

Contents

ENGLISH	2
Foreword	2
Standard Fastener Torque Values	2
Vehicle Details	3
Adapter Kit Details	3
Compressor Kit Configurations	4
Parts View	5
Parts List	5
Pre Installation	6
Installation	7
Alternator Installation	7
Tensioner Installation	8
Main Drive Belt Installation	9
Compressor Installation	9
Compressor Drive Belt Installation	10
Post Installation	10
Notes	11
Notes	12

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 vehicle's ignition key and keep it with you.
- 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

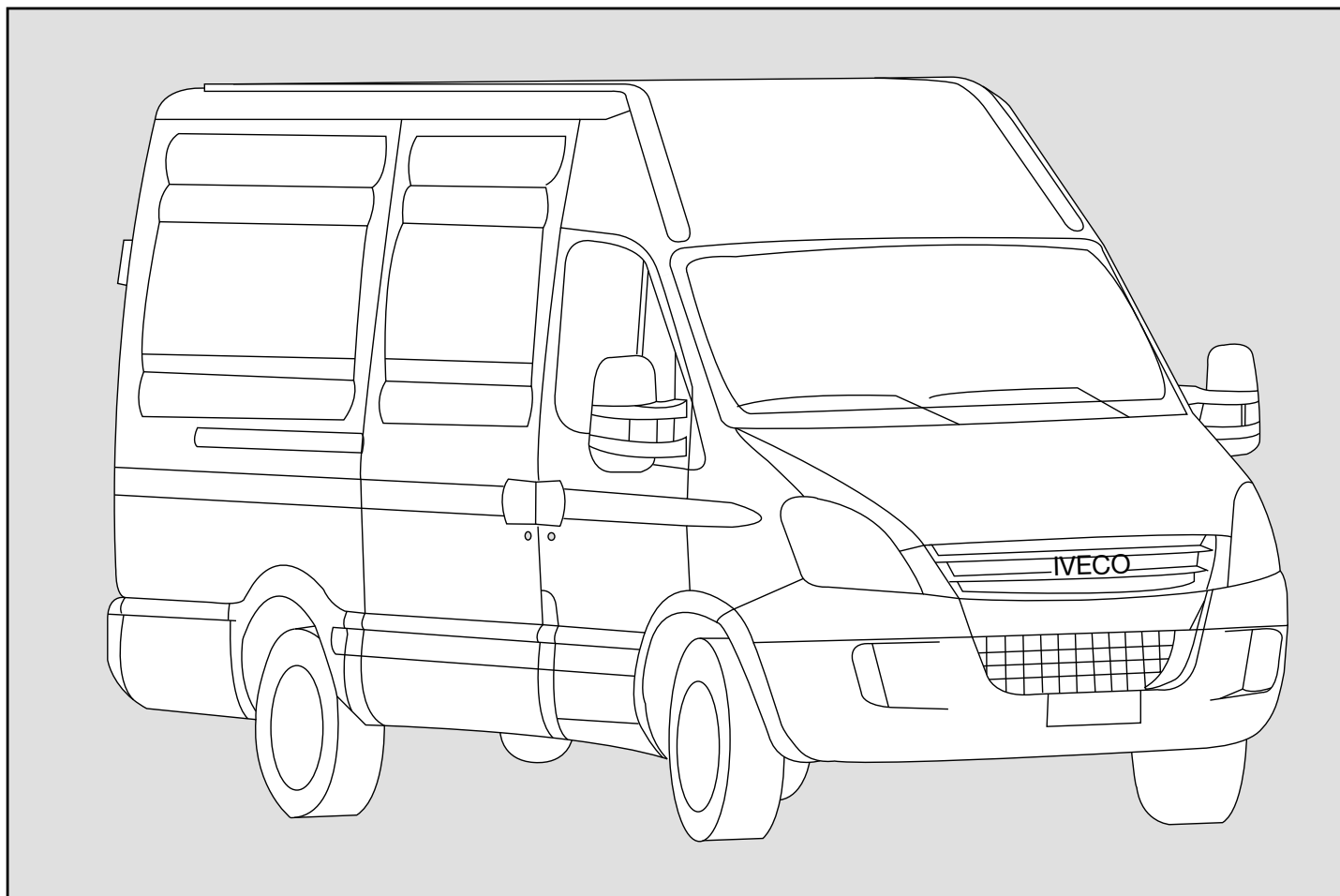
Warning: This calls awareness to actions which must be pursued to avoid damage to the components.

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

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



VEHICLE DETAILS

Manufacturer	Iveco
Model	Daily
Engine	35S 17, 35C 15/17, 40C 15/17, 50C 15/17, 65C 15/17, 70C 15/17
Engine Details	3.0L E5 / EEV (146/170PS) WG/VGT/Twin Turbo - Common Rail
Year	2012>
Chassis Nos.	N/A
LHD	YES
RHD	YES
PAS	YES
A/C	NO
Voltage	12v

KIT DETAILS

Kit Part No.	0500.7002
Description	Standard Kit
Compressor RPM	4100 @ Max Engine
	Power Output
Fitting Time	75 Minutes
Suction Fitting	90°
Discharge Fitting	90°
Main Drive	
Belt Type	6PK 1320
Belt Part No.	0820.5071
Compressor	
Belt Type	4PK 1090
Belt Part No.	0820.6481
Note	Does not fit 205PS Engines

COMPATIBLE COMPRESSORS

SELTEC	-	-	TM21-HS
Comp No	-	-	0380.0621
Valeo No.	-	-	-
Mounting	-	-	Direct
Rotor	-	-	8PV
Armature	-	-	3E
Diameter	-	-	137
Voltage	-	-	12
Orientation	-	-	H
Fitting	-	-	Pad
Manifold	-	-	Bolt

QUE	-	QP16-HD	QP21-HD
Comp No	-	-	0390.0621
Que No.	-	-	QP21-1562
Mounting	-	-	Direct
Rotor	-	-	8PV
Armature	-	-	3E
Diameter	-	-	137
Voltage	-	-	12
Orientation	-	-	H
Fitting	-	-	Pad
Manifold	-	-	Bolt

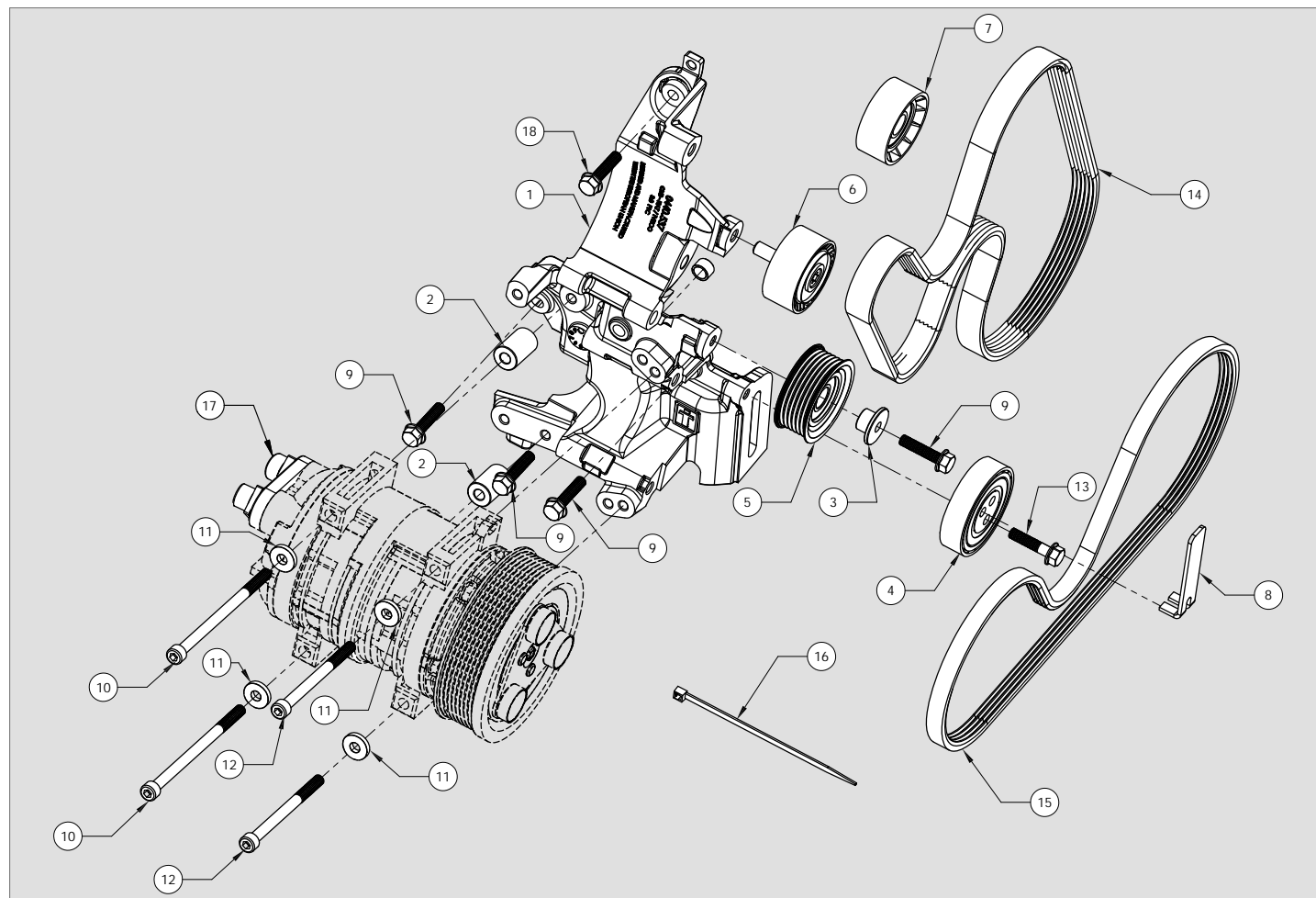
SANDEN	SD5H09	SD5H14	SD7H15
Comp No	-	-	-
Sanden No.	-	-	-
Mounting	-	-	-
Rotor	-	-	-
Armature	-	-	-
Diameter	-	-	-
Voltage	-	-	-
Orientation	-	-	-
Fitting	-	-	-

Notes

COMPRESSOR KIT CONFIGURATIONS				
PART NUMBER	COMPRESSOR KIT PART NOS		DESCRIPTION	QTY.
	0521.7002	0591.7002		
0380.0621	●		TM21 Direct Mount 8PV 3E 137 12V H pad	1
0390.0621		●	QP21 Direct Mount 8PV 3E 137 12V H pad	1

● = Additional parts to standard kits.

PARTS VIEW



PARTS LIST

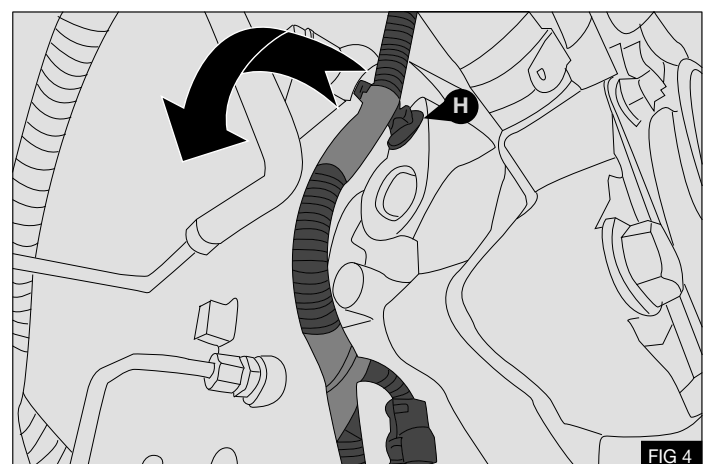
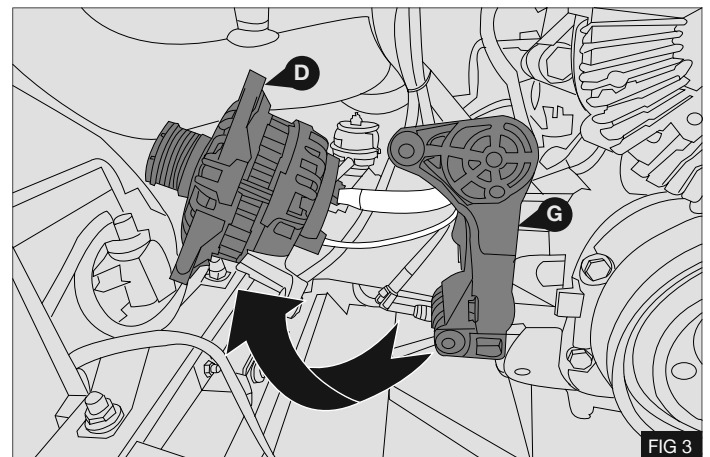
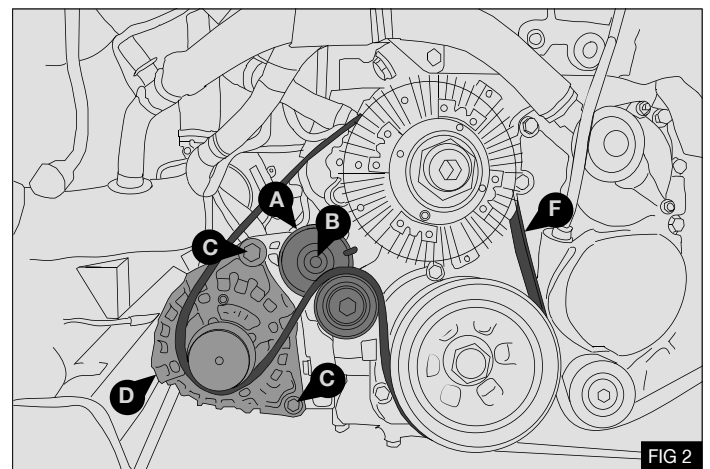
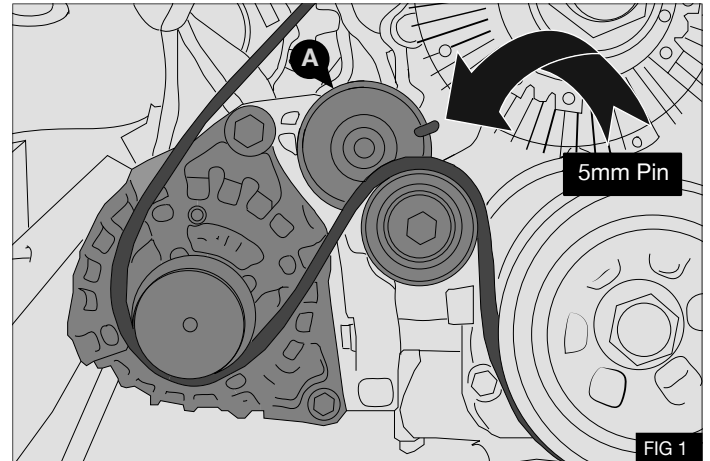
ITEM	PART NO.	DESCRIPTION	QTY.	COMMENTS
1	0441.5371	Compressor mount bracket - Iveco 3.0L F1C	1	-
2	2803.5741	Spacer OD 20 x ID 8.5 L31	2	-
3	2803.5611	Spacer ID 8.3 OD 16.8 L 14.5	1	-
4	1700.0371	Eccentric Idle pulley	1	-
5	1700.0541	Idle pulley - 69 x 26.5 6PK	1	-
6	1700.5231	Idler 6PK Ø 60 inc M10 cap bolt	1	-
7	1700.0341	Idle Pulley 60.2 X 25.5	1	-
8	3020.3863	Eccentric Pulley Adjusting Tool	1	-
9	2704.0481	Hex flange bolt Durlok - M8 x 35 : 1.25 - 12.9	4	-
10	2704.5421	Hex socket head cap screw M8 x 130 : 1.25 - 12.9	2	-
11	2808.5001	Washer M8 Flat DIN 7349 OD21 x ID8.4 x L4	4	-
12	2704.5611	Hex socket head cap screw M8 x 100 : 1.25 - 12.9	2	-
13	2704.1021	Hex flange bolt - M8 x 35 : 1.25 - 10.9	1	-
14	0820.5071	6PK 1320	1	-
15	0820.6481	4PK 1090	1	-
16	2763.0057	Cable Tie 4.8 x 370 - Black	1	-
17	0425.0142	Manifold - H 3/4 x 7/8	1	-
18	2704.0091	Hex flange bolt Durlok - M8 x 30 : 1.25 - 12.9	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.

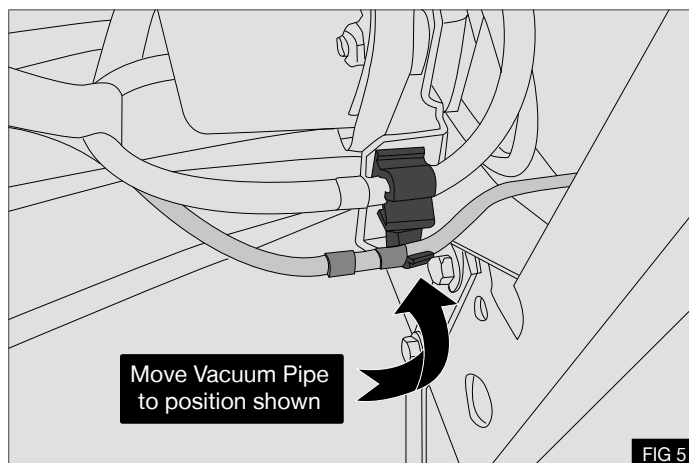
Removal of parts:

1. Disconnect battery negative terminal.
 2. Remove engine under panel.
 3. Release the tension on the original auto tensioner **(A)** and lock using a suitable 5mm diameter pin - Fig 1
- N.B** it is necessary to lock the auto tensioner to facilitate re- installation
4. Remove and discard the original drive belt **(F)** - Fig 2
 5. Remove and retain the auto tensioner **(A)** and its fixing screw **(B)** - Fig 2
 6. Remove and retain the screws **(C)** securing the alternator **(D)** Fig 2
7. Disconnect the alternator **(D)** from its bracket and place to one side - Fig 3
 8. Remove and discard the original alternator mounting bracket **(G)** and its fasteners - Fig 3
 9. Remove the loom support **(H)** from the M8 upper mounting hole.- Fig 4

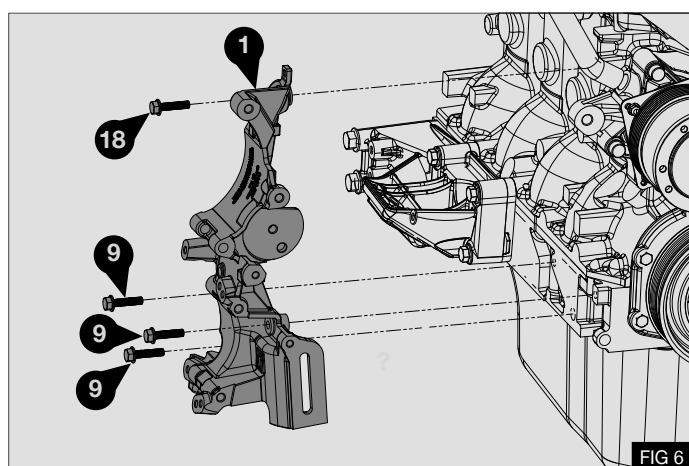


INSTALLATION

1. If the vacuum assistor box is installed move pipe to position shown, this will improve clearance to the compressor pulley once installed - Fig 5

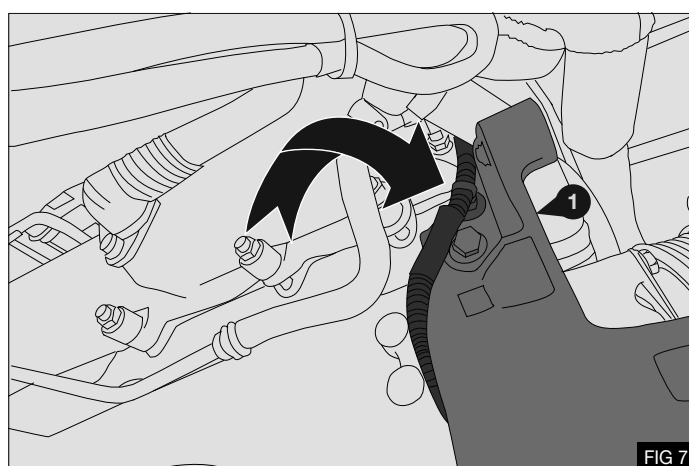


2. Fit the mount bracket (1) to the points shown on the engine using 4 x M8x 35 bolts (9) and M8x 35 bolt (18) - Fig 6

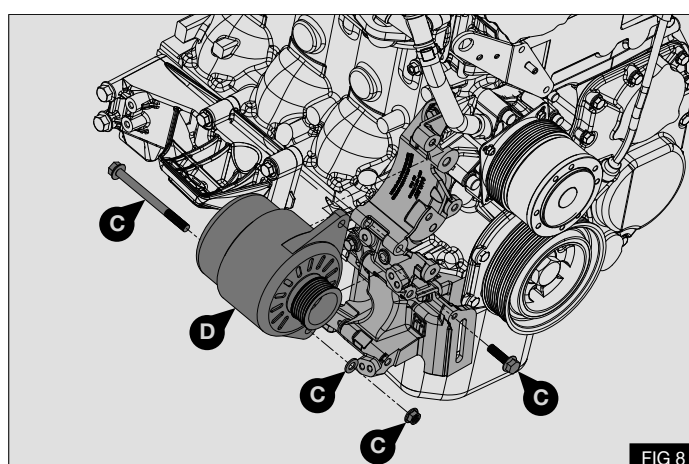




3. Torque bolts (9) and (18) to 35Nm / 26 Lbft - Fig 6

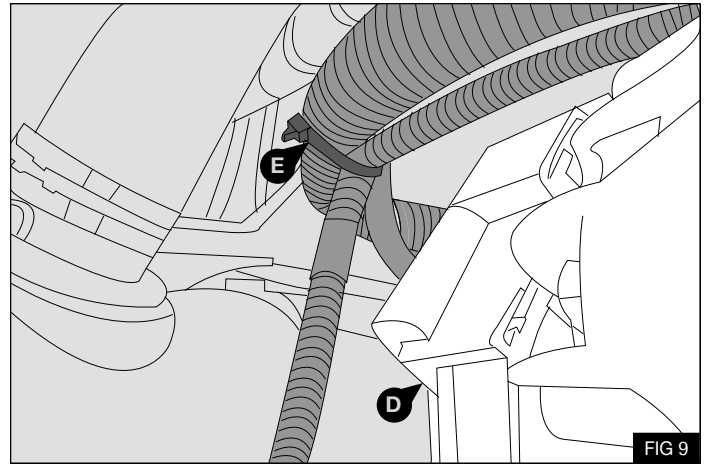
4. Fit loom support into the hole provided in mount bracket - Fig 7




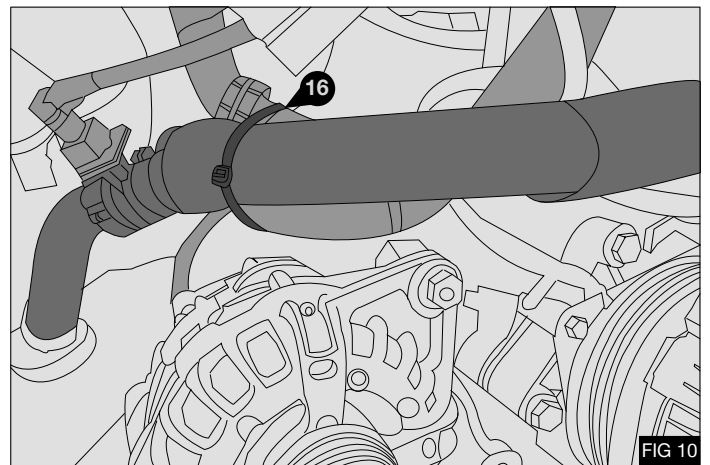
5. Fit the alternator (D) using the original fasteners (C) - Fig 8






- 6. Torque fasteners  to 45Nm / 33Lbft
- 7. Remove the cable tie  securing the loom at the rear of the alternator - Fig 9



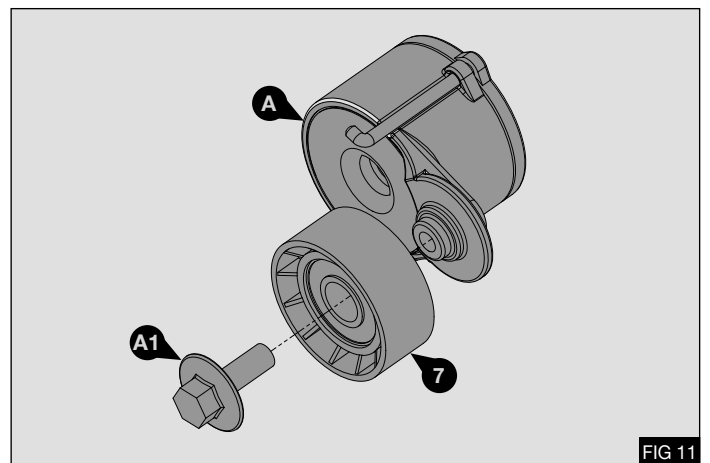
- 8. Secure loom using cable tie  at point shown - Fig 10






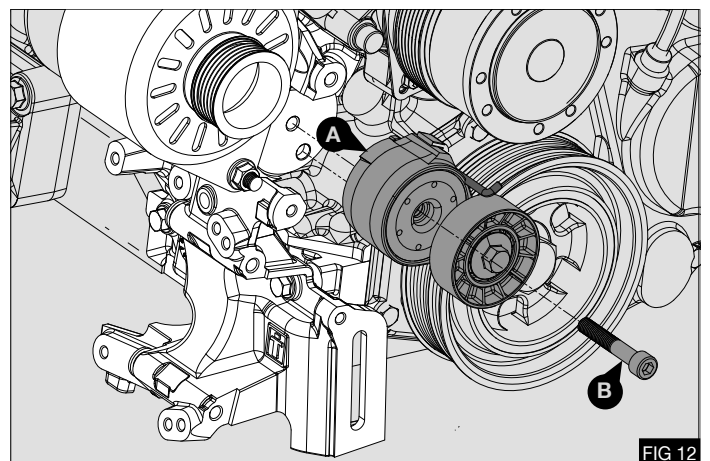
- 9. Remove and discard original pulley from tensioner , retain fastener (A1) - Fig 11

- 10. Fit supplied pulley  using original fastener  - Fig 11

- 11. Torque bolt  to 45Nm / 33Lbft



- 12. Fit auto tensioner assembly  to the bracket  using original fastener  - Fig 12



13. Torque fastener **(B)** to 45Nm / 33Lbft

14. Fit reverse idler pulley assembly **(6)** - Fig 13

15. Torque bolt **(6)** to 45Nm / 33Lbft

16. Fit grooved idler pulley **(5)** using M8 x 35 bolt **(9)** with spacer **(3)** - Fig 13

17. Torque bolt **(9)** to 35Nm / 26lbft

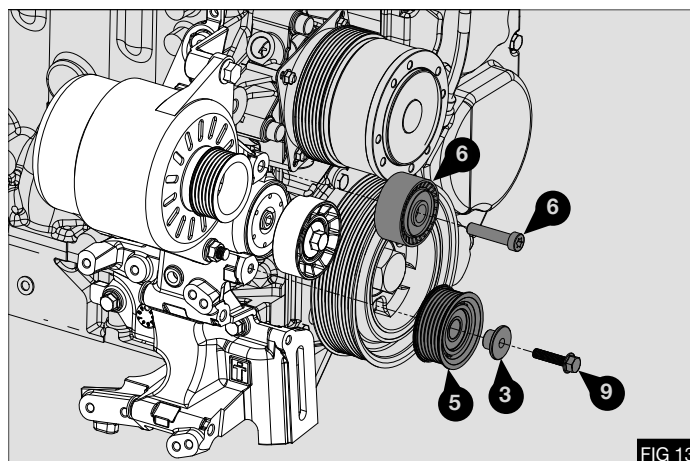


FIG 13

18. Fit the supplied drive belt **(14)**, and remove locking pin from auto tensioner **(A)** - Fig 14

- A - Crank pulley
- B - Auto tensioner
- C - Grooved idler pulley
- D - Alternator
- E - Reverse idler pulley
- F - Fan hub

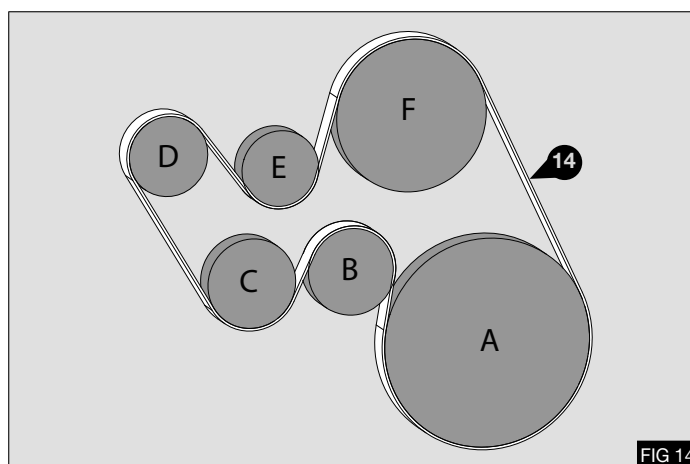


FIG 14

19. Install the eccentric tensioner pulley **(4)** using bolt **(13)** - Fig 15

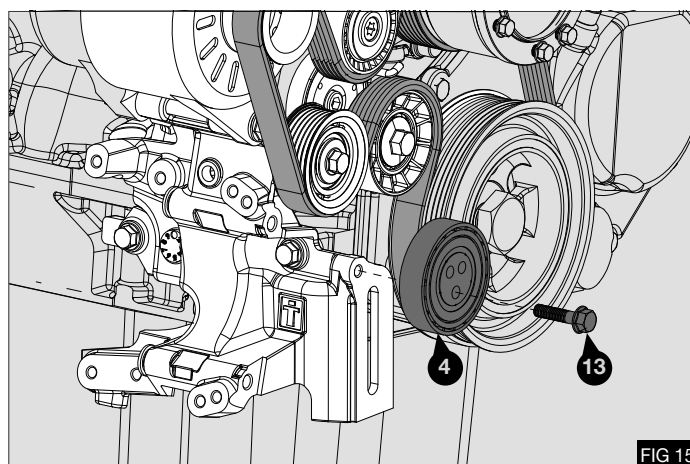


FIG 15

20. Fit the compressor (not supplied) to the bracket **(1)** using M8 x 130 bolts **(10)** and M8 x 100 bolts **(12)** with washers **(11)** and spacers **(2)** - Fig 16

21. Torque bolts **(10)**, **(12)** to 35Nm / 26lbft

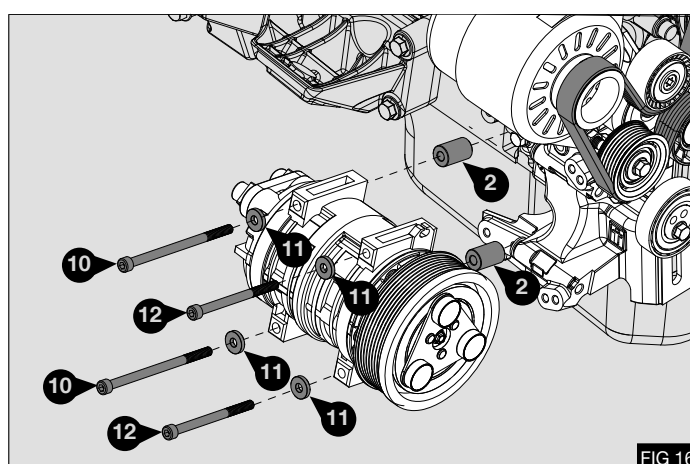






FIG 16

22. Install drive belt , tension belt using tool  once correct tension has been achieved (see table) tighten bolt  - Fig 17

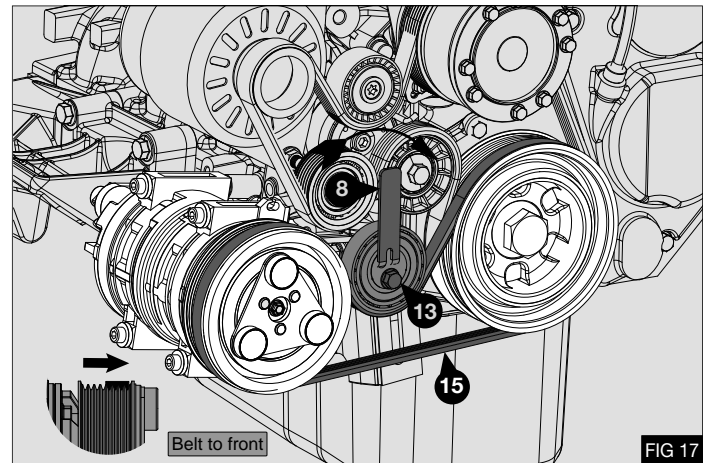
BELT TENSION TABLE		
Belt	Belt Age	Belt Tension Using the Belt Tension Gauge
4PK	New Belt	48 - 56 kg
4PK	Used Belt	36 - 40 kg

23. Torque bolt  to 25Nm / 18lbf

Warning: Fit drive belt  to front grooves of compressor.

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 on to a suitable location.



Notes

Notes