



Techni
ENGINEERING SOLUTIONS

CITROEN, PEUGEOT, FIAT

BERLINGO, JUMPY / DISPATCH

PARTNER, EXPERT

SCUDO 1.6 HDI 75/90/92

CODE / CODICE: 0500.6772

**COMPRESSOR / COMPRESSEUR / KOMPRESSOR
/ COMPRESSORE / COMPRESOR :**

SELTEC TM13 / 15

QUE QP13 / 15

FITTING INSTRUCTIONS

EINBAUANLEITUNGEN

INSTRUCTIONS POUR LE MONTAGE

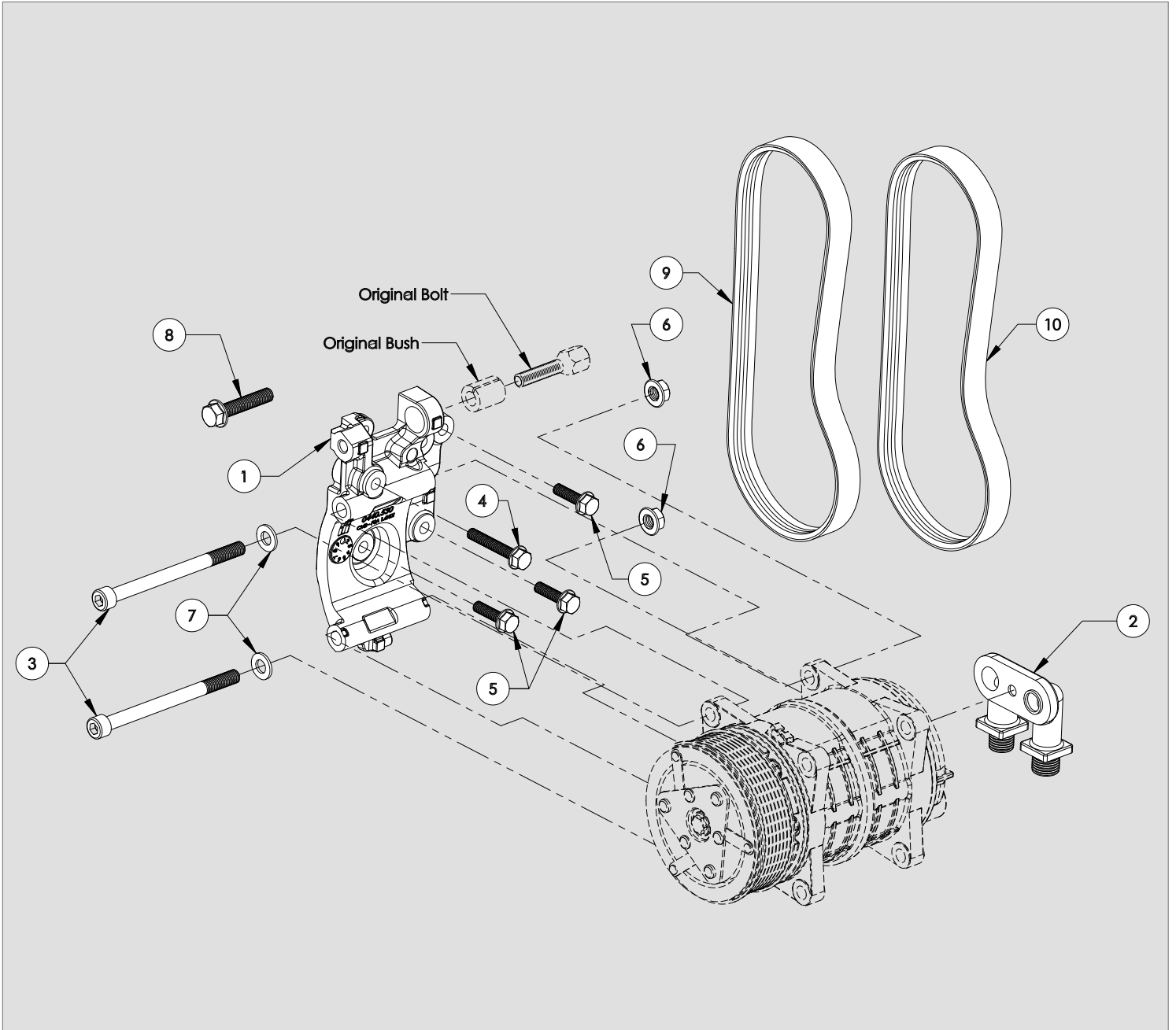
ISTRUZIONI DI MONTAGGIO

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	0440.5301	Compressor Mount Bracket	1	-
2	0425.0251	Manifold Inverted - 3/4 x 7/8 Insert O-Ring	1	-
3	2705.0301	Hex socket head cap screw M10 x 130 : 1.50 - 12.9	2	-
4	2704.0101	Hex flange bolt - M8 x 50 : 1.25 - 10.9	1	-
5	2704.0091	Hex flange bolt Durlok - M8 x 30 : 1.25 - 12.9	3	-
6	2735.0071	Durlok Hexagon Flange Nut - M10 : 1.50	2	-
7	2809.0011	Washer M10 Flat DIN 125 - A 10.5	2	-
8	2705.0341	Hex flange bolt Durlok - M10 x 50 : 1.50 - 12.9	1	-
9	0820.6321	Belt - Poly Groove 6PK 986	1	-
10	0820.5251	Belt - Poly Groove 6PK 1698	1	-
11	2763.0051	Cable Tie	1	Not Shown
12	0820.0941	Belt - 6PK1710 (Not Included)	1	OE A/C

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

SELTEC	TM-13	TM-15	-
Comp No	0381.0832	0381.0842	-
Valeo No.	-	-	-
Mounting	Ear	Ear	-
Rotor	8PV	8PV	-
GL	-	-	-
Armature	SL	SL	-
Diameter	123	123	-
Voltage	12	12	-
Orientation	Inverted	Inverted	-
Fitting	3/4 x 7/8	3/4 x 7/8	-
Manifold	Bolt	Bolt	-

QUE	QP-13	QP-15	-
Comp No	0391.0832	0390.0842	-
Que No.	-	-	-
Mounting	Ear	Ear	-
Rotor	8PV	8PV	-
GL	-	-	-
Armature	SL	SL	-
Diameter	123	123	-
Voltage	12	12	-
Orientation	Inverted	Inverted	-
Fitting	3/4 x 7/8	3/4 x 7/8	-
Manifold	Bolt	Bolt	-

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

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.

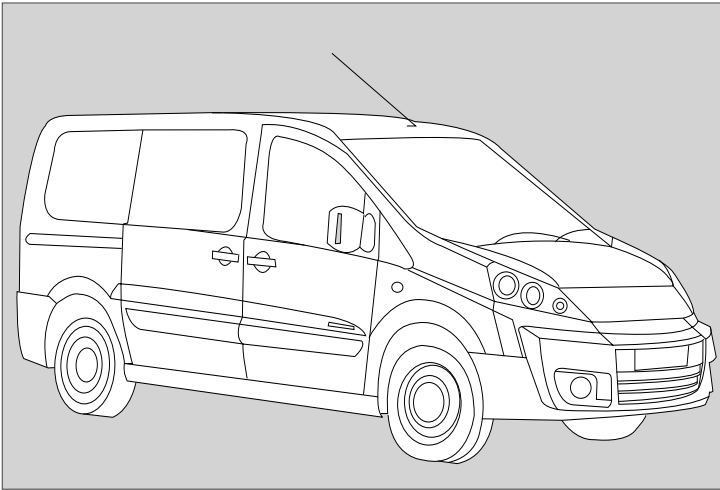
VALORI STANDARD DI SERRAGGIO PER DISPOSITIVI DI FISSAGGIO

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	Citroen, Peugeot, Fiat
Make	Berlingo, Jumpy / Dispatch Partner, Expert Scudo
Model	1.6 HDi 75/90/92
Engine CC	1560
Engine Details	Euro 4/5 DV6 75/90/92 PS
Year	01/2007 >
Chassis Nos.	
LHD	YES
RHD	YES
PAS	YES
A/C	NO
Voltage	12v

KIT DETAILS

Kit Part No.	0500.6772
Description	Standard Kit
Compressor RPM	5109 @ Max Engine
Power Output	
Fitting Time	60 Minutes
Suction Fitting	90°
Discharge Fitting	90°
Belt Type (Electric PAS)	6PK 986
Belt Part No. (Electric PAS)	0820.6321
Belt Type (Std PAS)	6PK 1698
Belt Part No. (Std PAS)	0820.5251

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.

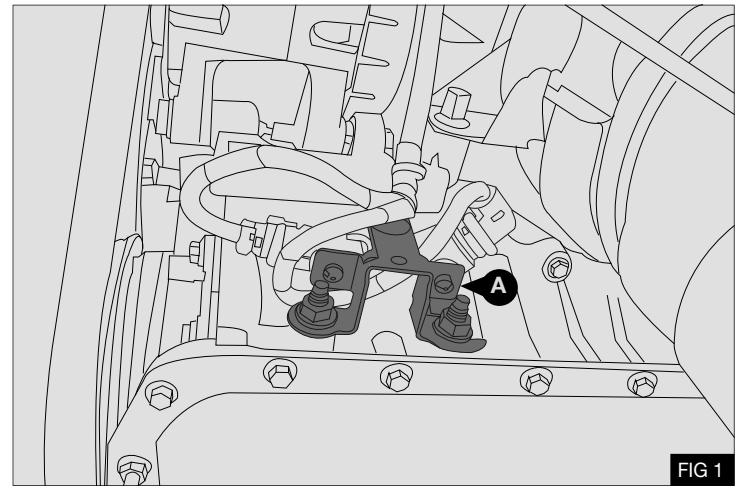
N.B This kit is designed to fit to two different variants of the 1.6 HDi engine –

- 1 – Hydraulic PAS
- 2 – Electric PAS

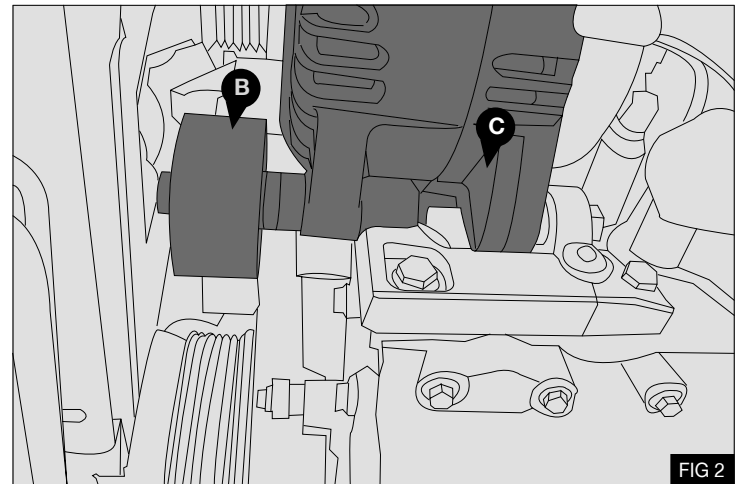
Please follow the relevant section of the instruction manual for the vehicle you have.

REMOVE THE FOLLOWING PARTS:**All Vehicles**

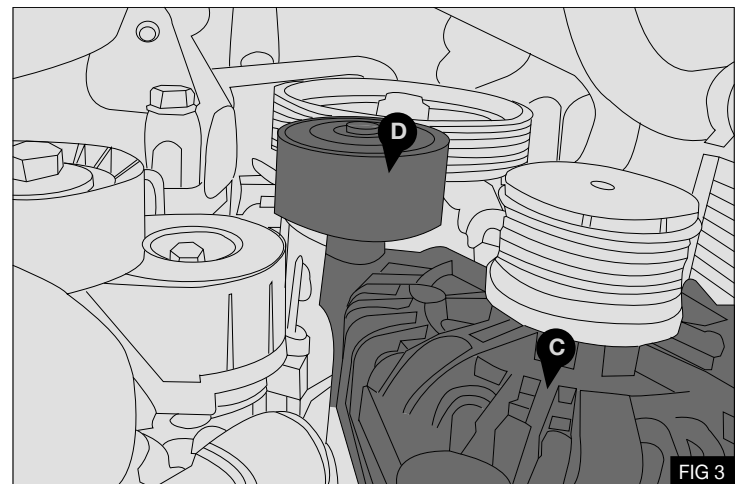
1. Remove the engine under panel (if installed)
2. Remove and discard the loom bracket (A) Remove the M8 studs from the engine using the M8 nuts that previously secured the loom bracket (A) – Fig 1

**Vehicles with hydraulic PAS only:**

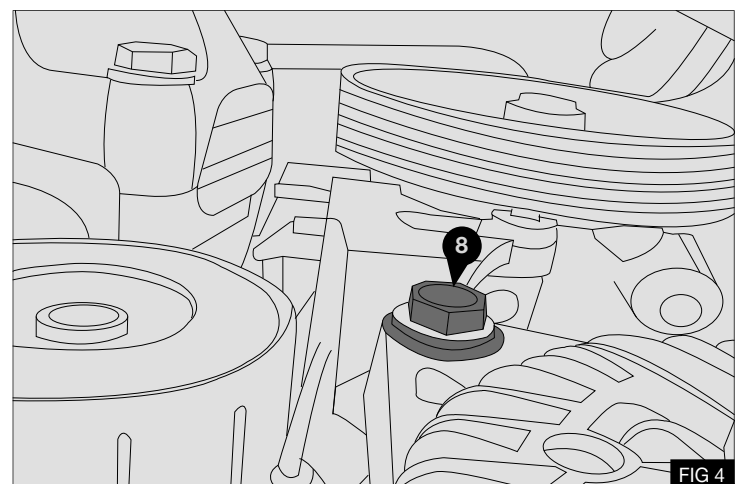
3. Remove the original drive belt and discard
4. Remove idle pulley (B) from alternator (C) and retain - Fig 2
5. Remove idle pulley (D) from alternator (C) and discard - Fig 3



N.B This mount kit is not designed to fit vehicles with factory AC. However this kit will fit if the original AC compressor is removed and discarded. If this is the case then the factory AC belt (6PK1710) must be retained and used instead of the supplied 6PK 1698 belt

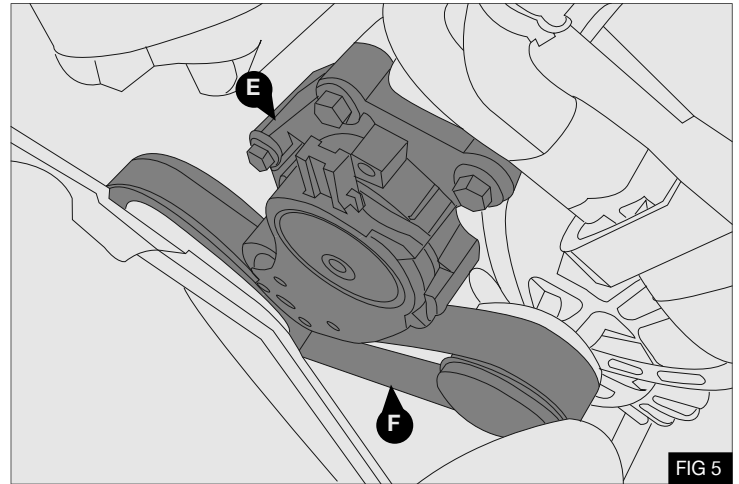


6. Install the supplied M10 x 50 bolt (8) in place of original idle pulley (D), Do not fully tighten bolt (8) at this stage - Fig 4

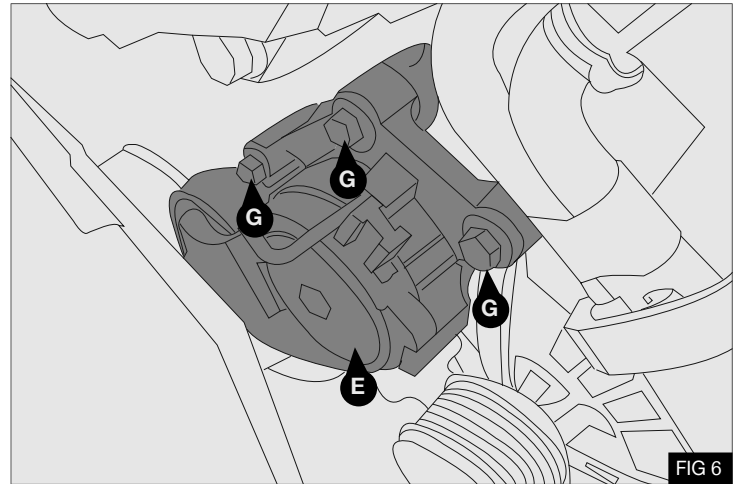


Vehicles with electric PAS only:

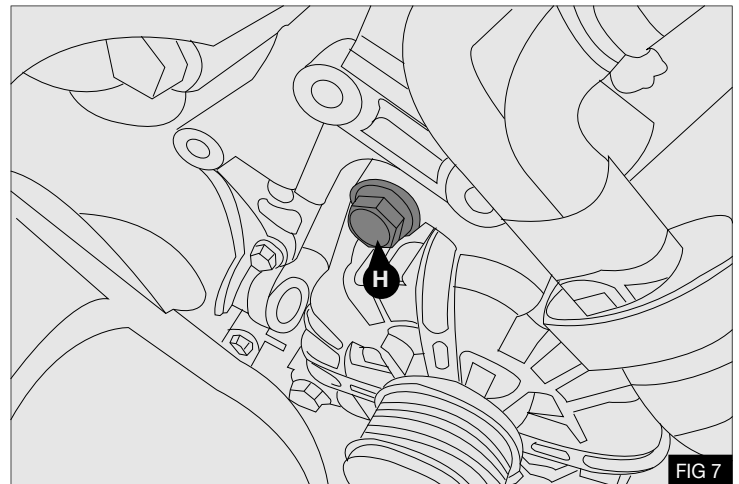
7. Turn the tensioner (E) clockwise and insert a pin to lock the tensioner in the open position - Fig 5
8. Remove and discard the original drive belt (F) - Fig 5



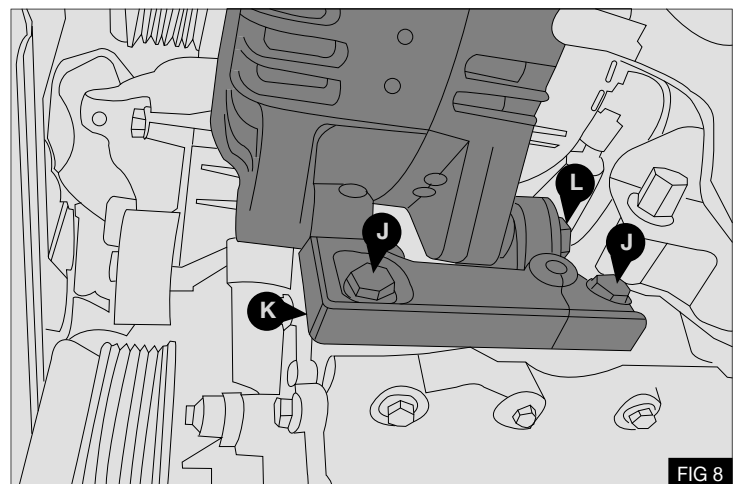
9. Loosen bolts (G) securing the tensioner (E), remove and retain the bolts (G) and tensioner (E) - Fig 6



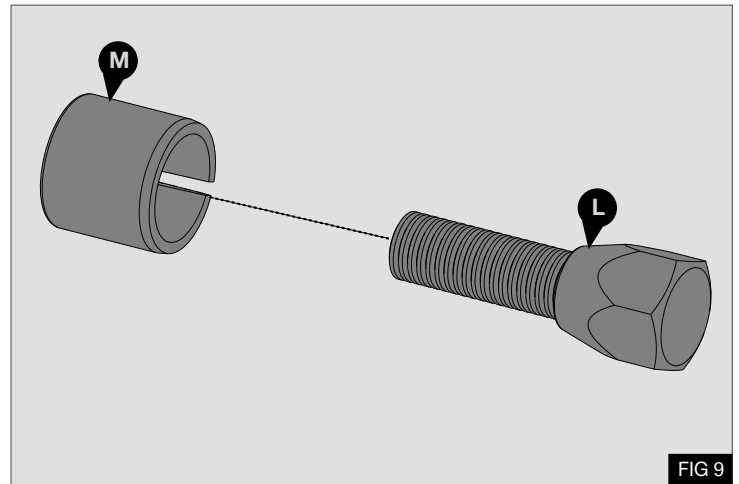
10. Loosen the alternator top securing bolt (H) - Fig 7



11. All Vehicles Remove bolts (J) securing the lower alternator bracket (K) - Fig 8



12. Loosen rear alternator bolt (L) - Fig 8. Swing the alternator out from the engine and remove and retain bolt (L) and bush (M) - Fig 9



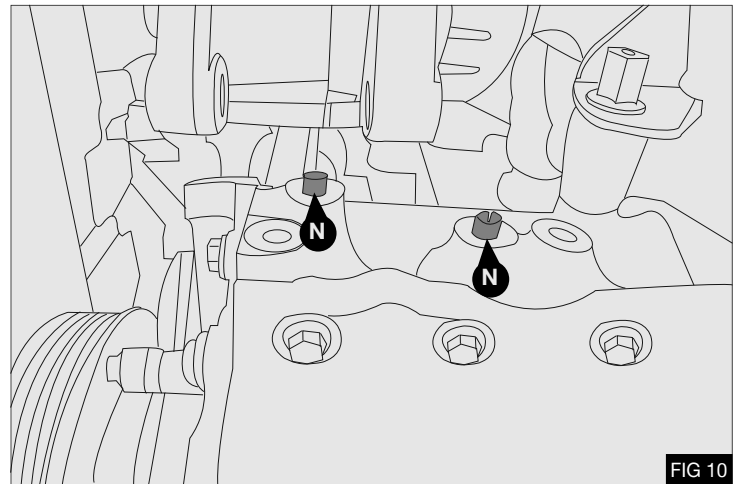
13. Check that both of the dowels (N) remain in the engine block when removing bracket (K) - Fig 10

Vehicles with electric PAS only:

14. Retain the lower front alternator mounting bolt

All Vehicles:

15. Discard lower alternator bracket (K)

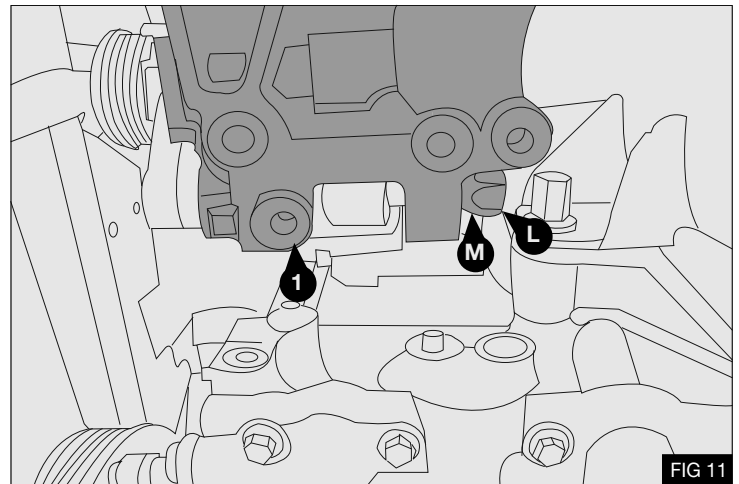


MOUNT BRACKET INSTALLATION

Caution: Do not use "Loctite" on any bolt unless stated - This will void the Compressor Mount Bracket Warranty.

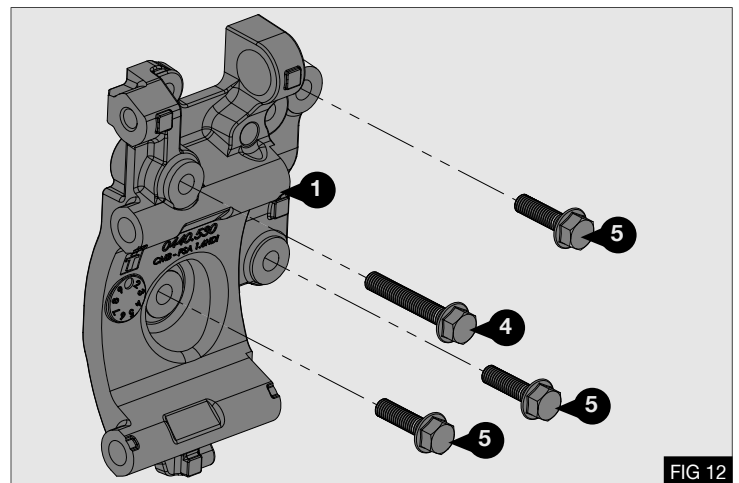
All Vehicles:

1. Position the mount bracket (1) as shown opposite (90° to engine) and install original bolt (L) and bush (M) - Fig 11



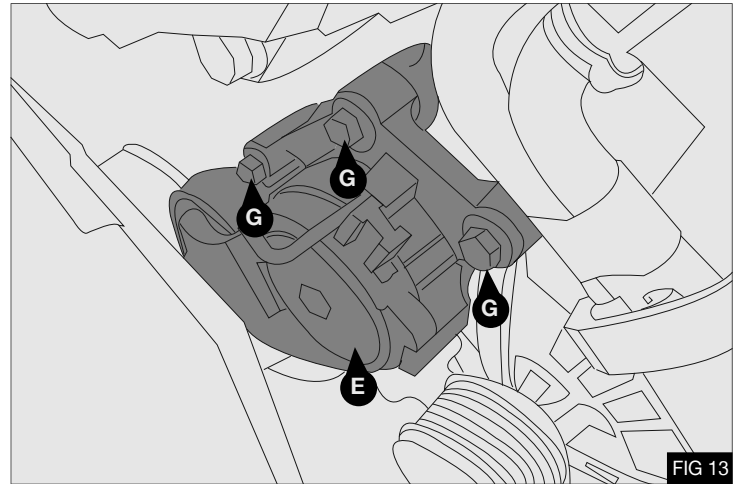
2. Pivot the mount bracket and alternator assembly down onto the dowels (N) located in the engine block. Secure the mount bracket (1) using bolts (4) and (5) in the positions shown opposite.

Torque bolts (4) and (5) to 25Nm / 18.5lb ft - Fig 12

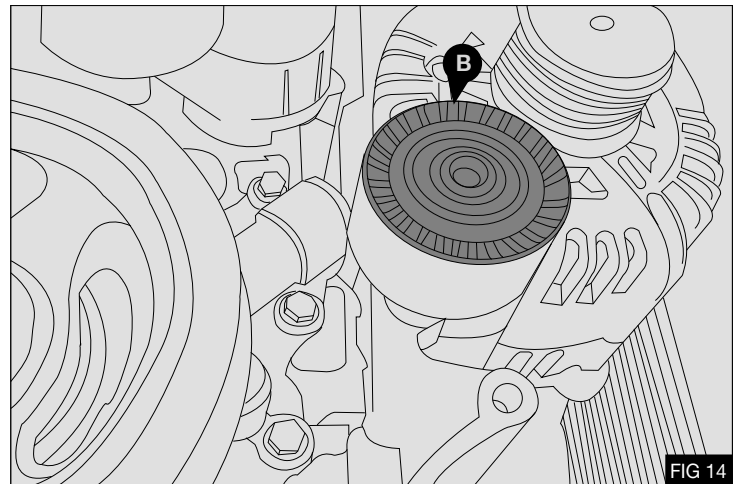


Vehicles with electric PAS only:

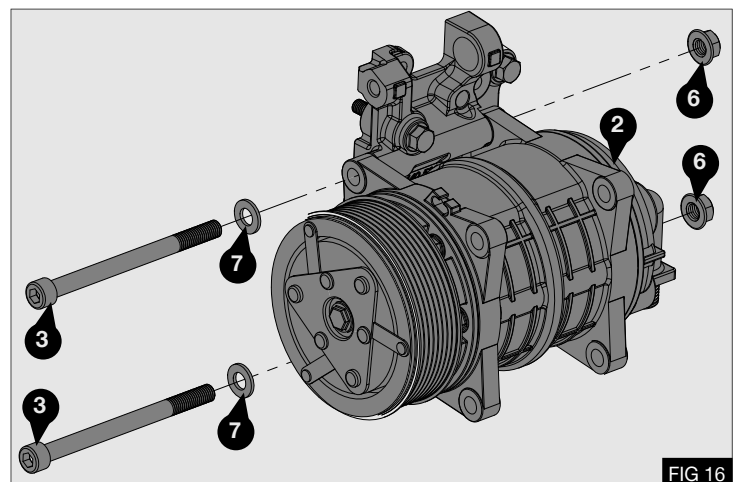
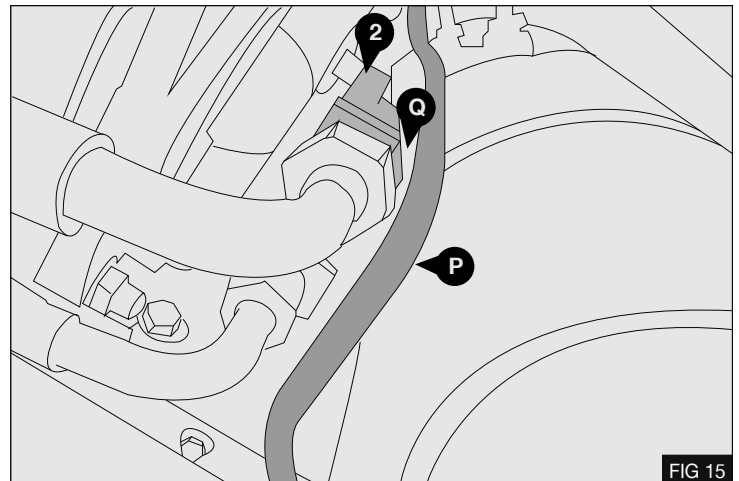
3. Secure the lower front mount of the alternator using the original bolt previously removed. Torque the upper and lower alternator mounting bolts to 45Nm / 33lb ft. Tighten the original bolt (L) at the rear of the alternator.
4. Refit the automatic tensioner (E) using the original fasteners (G) - Fig 13

**Vehicles with hydraulic PAS only:**

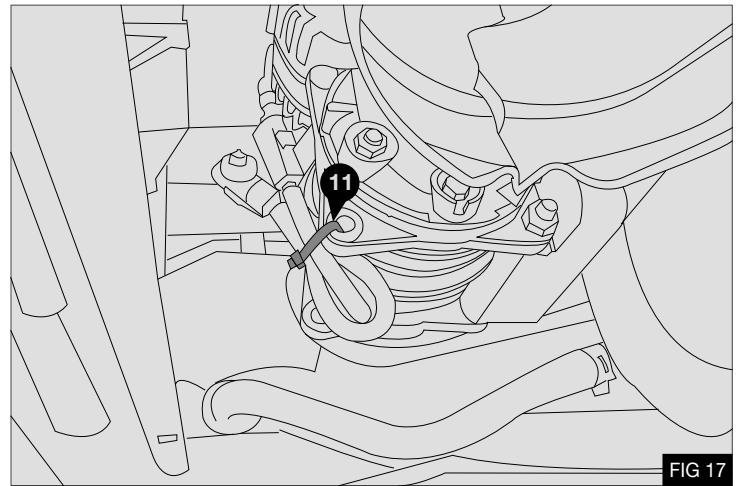
5. Refit idle pulley (B) in the original location at the front lower alternator position, torque securing bolt to 45Nm / 33lb ft - Fig 14.
6. Tighten the upper alternator front bolt (4) to 45Nm / 33lb ft.
7. Tighten original bolt (L) at the lower rear of the alternator.

**COMPRESSOR INSTALLATION****All Vehicles:**

1. Fit the supplied inverted manifold (2) to the compressor.
2. Temporarily install the compressor to the mount bracket (1). Check clearance from the manifold (2) to the exhaust sampling tube (P). File the manifold (2) as required to create a minimum of 5mm clearance (Q) - Fig 15
3. Install the compressor to the mount bracket (1) using the supplied bolts (3) fitted with washers (7) and nuts (6). Torque bolts (3) to 58 Nm / 43lb ft using a calibrated torque wrench - Fig 16



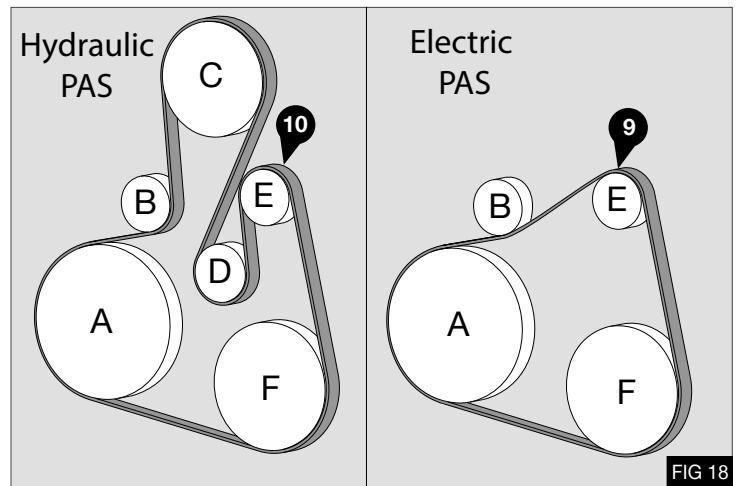
- Secure the original loom to the compressor ear as shown with the supplied cable tie (11) – Fig 17



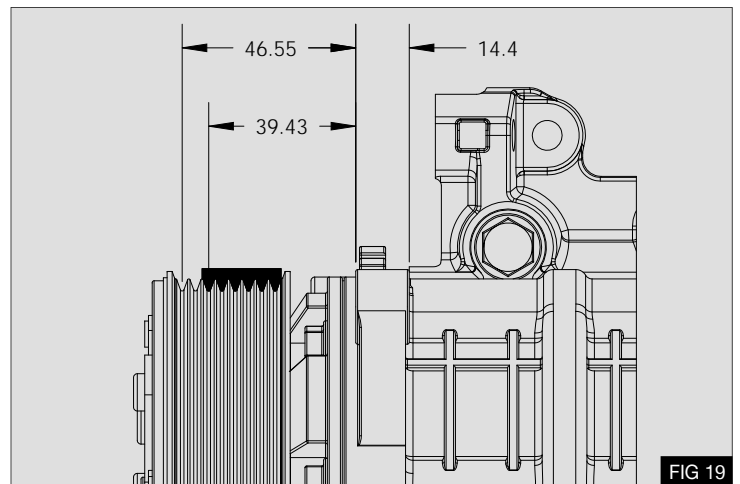
DRIVE BELT

- Install the supplied drive belt (10) on hydraulic PAS vehicles and drive belt (9) on electric PAS vehicles as shown opposite - Fig 18

- A. Crankshaft pulley
- B. Tensioner
- C. PAS pump
- D. Idle Pulley
- E. Alternator
- F. Compressor



Important: Fit the drive belt on the rear groove of the compressor clutch (Seltec / Que PV8) as shown opposite – Fig 19



FINISH

- Run the engine with the compressor clutch engaged for five minutes, Check all components.
- Install the supplied belt label in the engine bay.

(EN)

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