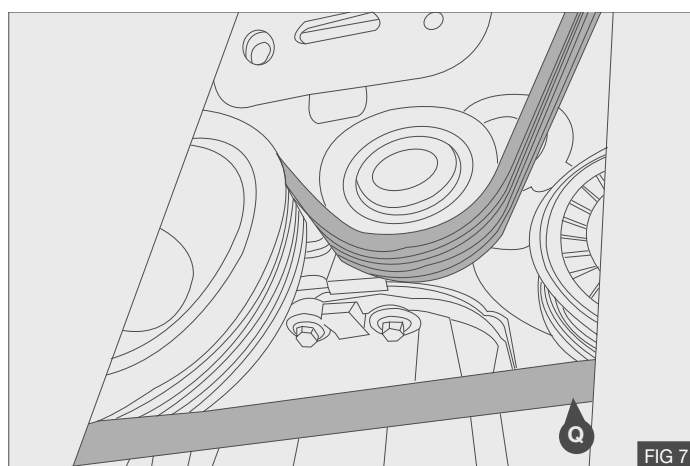
5. Remove the bolt (K) from the intercooler hose (L). Disconnect the intercooler hose (L) at positions (M) and remove from the vehicle – Fig 5





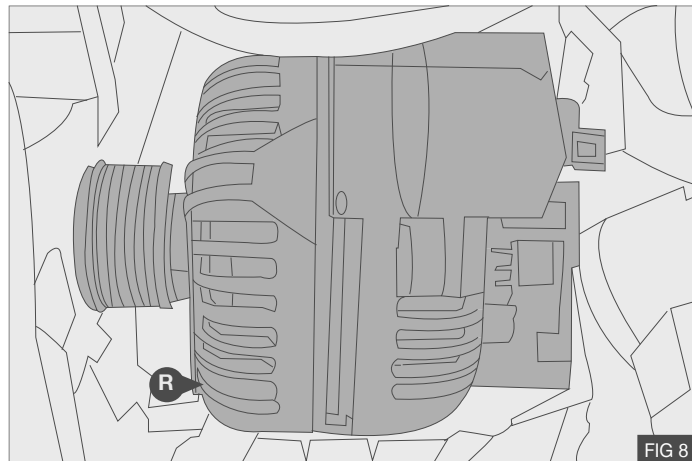
6. Unclip the bottom of the intercooler (N) at position (P) and slide the intercooler upwards and off the vehicle – Fig 6








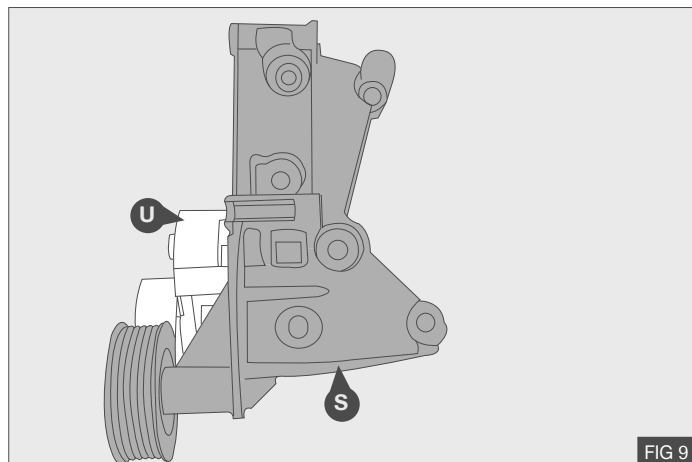
7. Remove and discard the original drive belt (Q) – Fig 7



8. Disconnect the wiring from the alternator  and remove the alternator  from the vehicle, retain the original fixing bolts – Fig 8










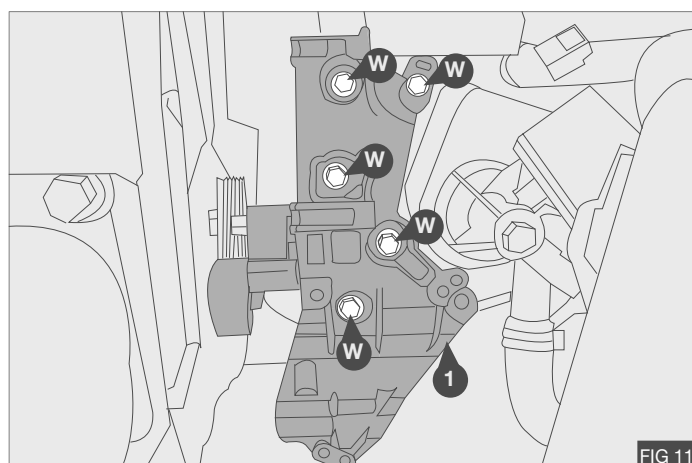
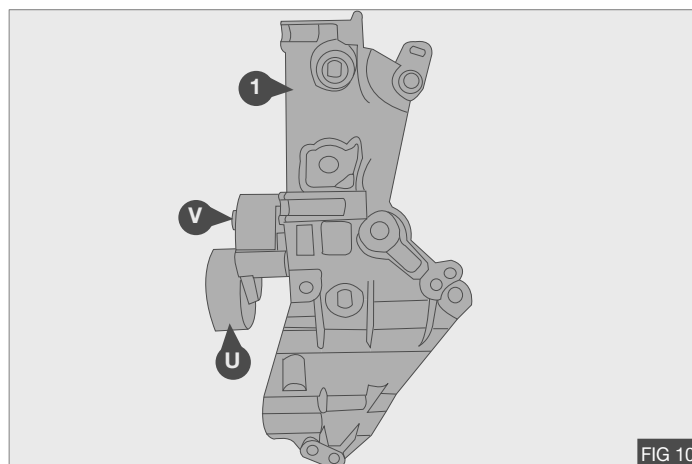
9. Remove the alternator mount bracket  noting the position of the original fasteners .
10. Remove the automatic tensioner  from bracket . Discard Bracket  – Fig 9



MOUNT BRACKET INSTALLATION

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

1. Install the original automatic tensioner  to the supplied mount bracket  using the original fastener . Torque bolt  to 40 Nm / 29.5 lb ft using a calibrated torque wrench – Fig 10
2. Install the compressor mount bracket  to the engine using the original bolts  in their original locations, do not fully tighten bolts  at this stage – Fig 11



- Secure the bottom of compressor mount bracket (1) to the sump using bolt (4) with washer (5) – Fig 9
- Torque bolts (w) to 45 Nm / 33 lb ft – Fig 11, Torque bolt (5) to 25 Nm / 18.4 lb ft – Fig 12

COMPRESSOR INSTALLATION

- Install the supplied compressor manifold (6) in the orientation shown opposite. Torque the securing bolt of the manifold (6) to 34 Nm / 25 lb ft – Fig 13
- Install the compressor to the mount bracket (1) using the 3x M8x100 bolts (3) fitted with washers (5). Torque bolts (3) to 20 Nm / 15 lb ft using a calibrated torque wrench – Fig 13
- Re-fit the alternator (R) and secure using the original fasteners. Torque the alternator fixing bolts to 25 Nm / 18.4 lb ft. Re-fit the wiring to the alternator.

DRIVE BELT

- Install the drive belt (2) as shown opposite – Fig 14

- A. Crankshaft pulley
- B. Tensioner
- C. Alternator
- D. Compressor

FINISH

- Refit the intercooler (N)
- Run the engine with the compressor clutch engaged for five minutes, Check all components.
- Refit the grill support (J), bumper (G), grill (B) and the wheel arch liners
- Install the supplied belt label in the engine bay.

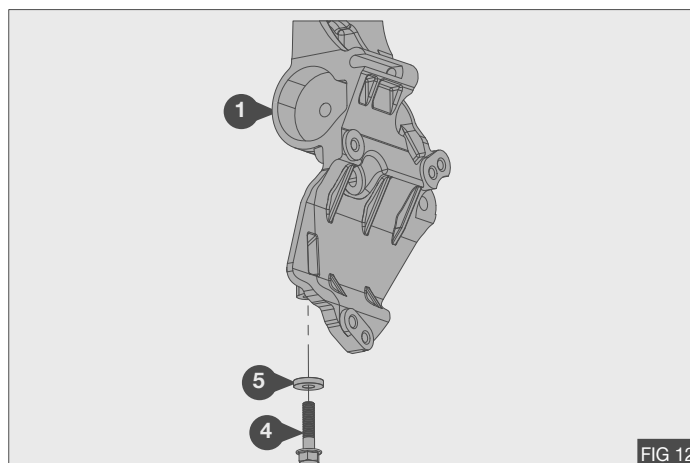


FIG 12

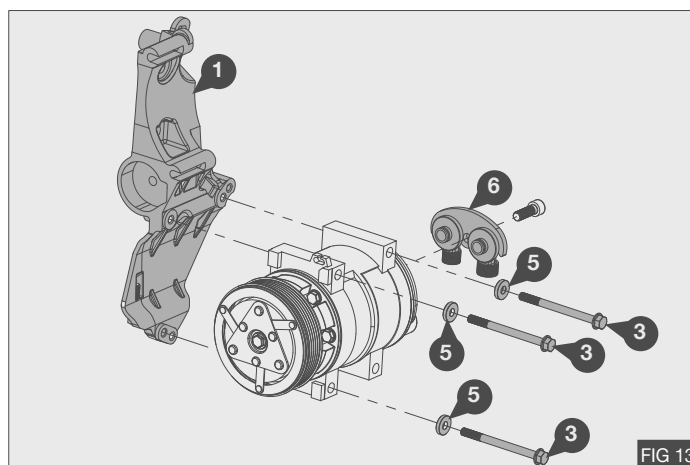


FIG 13

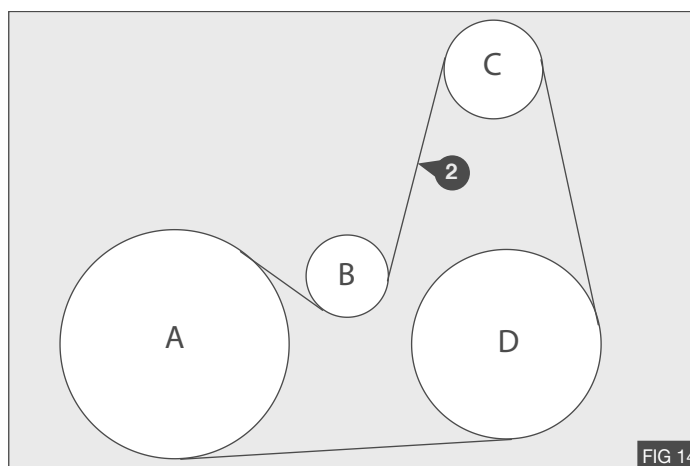


FIG 14

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