



Techni
ENGINEERING SOLUTIONS

IVECO DAILY MY2016
35-120, 35-140, 35-160 INC. HI-MATIC

CODE / CODICE: 0500.8282

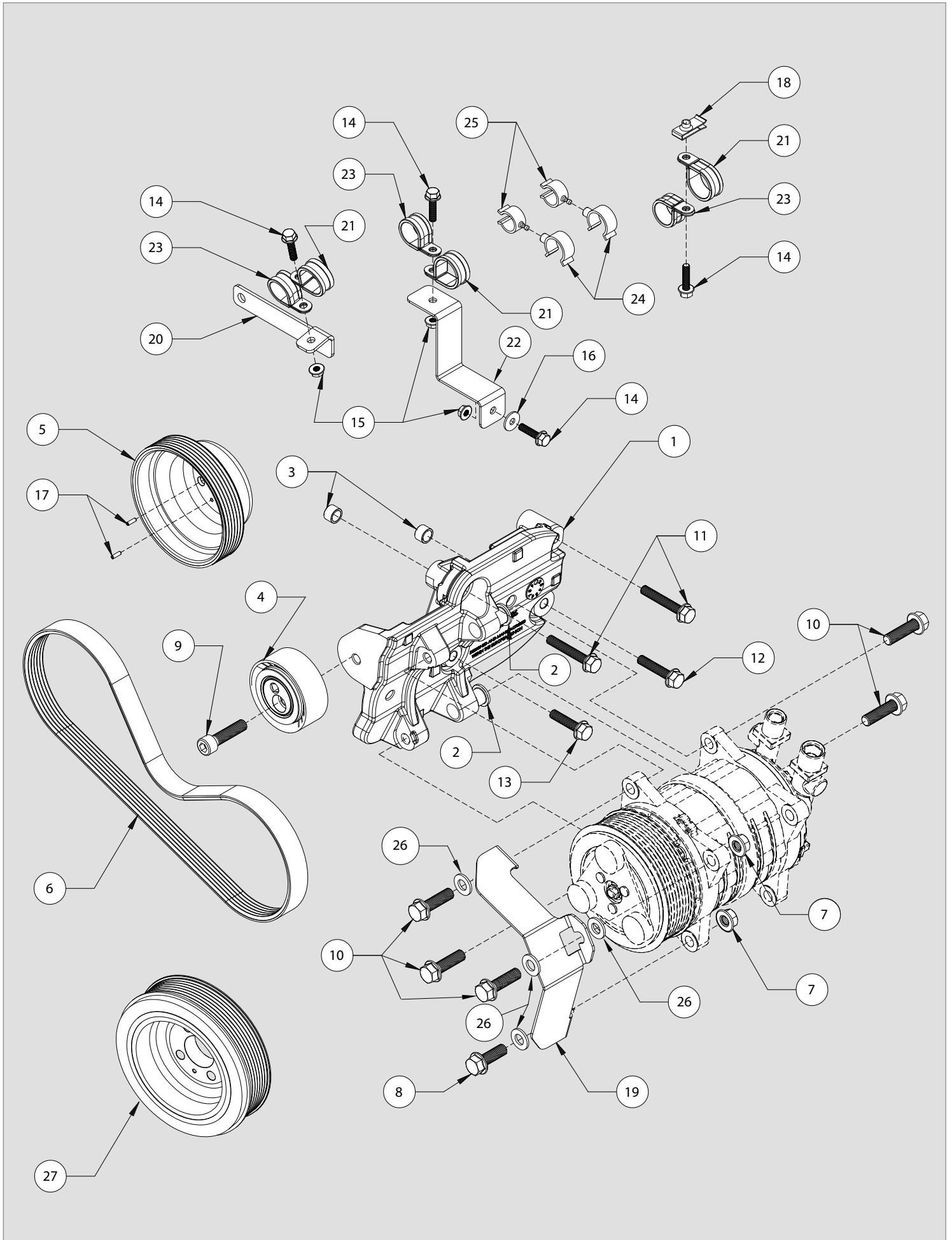
**COMPRESSOR / COMPRESSEUR / KOMPRES-
SOR / COMPRESSORE / COMPRESOR :
SELTEC SP13 / 15 / 16
QUE QP13 / 15 / 16**

**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 | 0440.5261 | CMB - Iveco Daily 2.3 E5 MY2012 | 1 | - |
| 2 | 1710.5083 | Spacer Bush - 14.8 OD x L23.5 ~ M10 | 2 | - |
| 3 | 2800.0291 | Dowel Bush | 2 | - |
| 4 | 1700.0401 | Eccentric Idle Pulley 6PK x 70 | 1 | - |
| 5 | 1701.5211 | Crankshaft Drive Pulley | 1 | - |
| 6 | 0820.6181 | Belt - Poly Groove 6PK 0870 | 1 | - |
| 7 | 2735.0071 | Durlok Hexagon Flange Nut - M10 : 1.50 | 2 | - |
| 8 | 2705.0491 | Hex flange bolt Durlok - M10 x 30 : 1.50 - 12.9 | 1 | - |
| 9 | 2705.5121 | Socket cap screw M10 x 40 : 1.50 - 12.9 | 1 | - |
| 10 | 2705.0241 | Hex flange bolt Durlok - M10 x 35 : 1.50 - 12.9 | 5 | - |
| 11 | 2704.0101 | Hex flange bolt - M8 x 50 : 1.25 - 10.9 | 2 | - |
| 12 | 2704.0201 | Hex flange bolt Durlok - M8 x 40 : 1.25 - 12.9 | 1 | - |
| 13 | 2704.0481 | Hex flange bolt Durlok - M8 x 35 : 1.25 - 12.9 | 1 | - |
| 14 | 2702.0111 | Hex flange bolt Durlok - M6 x 25 : 1.00 - 12.9 | 4 | - |
| 15 | 2732.0041 | Hexagon flange nut Durlok - M6 : 1.00 | 3 | - |
| 16 | 2806.0501 | M6 Penny Washer | 1 | - |
| 17 | 2762.0091 | Spring Pin ISO 8752 - 3 x 10 | 2 | - |
| 18 | 2732.0091 | Lug nut M6 | 1 | - |
| 19 | 3020.9413 | Belt Guard | 1 | - |
| 20 | 3020.5761 | Hose support bracket gearbox | 1 | - |
| 21 | 2771.1041 | P Clip 25mm | 3 | - |
| 22 | 3020.5751 | Hose Support Chassis | 1 | - |
| 23 | 2771.1031 | P Clip 19mm | 3 | - |
| 24 | 2771.1061 | Swivel clip female 90 deg 20.0 - 24.5 | 2 | - |
| 25 | 2771.1051 | Swivel clip male 18 - 20 | 2 | - |
| 26 | 2809.0011 | M10 Flat Washer | 4 | - |
| 27 | 1701.5181 | Crankshaft Pulley -7PK | 1 | - |

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

| SELTEC | TM13-HS | TM15-HS | TM16-HS |
|-------------|-----------|-----------|-----------|
| Comp No | 0381.0202 | 0381.0002 | 0381.0312 |
| Valeo No. | 488-45120 | 488-45120 | 488-46134 |
| 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 | Bolt | Bolt |

| QUE | QP13-HD | QP15-HD | QP16-HD |
|-------------|-----------|-----------|-----------|
| Comp No | 0391.0202 | 0391.0002 | 0391.0312 |
| Que No. | QP15-1302 | QP15-1171 | QP16-1581 |
| 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 | 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.

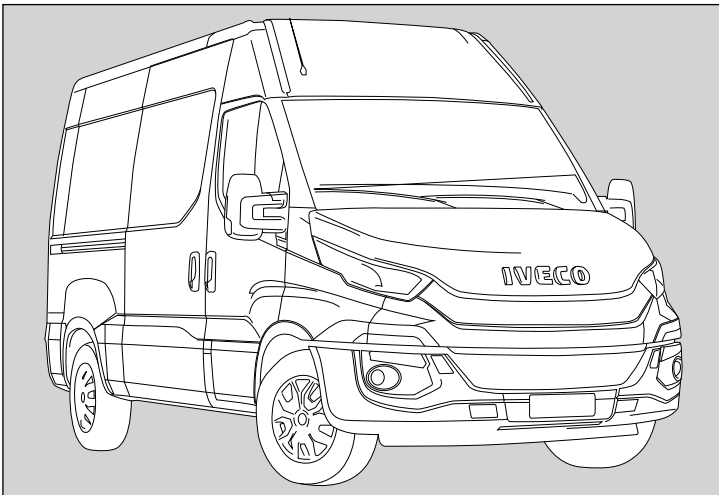
VALORI STANDARD DI SERRAGGIO PER DISPOSITIVI DI FISSAGGIO

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 | Iveco |
| Make | Daily MY2016 |
| Model | 35-120, 35-140, 35-160 inc. Hi-Matic |
| Engine CC | 2.3L |
| Engine Details | Euro 6 F1A - 116/136/156 |
| Year | 2016 |
| Chassis Nos. | N/A |
| LHD | YES |
| RHD | YES |
| PAS | YES |
| A/C | NO |
| Voltage | 12v |

KIT DETAILS

| | |
|-------------------|------------------------|
| Kit Part No. | 0500.8282 |
| Description | Standard Kit |
| Compressor RPM | 3861/3564 @ Max Engine |
| | Power Output |
| Fitting Time | 45 Minutes |
| Suction Fitting | 90° (Max Height 48 mm) |
| Discharge Fitting | 90° (Max Height 41 mm) |
| Belt Type | 6PK 870 |
| Belt Part No. | 0820.6181 |

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.

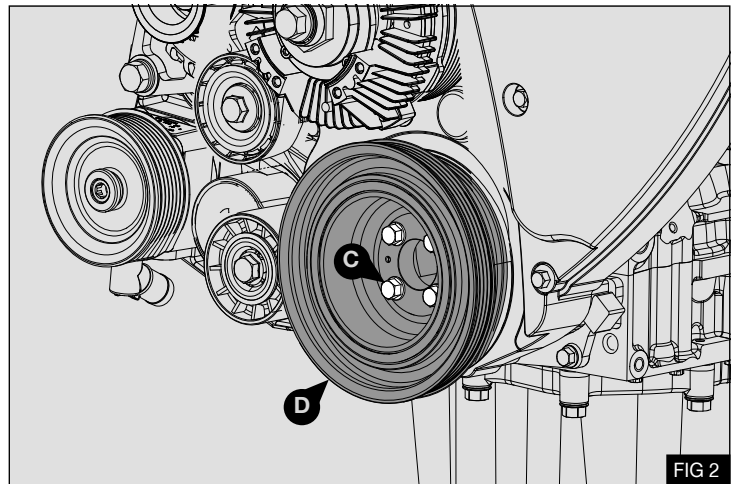
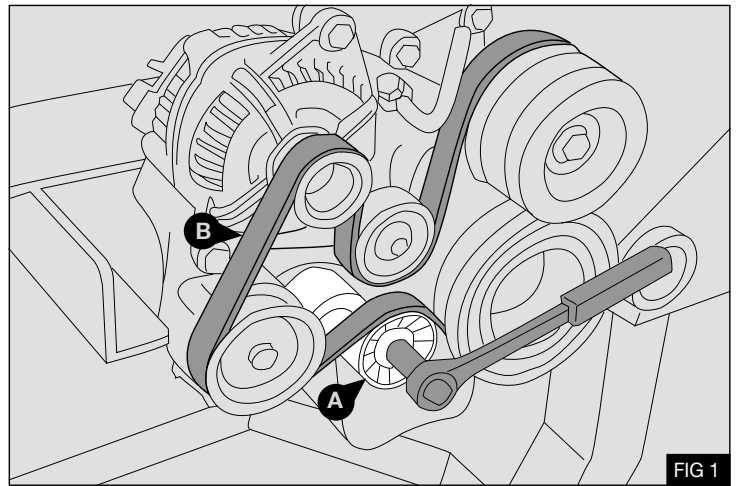
NB: This calls awareness to make the job easier or gives useful information.

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.

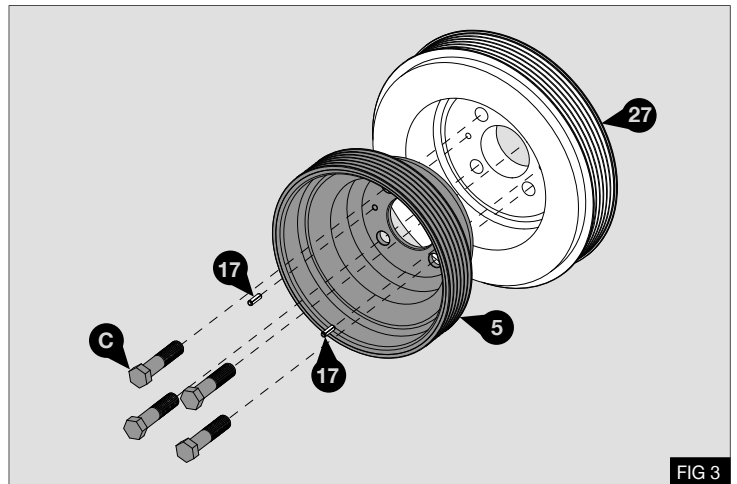
Dismantle the following:

1. Remove the engine under panel 2 x M6 Bolts and 4 x M8 self tapping screws.
2. Using a suitable tool rotate the automatic belt tensioner pulley (A) clockwise - Fig.1
3. Remove the original manufacturers poly groove drive belt (B) noting the original routing, if different from the diagram shown in Fig.1 report your findings to your Kit/System supplier before proceeding.
4. Remove and retain the four crankshaft pulley bolts (C) - Fig 2
5. Remove and discard the crankshaft damper (D) from the engine.



CRANKSHAFT PULLEY INSTALLATION

1. Align the supplied crankshaft pulley (5) with the pre drilled holes in the crankshaft damper (27).
2. Fit the supplied roll pins (17) through the supplied pulley (5) into the crankshaft damper (27) - Fig 3

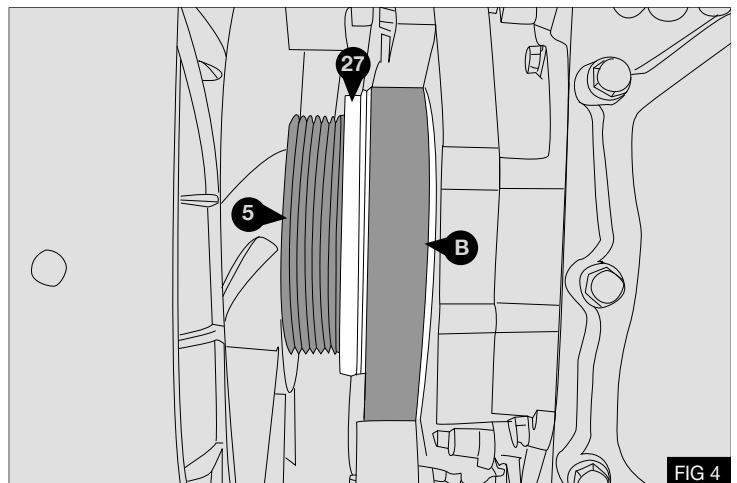


3. Fit crankshaft damper (27) and supplied compressor drive pulley (5) using original bolts (C) - Fig 4

Torque original bolts (C) to 30Nm / 22lb.ft.

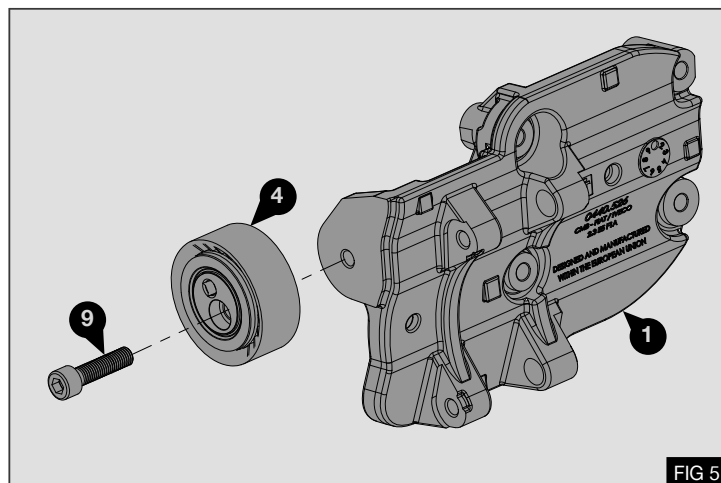
Warning: Follow the procedure carefully to insure correct positioning of the compressor drive pulley.

4. Re-fit the original Alternator, Power steering & Fan Belt (B) into position shown in Fig 1



MOUNT BRACKET INSTALLATION

1. Fit the supplied Eccentric pulley (4) to the mount bracket (1) using bolt (9) M10 x 40, do not tighten at this stage - Fig 5

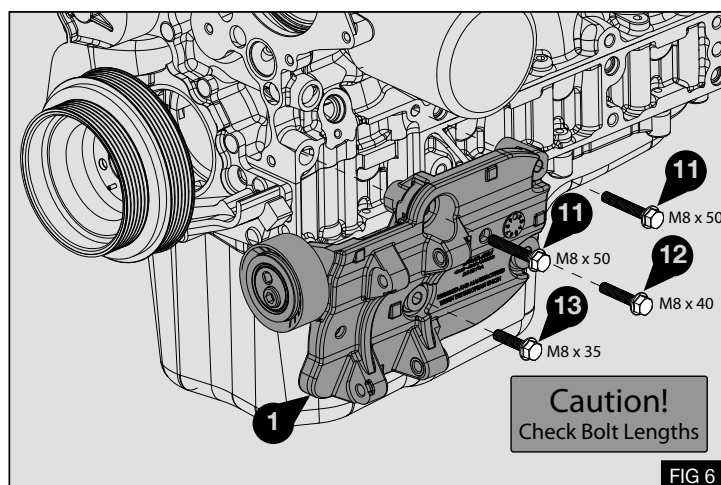


2. Fit the supplied compressor mount bracket (1) to the engine using the two bolts (11) M8 x 50 and one bolt (12) M8 x 40 and bolt (13) M8 x 35 - Fig 6

Torque bolts (11) (12) & (13) to 25Nm / 18Lb ft

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

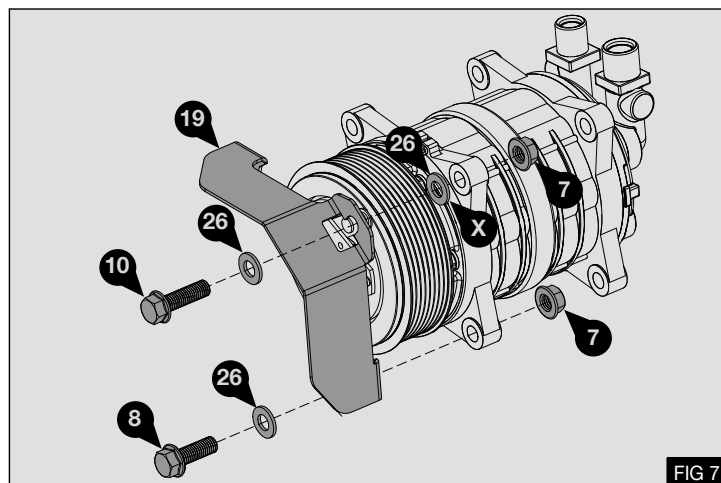
Warning: Fit the correct length bolts into the compressor mounting bracket (1)



3. Fit the supplied clutch belt guard (19) to the compressor using the supplied bolts (8) (10) M10 x 30 & M10 x 35, M10 nuts (7) and washers (26) do not tighten bolts (8) (10) at this stage - Fig 7

Warning: Ensure washer (26) is positioned at point (X) between the guard and the compressor ear

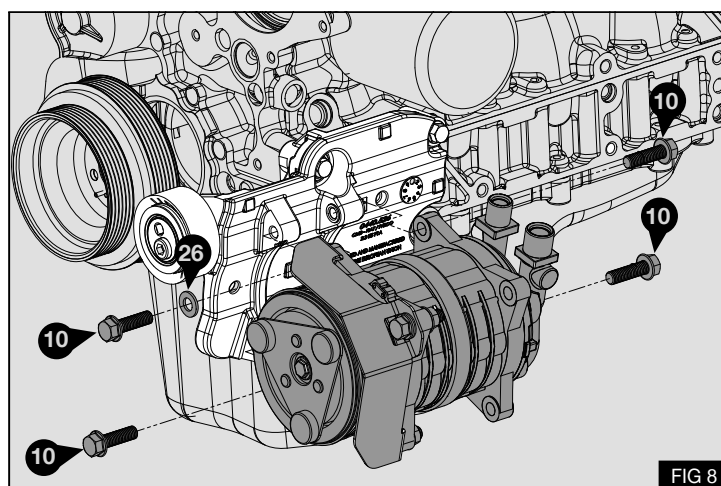
Warning: If a Techni coil is fitted to the compressor discard washer (26) at point (X)



4. Fit the Compressor to Mount Bracket (1) using the four bolts (10) M10 x 35 and washer (26) in position shown - Fig 8

Torque bolts (10) to 50Nm / 37lb.ft.

5. Tighten the bolts (8) (10) securing the belt guard (19) Torque bolts to 50Nm / 37lb.ft.



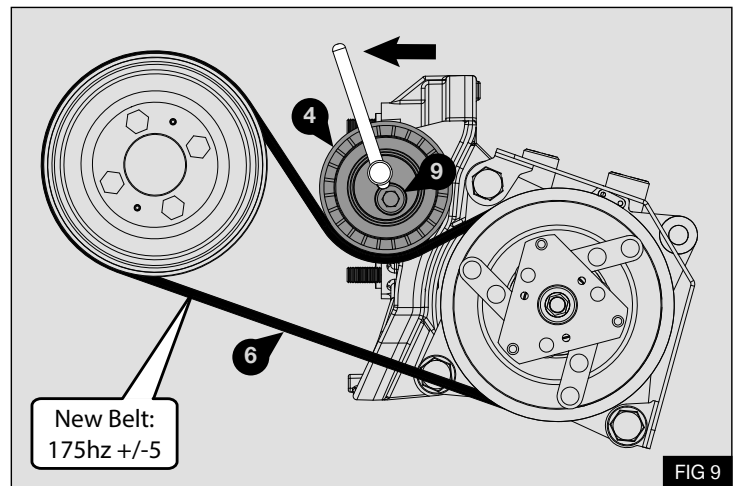
DRIVE BELT

1. Fit the Compressor Drive Belt (6) taking care to position the ribs of the belt in the respective grooves of the pulleys - Fig 9/10

NB: Where applicable and dependent on the compressor model, align the supplied drive belt by installing in the correct clutch groove - Fig.10

Seltec PV8 has the same gauge line (46.55) as the Sanden PV6 & PV7, belt is fitted to front groove.

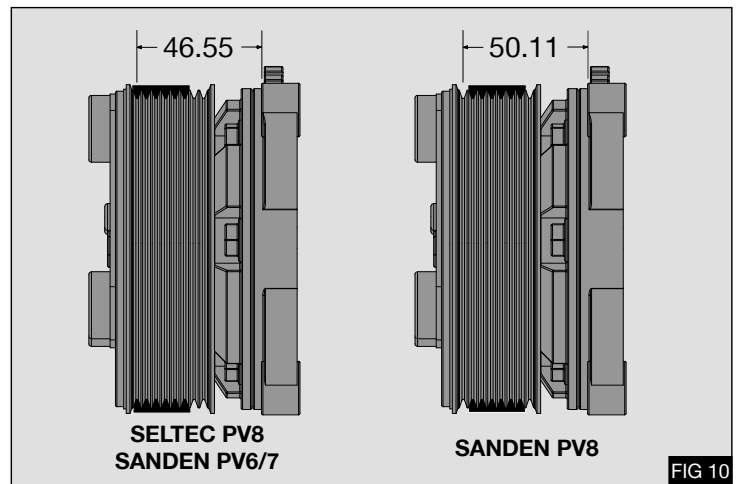
Sanden PV8 has a unique gauge line (50.11) in most cases, belt is fitted to second groove. If in any doubt, please check with your compressor supplier



2. Tension the drive belt to correct tension (see table) using a suitable tool (1/4" Drive), tighten bolt (9), to lock eccentric pulley.

Torque bolt (9) to 50 Nm / 37 lb ft.

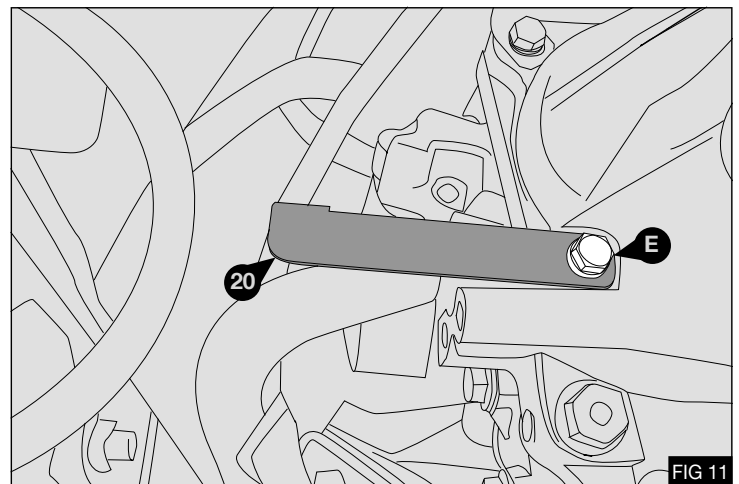
Note: If a Frequency gauge is being used, tension must be measured on the span indicated.



| BELT TENSION TABLE | | |
|--------------------|-----------|---|
| Belt | Belt Age | Belt Tension Using the Belt Tension Gauge |
| 6PK | New Belt | 66 - 84 kg |
| 6PK | Used Belt | 54 - 60 kg |

HOSE SUPPORT INSTALLATION

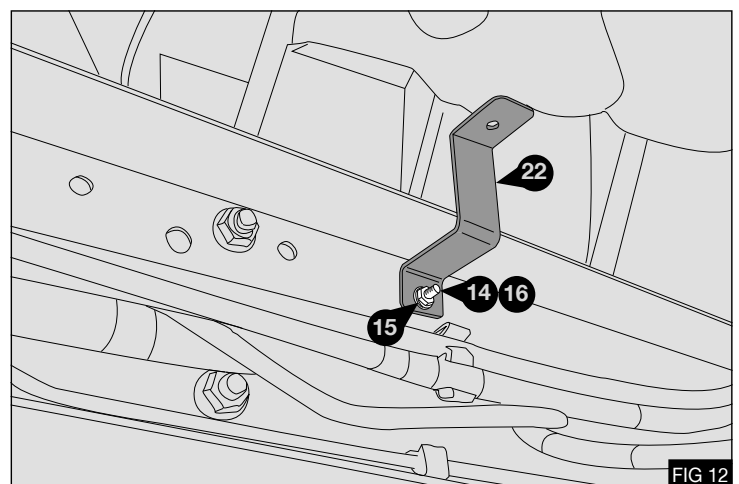
1. Temporarily remove the bolt (E) securing the starter motor - Fig 11
2. Fit the hose support bracket (20) and secure with the original bolt (E) - Fig 11
3. Torque bolt (E) to 30 Nm / 22 lb ft.



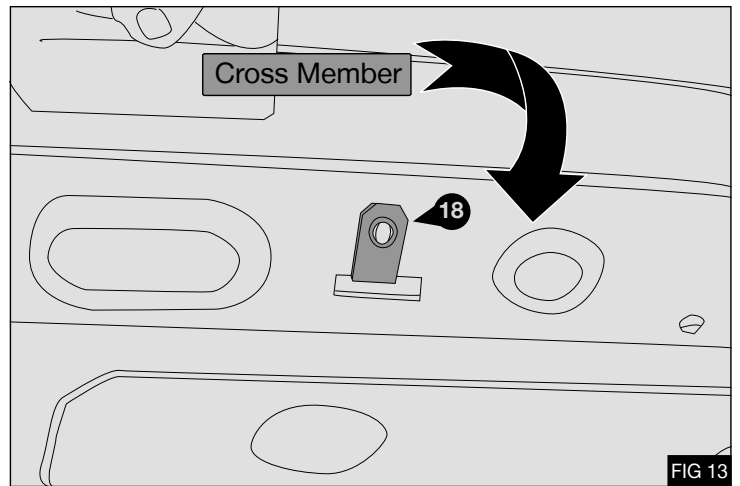
4. Secure the hose support bracket (22) to the original hole in the chassis using bolt (14) M6 x 25 with washer (16) and nut (15) - Fig 12

Torque bolt (14) to 10 Nm / 7.5 lb ft.

NB: Position washer (16) to the outside of the chassis.



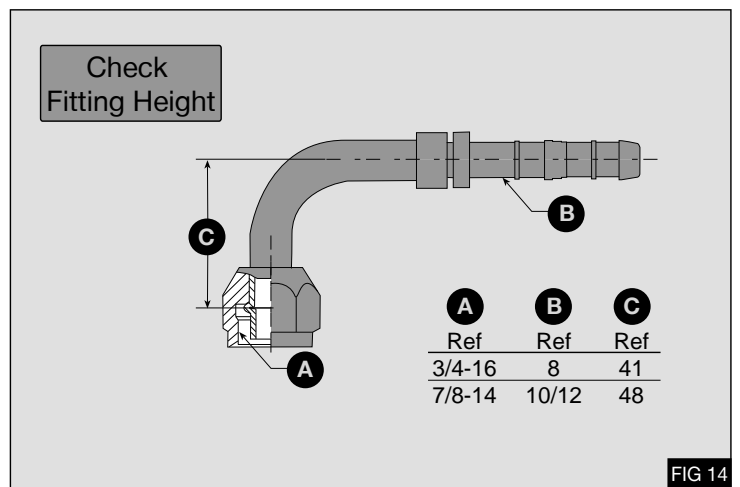
5. Insert the supplied M6 lug nut (18) in to the hole provided in the chassis cross member at the position shown in Fig 13



HOSE INSTALLATION

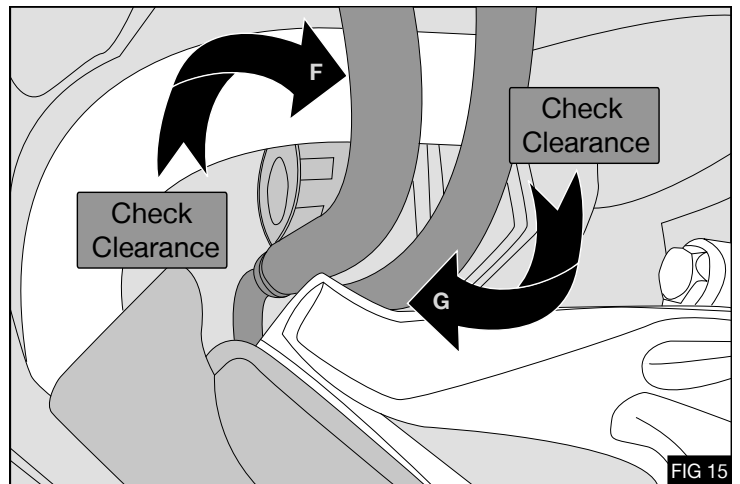
1. Check compressor hose fitting heights - Fig 14

Warning: Check compressor hose fitting heights Discharge
 © Max = 41mm, Suction © Max = 48mm - Fig 14

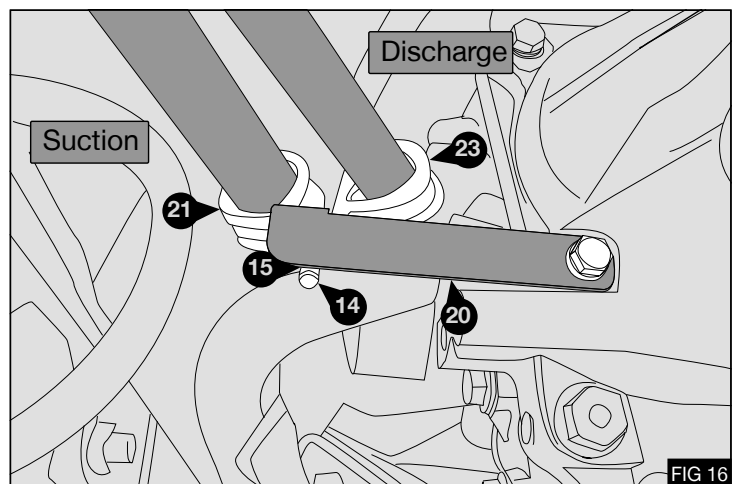


2. Install the refrigerant fittings to the compressor and position hoses between the engine mount and the bottom radiator hose as shown in Fig 15

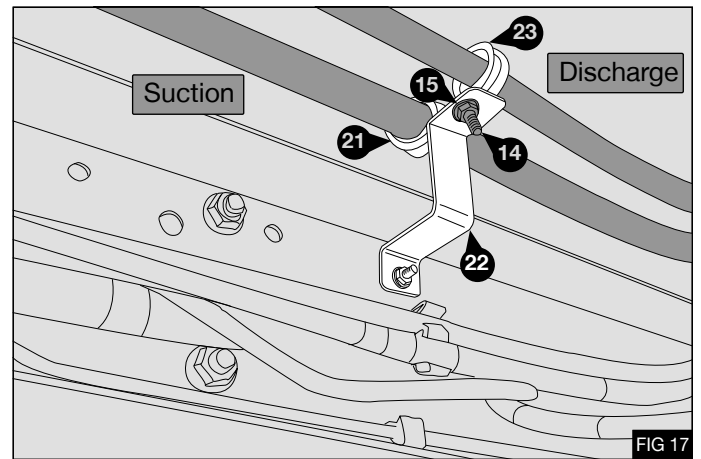
Warning: Position Suction and Discharge hoses, to achieve a minimum clearance of 20 mm at points (F), (G) - Fig 15



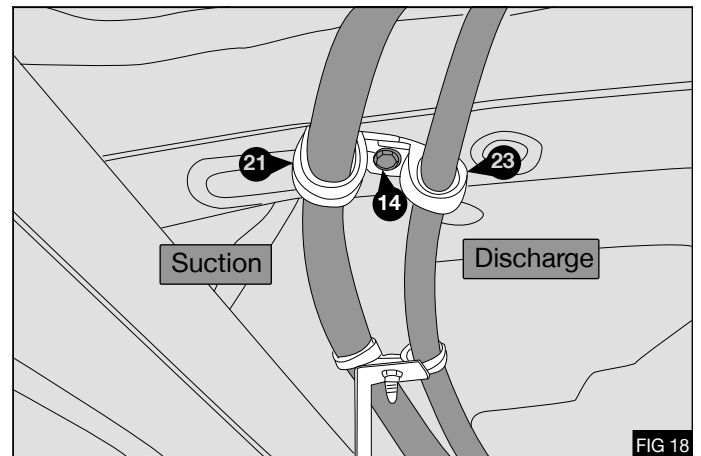
3. Install the refrigerant hoses as shown in Fig 16 and secure using the supplied hose clamps (21) & (23) with bolt (14) M6 x 25 and M6 nut (15) - Fig 16



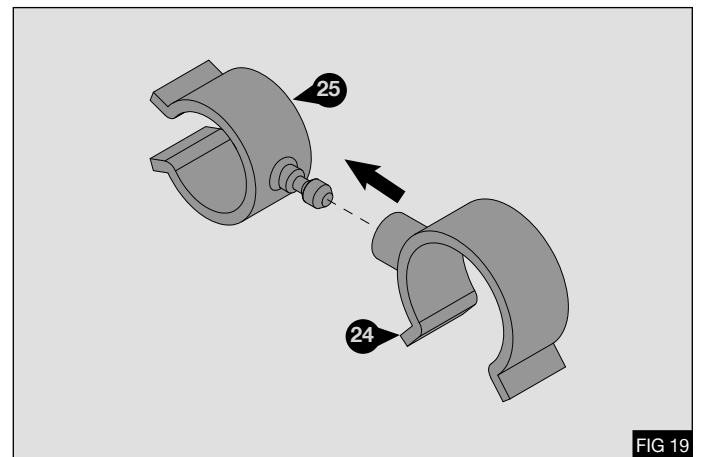
4. Install the refrigerant hoses as shown in Fig 17 and secure using the supplied hose clamps (21) & (23) with bolt (14) M6 x 25 and M6 nut (15) - Fig 17



5. Install the refrigerant hoses as shown in Fig 18 and secure using the supplied hose clamps (21) & (23) with bolt (14) - Fig 18

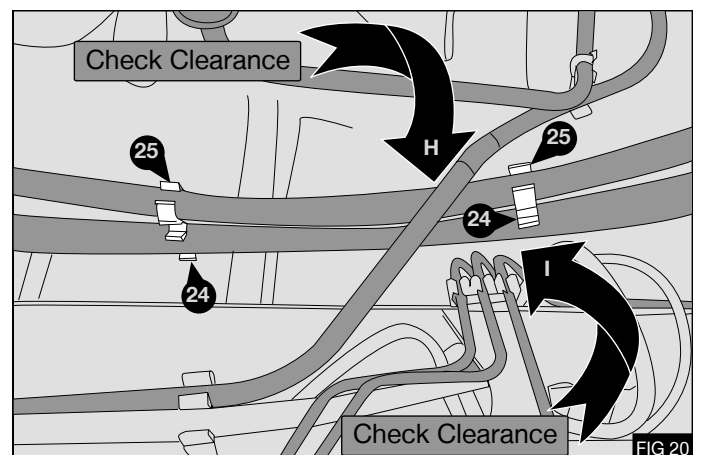


6. Connect the supplied pipe clips (24) & (25) together as shown in Fig 19



7. Join Suction and Discharge hoses together at points shown using the pipe clips (24) & (25) previously joined together - Fig 20

Warning: Position hoses, brackets and pipe clips to achieve a minimum clearance of 30 mm at points (H), (I) and to all other components.

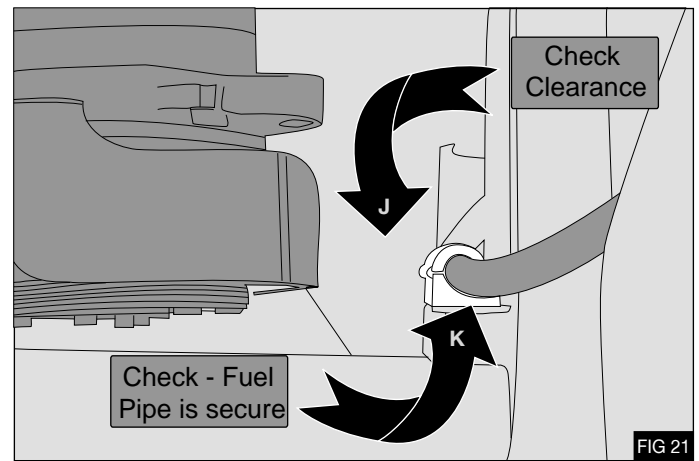


POST INSTALLATION

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.
2. Check Iveco fuel pipe is secure in its original clips and there is a minimum of 50 mm clearance between the compressor and the fuel pipe at point J.- Fig 21

Warning: Check clearance at point J, minimum clearance 50 mm - Fig 21

Warning: Check fuel pipe clip at point K is secure - Fig 21



(EN)

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