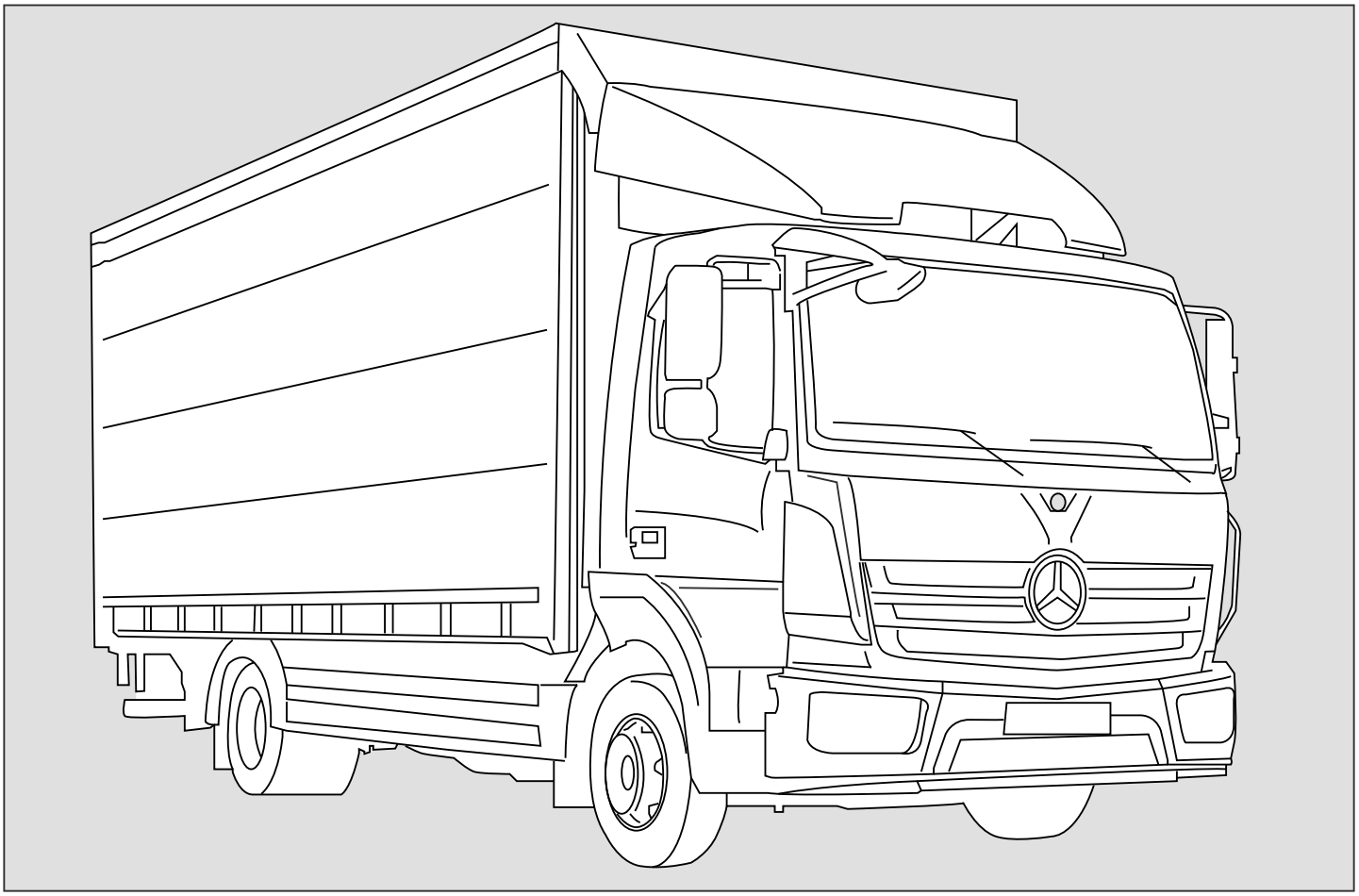
Contents



VEHICLE DETAILS

Manufacturer	Mercedes
Make	New Atego Euro VI
Model	967, 970 - 976
Engine	7.7 L 6 Cyl / OM936 E6
Engine Details	175 / 200 / 220 Kw 238 / 272 / 299 PS
Year	01.14>
Chassis Nos.	N/A
LHD	YES
RHD	YES
PAS	YES
A/C	YES / NO
Voltage	24v

KIT DETAILS

Kit Part Number	0500.7212
Description	Speed Reduction Kit
Compressor RPM	3450 @ Max engine power output
Fitting Time	90 Minutes
Suction Fitting	Straight
Discharge Fitting	Straight
Belt Type	6PK 1173
Belt Part Number	0820.5781

Note: Compatible with or without option N7C
Not compatible with N7E, N7H or N7V options

RECOMMENDED COMPRESSORS

SELTEC	TM-13 HS	TM15-HS	TM16-HS
Comp No.	0381.0392	0381.0062	0381.0772
Seltec No.	435-54123	435-55123	435-56123
Mounting	Ear	Ear	Ear
Rotor	8PV	8PV	8PV
GL	46.55mm	46.55mm	46.55mm
Armature	3E	3E	3E
Diameter	123	123	123
Voltage	24	24	24
Orientation	H	H	H
Fitting	3/4 x 7/8	3/4 x 7/8	3/4 x 7/8
Manifold	Bolt	Bolt	Bolt

QUE	QP13-HD	QP15-HD	QP16-HD
Comp No.	0391.0392	0391.0062	0391.0772
Que No.	QP13-1460	QP15-1526	QP16-1352
Mounting	Ear	Ear	Ear
Rotor	8PV	8PV	8PV
GL	46.55mm	46.55mm	46.55mm
Armature	3E	3E	3E
Diameter	123	123	123
Voltage	24	24	24
Orientation	H	H	H
Fitting	3/4 x 7/8	3/4 x 7/8	3/4 x 7/8
Manifold	Bolt	Bolt	Bolt

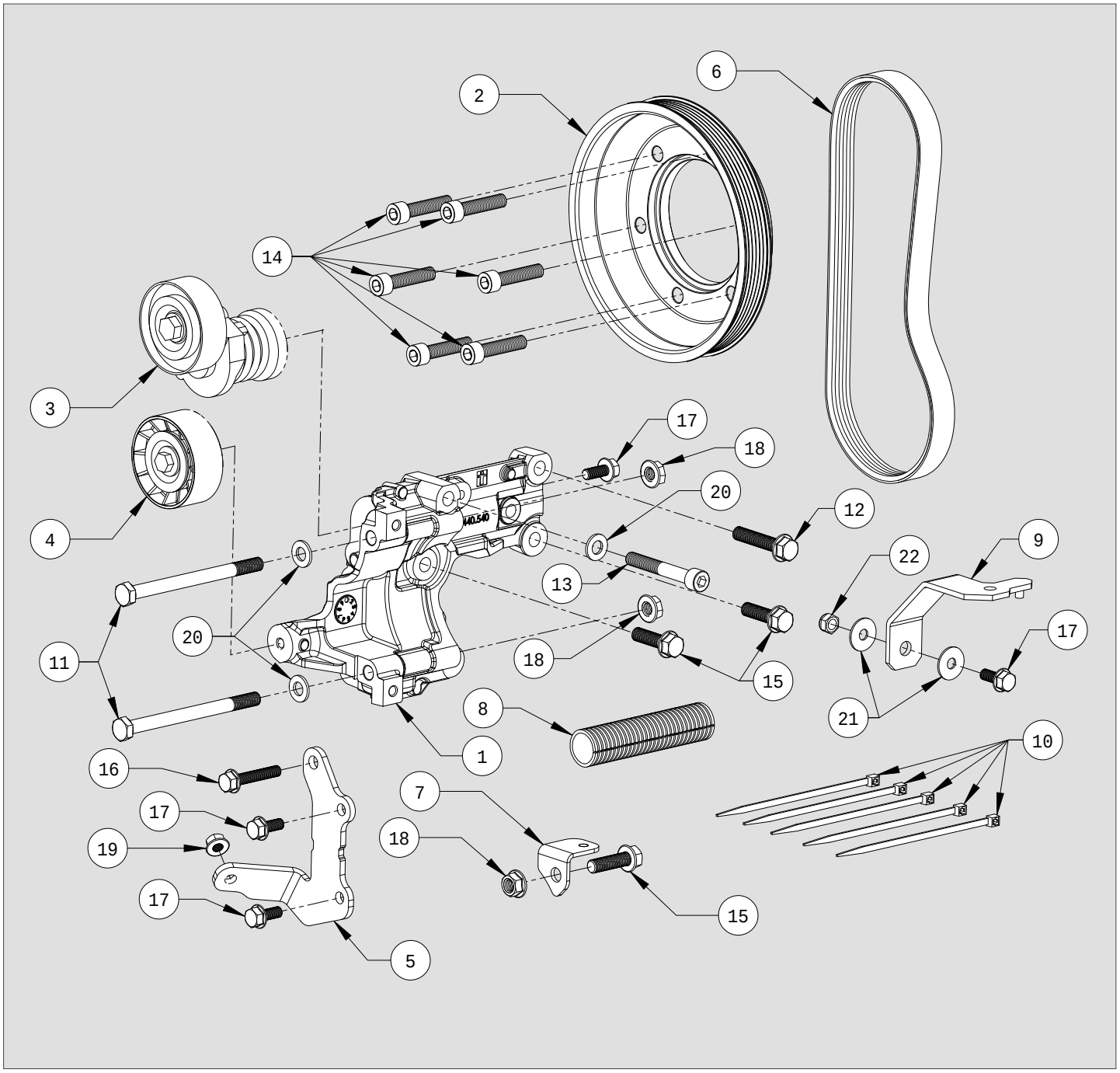
SANDEN	SD5H09	SD5H14	SD7H15
Comp No.	-	-	-
Sanden No.	-	-	-
Mounting	-	-	-
Rotor	-	-	-
GL	-	-	-
Armature	-	-	-
Diameter	-	-	-
Voltage	-	-	-
Orientation	-	-	-
Fitting	-	-	-

Notes

COMPRESSOR KIT CONFIGURATIONS								
PART NUMBER	COMPRESSOR KIT PART NOS						DESCRIPTION	QTY.
	0513.7212	0515.7212	0516.7212	0593.7212	0595.7212	0596.7212		
0381.0392	●						TM13 Ear Mount 8PV 3E 123 24V H 3/4 x 7/8 Bolt	1
0381.0062		●					TM15 Ear Mount 8PV 3E 123 24V H 3/4 x 7/8 Bolt	1
0381.0772			●				TM16 Ear Mount 8PV 3E 123 24V H 3/4 x 7/8 Bolt	1
0391.0392				●			QP13 Ear Mount 8PV 3E 123 24V H 3/4 x 7/8 Bolt	1
0391.0062					●		QP15 Ear Mount 8PV 3E 123 24V H 3/4 x 7/8 Bolt	1
0391.0772						●	QP16 Ear Mount 8PV 3E 123 24V H 3/4 x 7/8 Bolt	1

● = Additional parts to standard kits.

PARTS VIEW



PARTS VIEW LIST

ITEM		DESCRIPTION	QTY.	COMMENTS
1	0441.5401	COMPRESSOR MOUNT BRACKET ASSEMBLY	1	
2	1701.5311	CRANKSHAFT PULLEY	1	
3	1705.5031	AUTOMATIC TENSIONER	1	
4	1700.0331	IDLE PULLEY ASSEMBLY	1	
5	3020.5931	ATEGO SUPPORT PLATE	1	
6	0820.5781	BELT - POLY GROOVE 6PK 1173	1	
7	3020.5941	OIL PIPE SUPPORT BRACKET	1	
8	1430.0092	NYLON SPLIT TUBE	1	
9	3020.5961	UNDER PANEL SUPORT PLATE - MB ATEGO EURO 6	1	
10	2763.0051	CABLE TIE 4.8 X 370 - BLACK	5	
11	2705.0531	HEXAGON HEAD BOLT - M10 X 130 : 10.9	2	
12	2705.0341	HEX FLANGE BOLT DURLOK - M10 X 50 : 1.50 - 12.9	1	
13	2705.5111	HEXAGONAL SOCKET HEAD CAP SCREW M10 X 70 : 1.5- 12.9	1	
14	2705.5271	HEX SOCKET HEAD CAP SCREW M10 X 45 : 1.50 - 10.9	6	
15	2705.0241	HEX FLANGE BOLT DURLOK - M10 X 35 : 1.50 - 12.9	3	
16	2704.0161	HEX FLANGE BOLT DURLOK - M8 X 45 : 1.25 - 12.9	1	
17	2704.0511	HEX FLANGE BOLT - M8 X 20 : 1.25 - 10.9	4	
18	2735.0071	DURLOK HEXAGON FLANGE NUT - M10 : 1.50	3	
19	2734.0021	DURLOK HEXAGON FLANGE NUT - M8 : 1.25	1	
20	2809.0011	WASHER M10 FLAT DIN 125 - A 10.5	3	
21	2808.5021	WASHER - 25OD 8.4ID 1.48L	2	
22	2734.5041	NUT NYLOCK DIN985 - M8 : 1.25	1	

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

1.4 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.

1.4 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 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

PRE-INSTALLATION

Note: 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. Disconnect the Battery
2. Remove the engine under tray
3. Disconnect the fan plug Ⓐ, Remove and retain p-clip Ⓑ – Fig 1

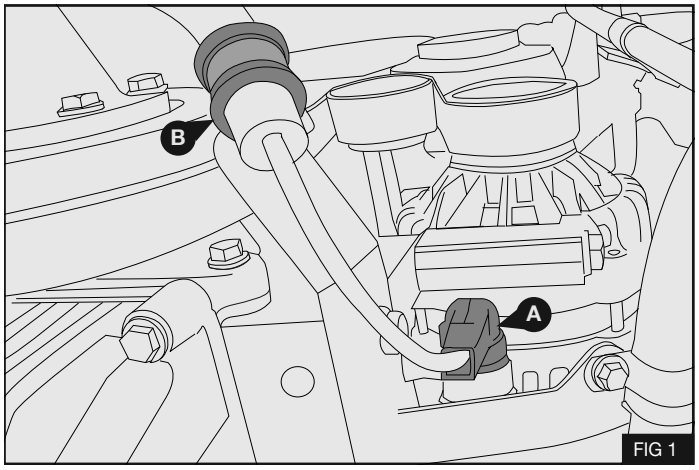


FIG 1

4. Remove wiring plug Ⓒ from bracket Ⓓ

5. Remove and discard p-clip Ⓔ

6. Remove and discard bracket Ⓓ and 2x securing bolts – Fig 2

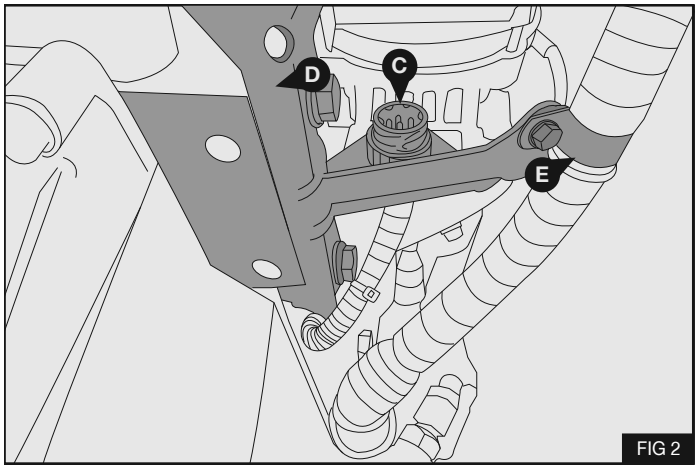


FIG 2

7. Remove and retain the 6x securing bolts (H) securing the fan to the fan hub Ⓖ – Fig 3

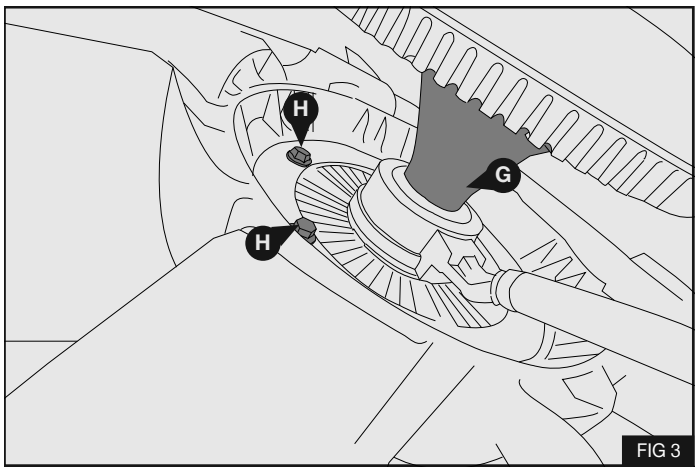


FIG 3

8. Remove and discard the 6x securing bolts Ⓙ securing the fan hub Ⓖ to the crankshaft pulley. Carefully place the fan hub in the radiator cowl – Fig 4

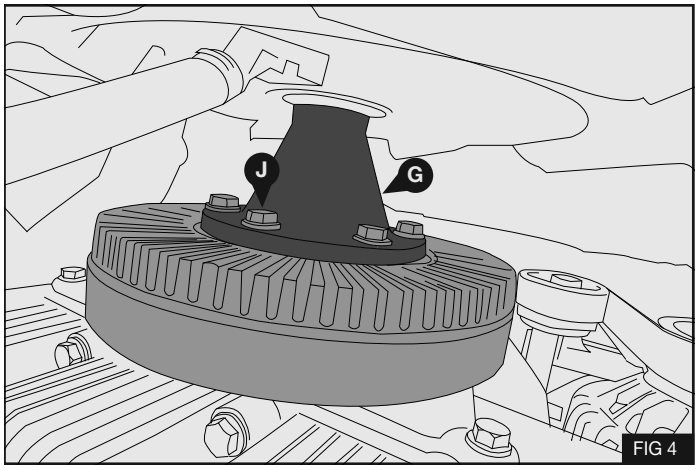


FIG 4

9. Secure the fan hub Ⓖ and the supplied pulley [2] to the original crank pulley Ⓚ using the supplied bolts [14] as shown opposite. Place the supplied belt [6] over the crank pulley [2]. Torque bolts [14] to 50Nm / 36.8lb ft – Fig 5

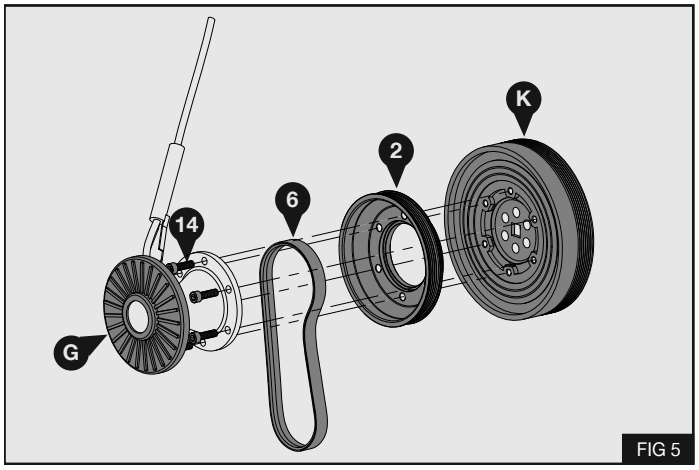


FIG 5

10. Refit the 6x securing bolts Ⓗ securing the fan to the fan hub Ⓖ – Fig 6

Torque bolts Ⓗ to 25Nm /18.4lb ft

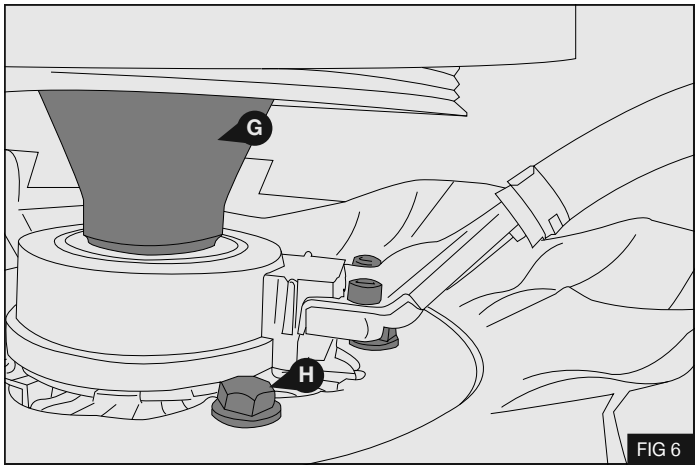


FIG 6

11. Re-connect the fan plug Ⓐ – Fig 7

12. Remove and discard M8 bolt Ⓠ from the timing case - Fig 7

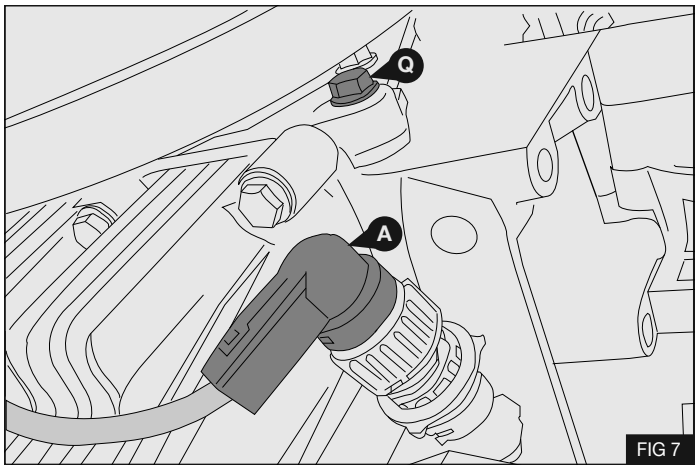


FIG 7

MOUNT BRACKET INSTALLATION

1. Position the automatic tensioner [3] onto the mount bracket [1] as shown opposite and secure with M8x20 bolt [17]. Note position of locating dowel Ⓡ – Fig 8

Torque bolt [17] to 29Nm / 21.4lb ft -Fig 8

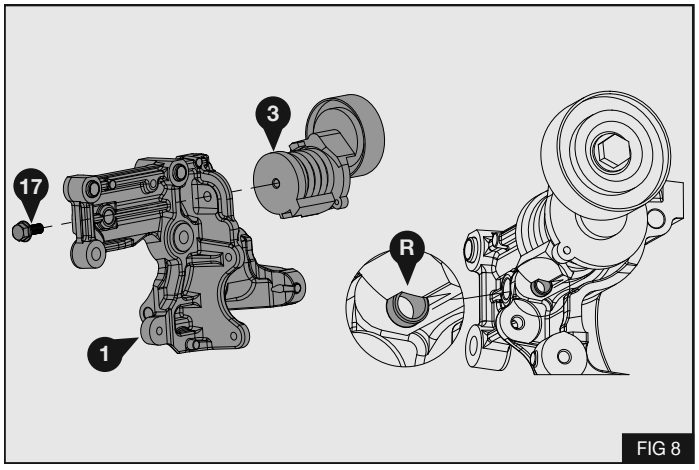


FIG 8

2. Fit the mount bracket (1) to the position below the alternator. Locate the bracket to the dowel holes on the block. Secure using bolts (12), (15) and bolt (13) with washer (20) – Fig 9

Torque bolts (12), (13) and (15) to 58Nm / 42.8lb ft – Fig 9

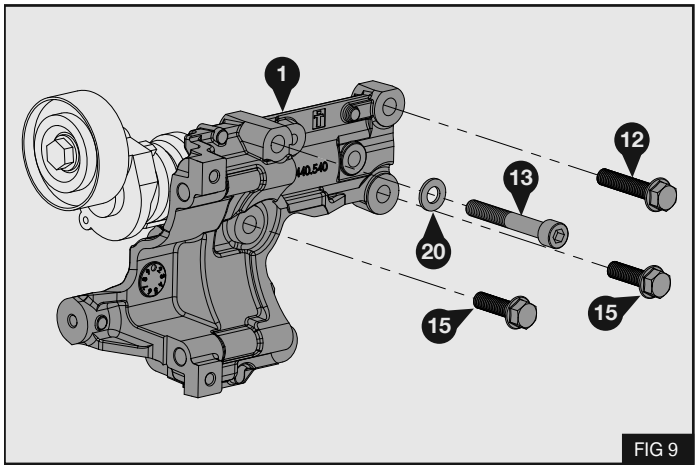


FIG 9

3. Secure the fan loom plug (A) to the rear of support plate (5) using cable tie (10) as shown opposite – Fig 10

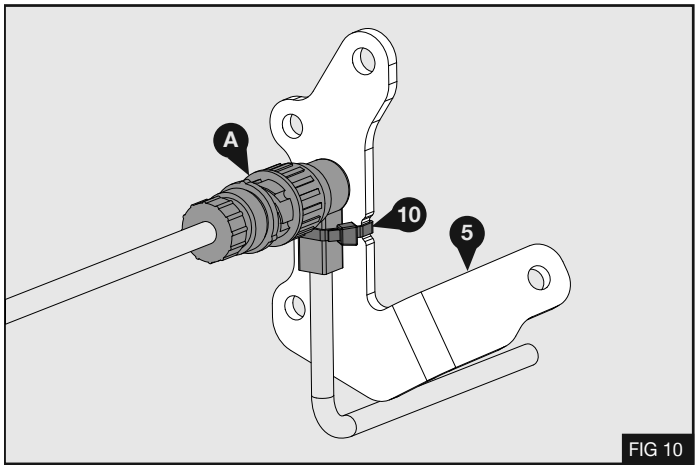


FIG 10

4. Secure the support plate (5) to the mount bracket (1) using 2x bolts (17). Insert bolt (16) through the support plate (5) into the timing case - Fig 11

Torque bolts (16) and (17) to 29Nm / 21.4lb ft. – Fig 11

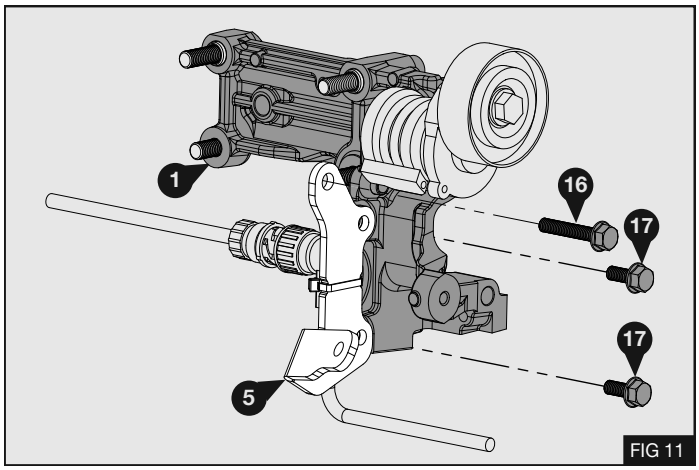


FIG 11

5. Refit the original P-clip (B) of the fan loom to support plate (5) using the original fastener into supplied nut (19) – Fig 12

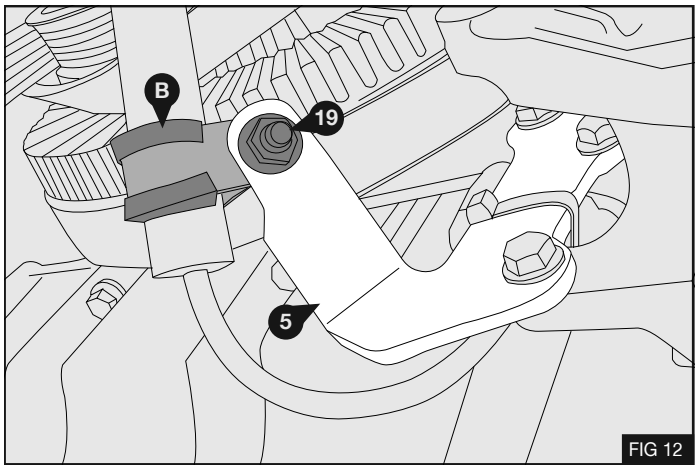


FIG 12

6. Remove and discard the front left under panel support plate (L) from the chassis. Retain the nut and bolt – Fig 13

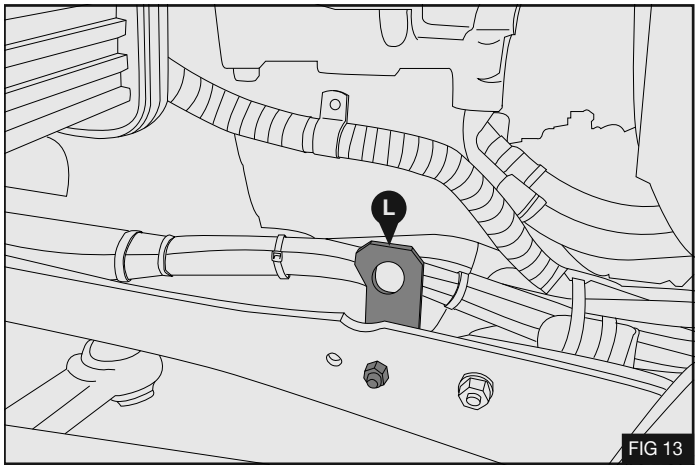


FIG 13

7. Position the supplied under panel support plate [9] onto the front left position on the under panel as shown opposite. Mark the position of hole (S) and drill the under panel to a diameter of 10mm – Fig 14 a/b

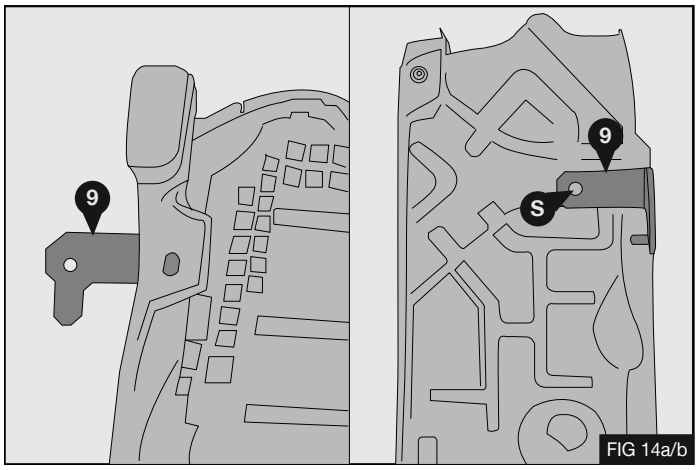


FIG 14a/b

8. Remove the section of under panel (T) as shown opposite – Fig 15

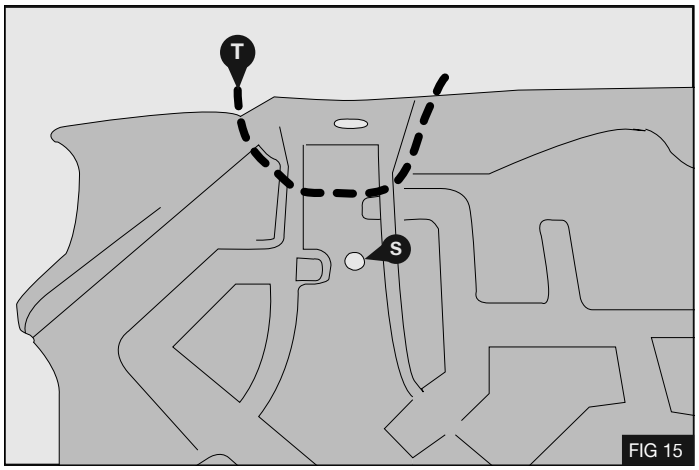


FIG 15

COMPRESSOR INSTALLATION

1. Install the compressor to the mount bracket [1] as shown opposite using bolts [11] with washers [20] and nuts [18] – Fig 16

   Torque bolts [11] to 58Nm / 42.8lb ft. – Fig 16

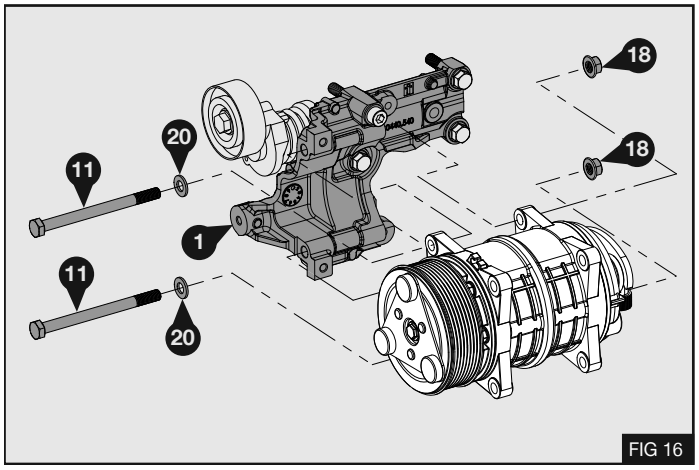


FIG 16

2. Install the idle pulley (4) to the mount bracket (1) – Fig 18

   Torque the idle pulley retaining bolt to 25Nm / 18.4lb ft. – Fig 18

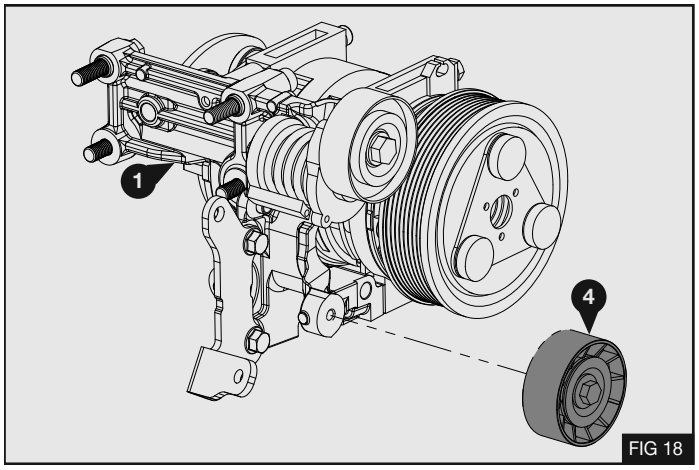


FIG 18

DRIVE BELT

1. Install the supplied drive belt (6) as shown opposite – Fig 19

   A – Crankshaft Pulley
   B – Tensioner Pulley
   C – Compressor
   D – Idle Pulley

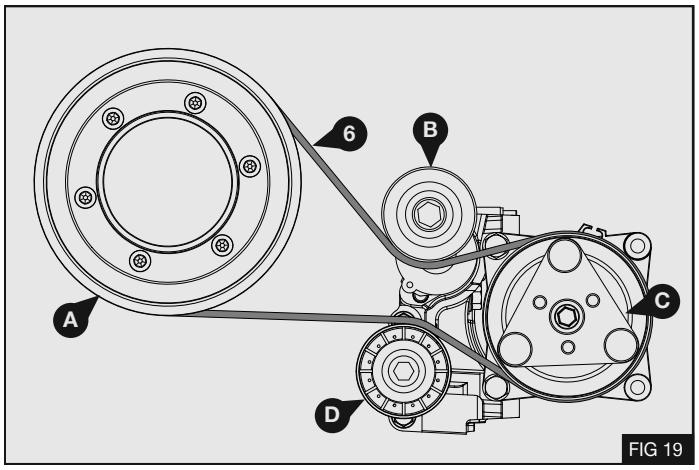


FIG 19

2. Place the belt in the correct groove of the compressor clutch as shown opposite (Seltec / Que PV8) – Fig 20

CAUTION: Once the belt has been installed check for adequate clearance to the fan loom. If required adjust the P–clip securing the fan loom to gain maximum clearance.

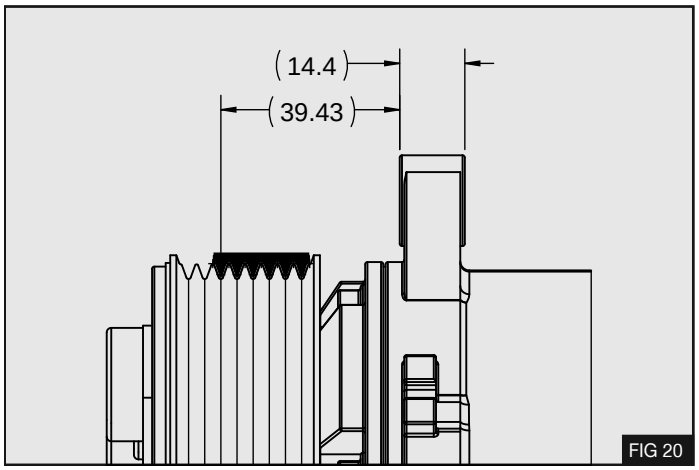


FIG 20

3. Install the supplied under panel support plate (9) to the chassis using the original fixings in the front left location – Fig 21

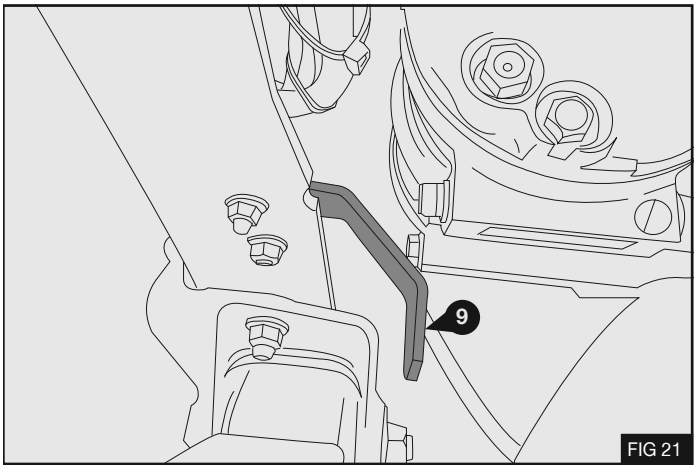


FIG 21

4. Fit the supplied pipe support bracket (7) to the compressor ear using bolt (15) and nut (18). Torque bolt (15) to 45Nm / 33.2lb ft. – Fig 22

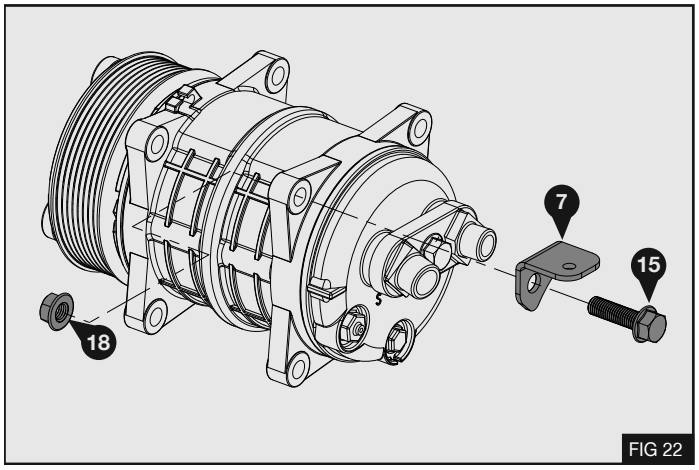


FIG 22

5. Secure the original p-clip Ⓔ on the oil filler pipe to the pipe support bracket (7) as shown opposite using the original fasteners – Fig 23

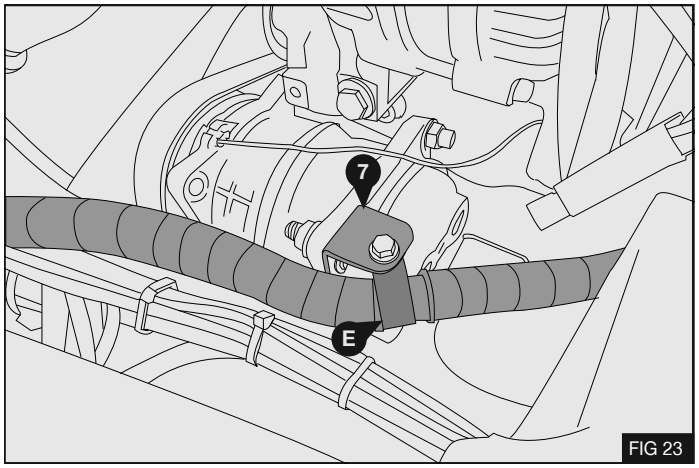


FIG 23

6. Install the pipe work to the compressor. Install the supplied length of nylon split tube (8) over the oil fill pipe Ⓥ. Secure the oil fill pipe Ⓥ to the compressor pipe work using supplied cable - Fig 24

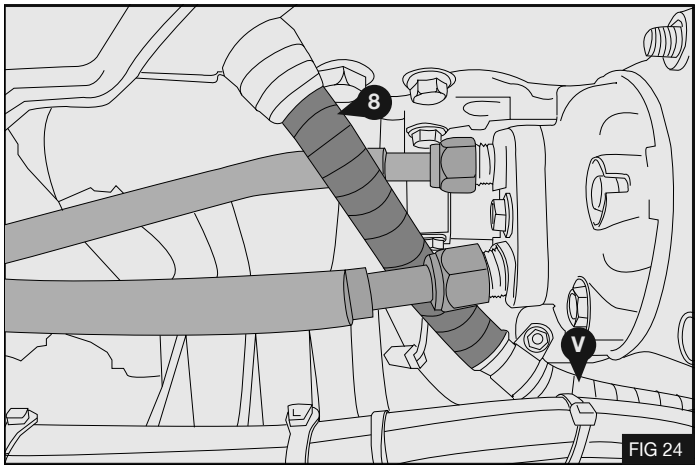


FIG 24

7. Temporarily fit the under panel to the supplied support bracket (9) using bolt (17) with washers (21) and lock nut (22). Mark out and cut the under panel as required to clear the pipe work from the compressor. An example Ⓣ of the cut required is shown opposite - Fig 25

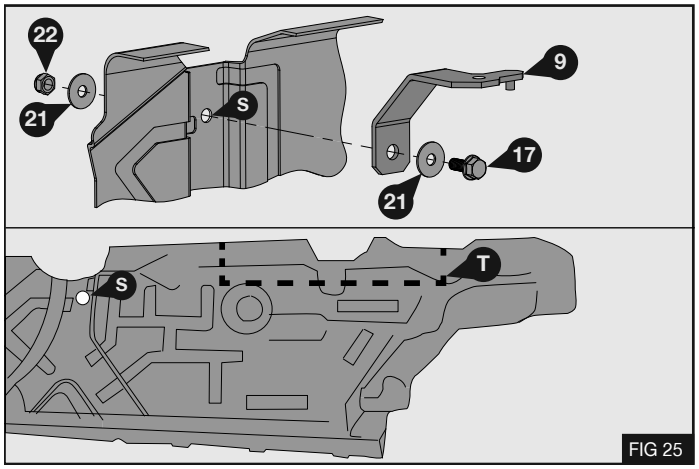


FIG 25

FINISH

1. Run the engine with the compressor clutch engaged for five minutes. Check all components.

2. Install the supplied belt label in the engine bay.