



**Techni**  
ENGINEERING SOLUTIONS

**ISUZU F110.210 - 2015MY>**  
**5.2L EURO 6 (VI) 4HK1E6S 154KW / 210PS**

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**CODE / CODICE: 0500.8072**

**COMPRESSOR / COMPRESSEUR / KOMPRES-  
SOR / COMPRESSORE / COMPRESOR :  
SELTEC TM15 / 16  
QUE QP15 / 16**

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**FITTING INSTRUCTIONS  
EINBAUANLEITUNGEN  
INSTRUCTIONS POUR LE MONTAGE  
ISTRUZIONI DI MONTAGGIO  
INSTRUCCIONES DE MONTAJE**

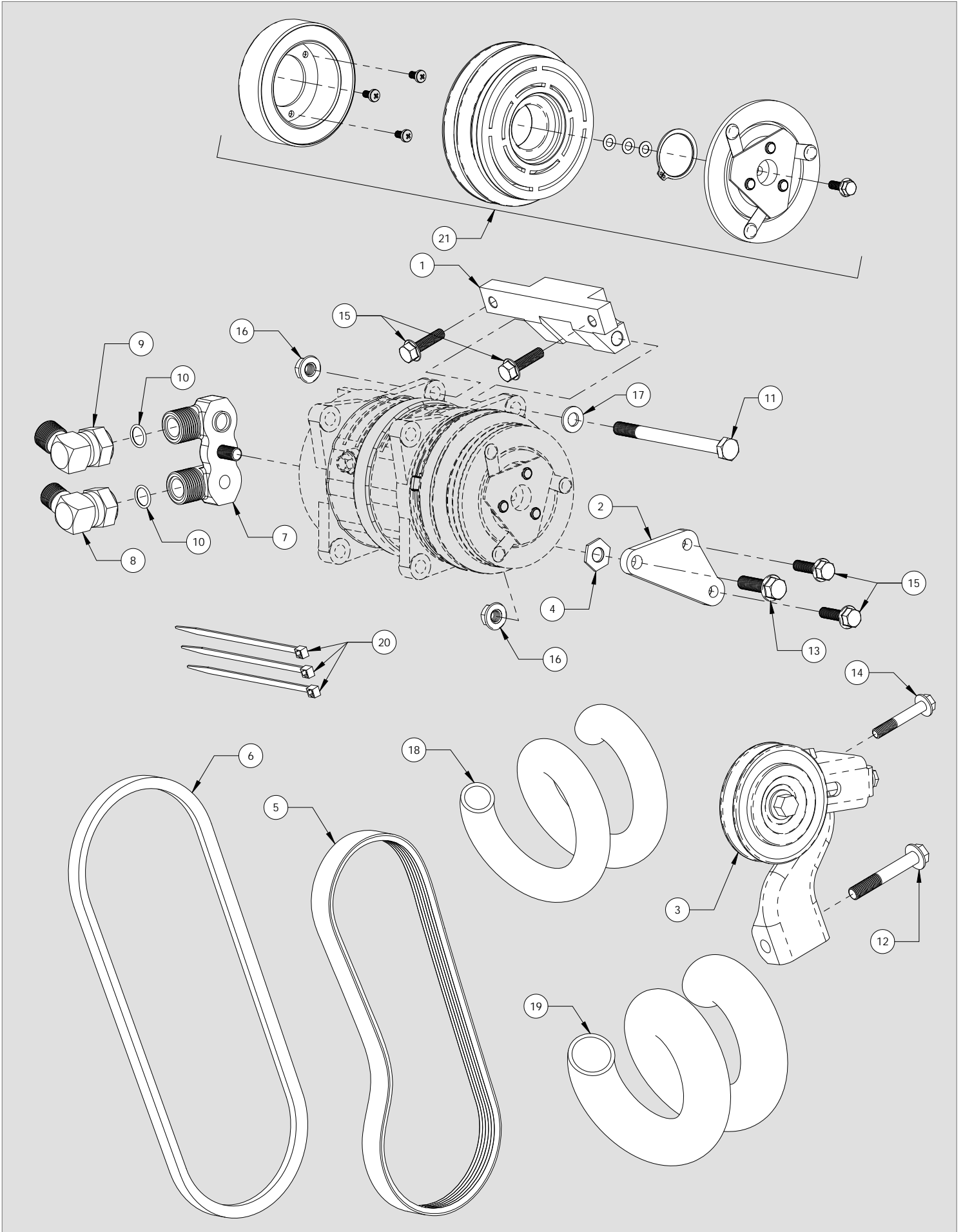
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**PARTS VIEW / VUE ÉCLATÉE / TEILEANSICHT / VISTA PARTA / IMÁGENES DE LAS PIEZAS**



## PARTS LIST / NOMENCLATURE / TEILELISTE / ELENCO DELLE PARTI / LISTA DE PIEZAS

ITEM	CODE / CODICE / KODE / CODIGO	DESCRIPTION / DESCRIZIONE / BESCHREIBUNG / DESCRIPCION	QTY.	COMMENTS
1	3020.6281	Top Support Bracket	1	
2	3020.6571	Support Plate - Isuzu F110.210	1	
3	1705.5111	Belt Tensioner Assembly - Isuzu 4HK1	1	
4	2803.6191	Spacer - 22AF x 11ID x 2.3L	1	
5	0820.7601	Belt - Poly Groove 7PK 1113	1	
6	0800.5161	Drive Belt - A Section 13A 1600	1	
7	0425.0551	Manifold Sanden FLX7 Vertical 1x14 Tube O	1	
8	1515.5011	Adaptor - 90deg Tube-O to 3/4-16 UNF Male Insert O-ring	1	
9	1520.5011	Adaptor - 90deg Tube-O to 7/8-14 UNF Male Insert O-ring	1	
10	1500.5112	O-Ring HNBR 14 ID x 2.0 CS	2	
11	2705.0531	Hexagon Head Bolt - M10 x 130 : 10.9	1	
12	2705.5321	Hex flange bolt - M10 x 65 : 1.5 - Gr8	1	
13	2705.0241	Hex flange bolt Durlok - M10 x 35 : 1.50 - 12.9	1	
14	2704.5711	Hex flange bolt - M8 x 50 : 1.25 - Gr8	1	
15	2704.0091	Hex flange bolt Durlok - M8 x 30 : 1.25 - 12.9	4	
16	2735.0071	Durlok Hexagon Flange Nut - M10 : 1.50	2	
17	2809.0011	Washer M10 Flat DIN 125 - A 10.5	1	
18	1430.0142	Heat Shield Sleeve ID20, L0.5	1	
19	1430.0162	Heat Shield Sleeve ID30, L 0.5	1	
20	2763.0051	Cable Tie 4.8 x 370 - Black	3	
21	0410.5152	Clutch Que/Seltec QP/TM08/13/15/16 - 2A SL 125OD 24V - Mod	1	

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

SELTEC	-	TM-15 HS	TM-16 HS
Comp No	-	0381.5582	0381.5592
Valeo No.	-	-	-
Mounting	-	Ear	Ear
Rotor	-	1A	1A
GL	-	23.6	23.6
Armature	-	SL	SL
Diameter	-	125	125
Voltage	-	24	24
Orientation	-	V	V
Fitting	-	1 x 14	1 x 14
Manifold	-	Bolt	Bolt

QUE	-	QP-15 HD	QP-16 HD
Comp No	-	0391.5582	0391.5592
Que No.	-	-	-
Mounting	-	Ear	Ear
Rotor	-	1A	1A
GL	-	23.6	23.6
Armature	-	SL	SL
Diameter	-	125	125
Voltage	-	24	24
Orientation	-	V	V
Fitting	-	1 x 14	1 x 14
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.

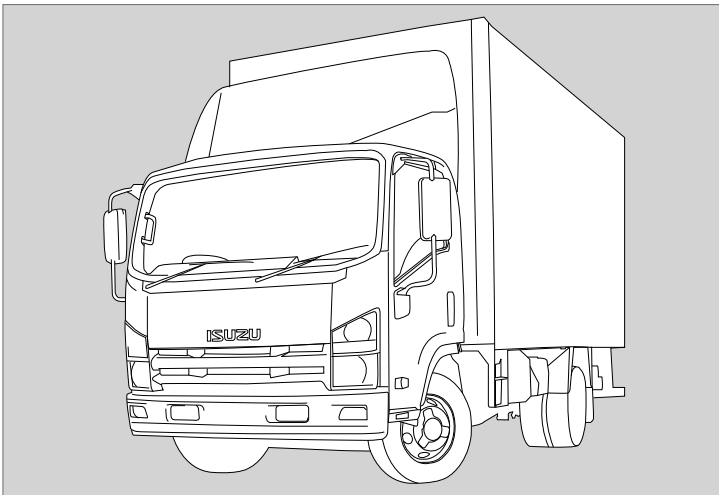
**VALORI STANDARD DI SERRAGGIO PER DISPOSITIVI DI FISSAGGIO**

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	Isuzu
Model	F110.210
Engine CC	5.2 Litre
Engine Details	Euro 6 (VI) 4HK1E6S 154kW / 210PS
Year	2015> (10th digit of Chassis number F>)
Chassis Nos.	N/A
LHD	YES
RHD	YES
PAS	YES
A/C	NO
Voltage	24v

## KIT DETAILS

Kit Part Number	0500.8072
Description	Speed Reduction Kit
Compressor RPM	3360 @ Max engine power output
Fitting Time	60 Minutes
Suction Fitting	Straight
Discharge Fitting	Straight
Belt Type	13A 1600 / 7PK 1113
Belt Part Number	0800.5161 / 0820.7601
Note	Compatible with Easyshift

## 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.

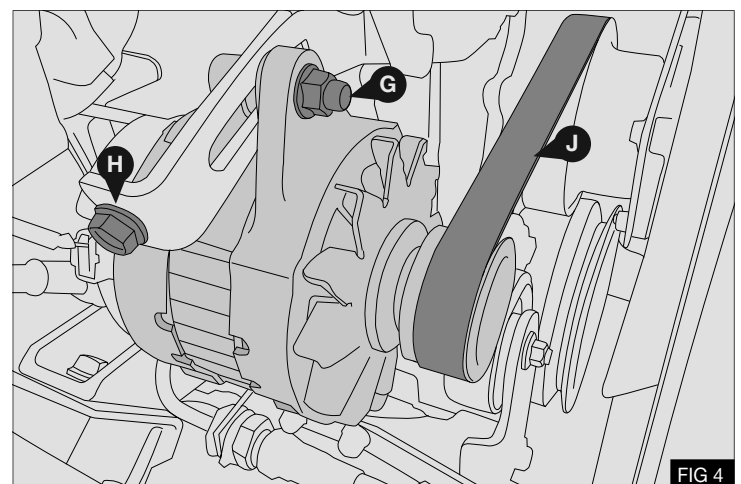
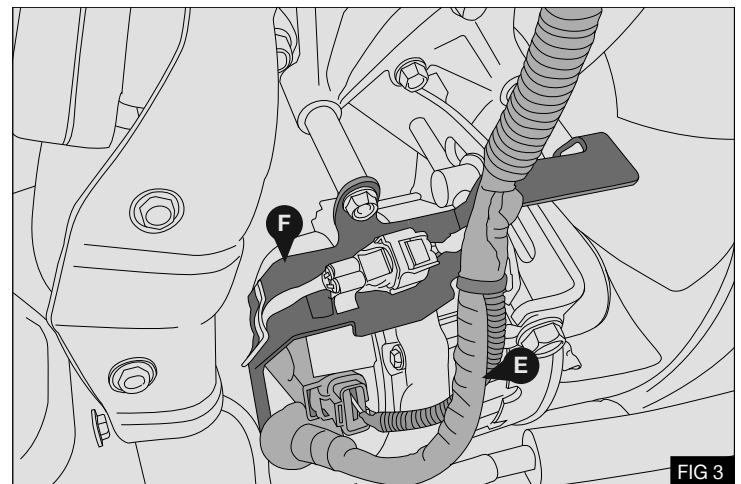
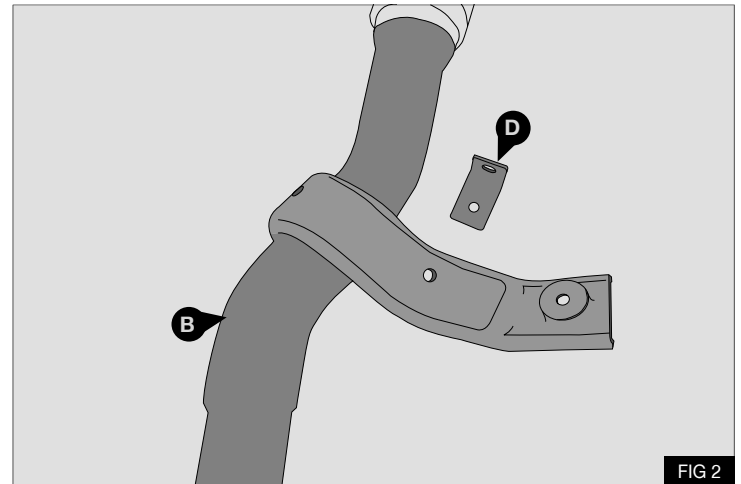
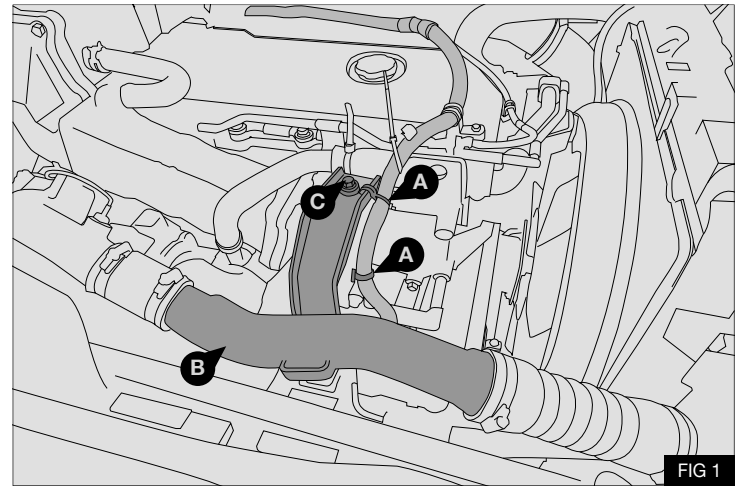
**NB:** This calls awareness to make the job easier or gives useful information.

**PRE-INSTALLATION**

**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**

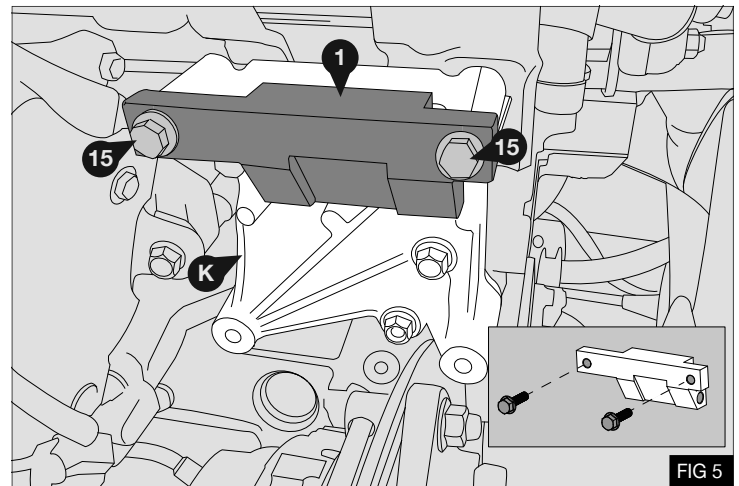
1. Disconnect battery
2. Remove the wiring loom from the intercooler hose at points (A) - Fig 1
3. Remove the intercooler hose (B) and retain M8 fastener (C) to engine - Fig 1
4. Remove the loom support bracket (D) from the main intercooler hose (B). A suggested method to do this is to drill the spot weld - Fig 2
5. Disconnect the wiring loom (E) from the wiring support bracket (F) - Fig 3
6. Remove and discard the wiring support bracket (F) and any associated bolts and spacers - Fig 3
7. Measure and record the original drive belt tension - Fig 4
8. Loosen the upper alternator securing nut (G) and the lower alternator mount bolt (not shown) - Fig 4
9. Loosen the draw bolt (H) - Fig 4
10. Remove and discard the original drive belt (J) - Fig 4





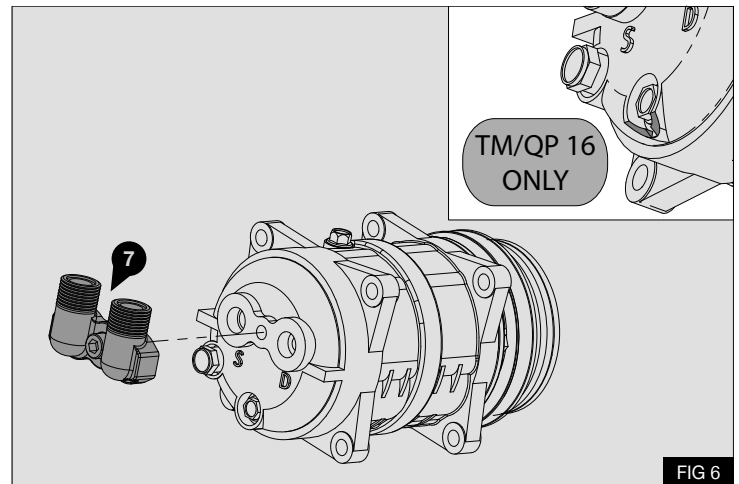
11. Secure the top support bracket (1) to the original bracket (K) using 2x M8x30 bolts (15).

Torque bolts (15) to 29 Nm / 21 lb-ft - Fig 5



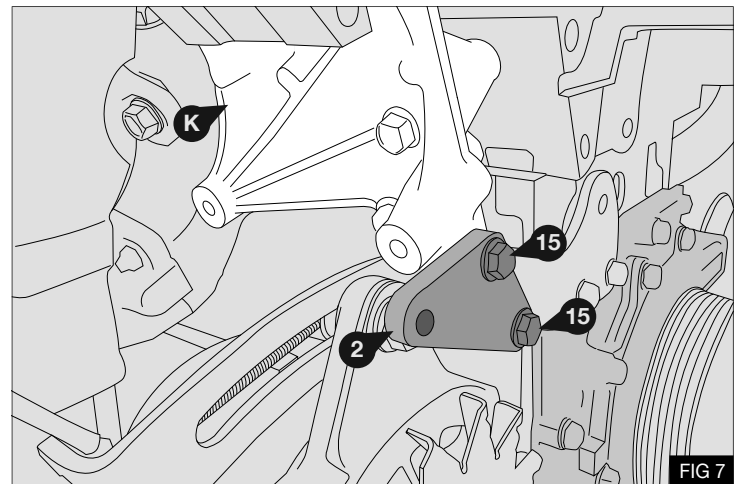
12. Install the supplied manifold (7) to the compressor - Fig 6

**Note:** On TM/QP16 only, the compressor oil drain housing needs to be modified (filed) as shown opposite.



13. Fit the supplied support plate (2) to the original engine bracket (K) as shown opposite using bolts (15).

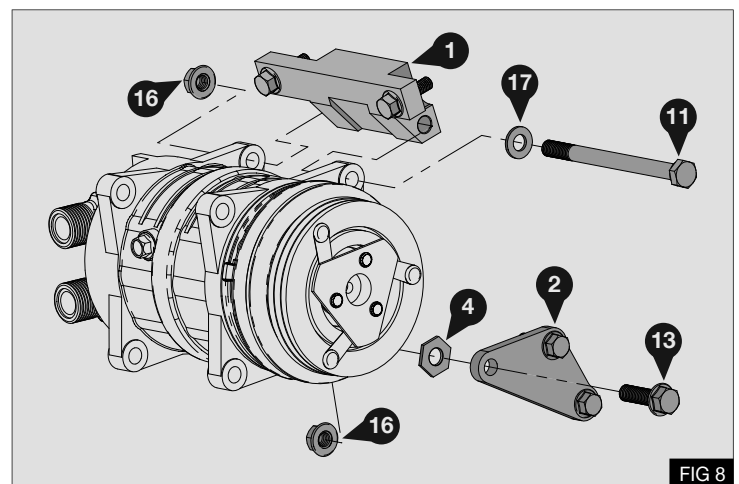
Torque bolts (15) to 29 Nm / 21 lb-ft - Fig 7



## COMPRESSOR INSTALLATION

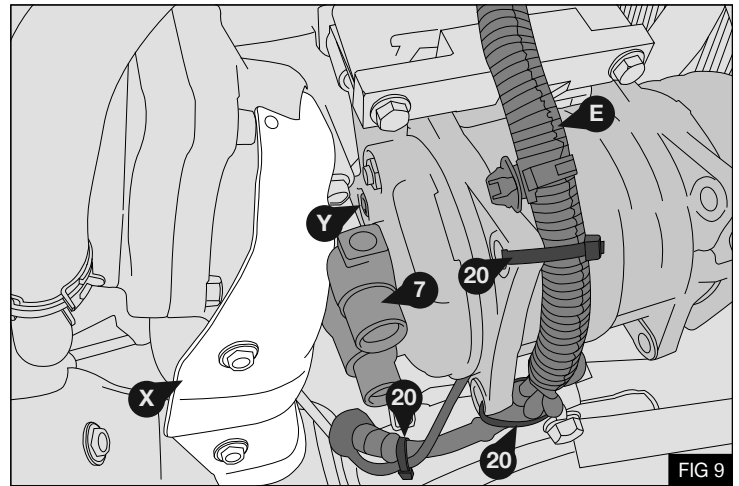
1. Fit the compressor assembly to the top support bracket (1) using bolt (11) with washer (17) and nut (16) - Fig 8
2. Place the 2.3mm Hex spacer (4) between the plate (2) and front of the ear. Secure the lower front ear to the support plate (2) using M10x35 bolt (13) with nut (16) - Fig 8

Torque bolts (11) and (13) to 58 Nm / 42.8 lb-ft



**Note:** Check clearance between the compressor manifold (7) and the heat shield (X). A minimum of 5mm is required. If necessary mark the heat shield, remove the compressor and re-form the heat shield to give the required clearance.

3. Fasten the original loom assembly (E) to the compressor using the 3x supplied cable ties (20) - Fig 9



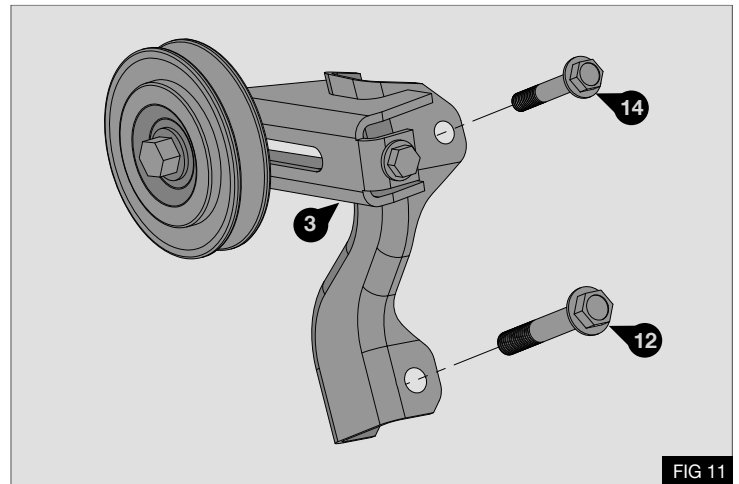
### TENSIONER INSTALLATION

1. Remove and discard the M8 bolt (N) from the thermostat housing - Fig 10
2. Note the lower position (P) for tensioner mounting - Fig 10



3. Install the tensioner assembly (3) using bolts (12) and (14) - Fig 11

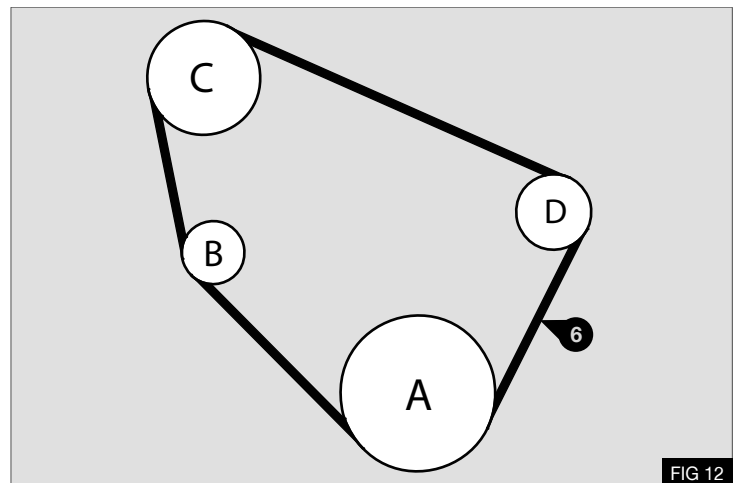
Torque bolt (12) to 38 Nm / 28 lb-ft,  
Torque bolt (14) to 20 Nm / 14.8 lb-ft



### DRIVE BELT INSTALLATION

1. Feed the supplied drive belt (6) over the viscous fan and install the drive belt to the pulley on the compressor as shown opposite - Fig 12

A – Crankshaft Pulley (Rear Groove)  
B – Alternator (Rear Groove)  
C – Compressor  
D – Tensioner



**Belt Tension Table**

Belt Age	Belt Tension
New Belt	55 - 65 kg
Used Belt/Re-tension	40 - 45 kg

- Tension the drive belt using the adjuster bolt **Q**. When the correct tension (new belt level) has been achieved (see table above). Torque the tensioner lock bolt **R** to 27Nm / 20lb-ft. using a calibrated torque wrench - Fig 13

**Note:** A new drive belt must be tensioned to the “new belt level” in order to mesh correctly into the pulley groove. The belt tension will then fall after a running in period.

- Re-fit the supplied 7PK **5** drive belt to the alternator and tension - Fig 14

A - Crankshaft Pulley  
 B - Idle Pulley  
 C - Alternator  
 D - Fan

**Note:** Tension the belt to the same level as measured in Fig 4

- Fit the supplied O-rings **10** to the 90 degree adaptors **9** and **8** and then install adaptors to the compressor manifold **7** - Fig 15

## FINISH

- Refit the intercooler hose
- Run the engine with the compressor clutch engaged for five minutes, Check all components.
- Re-check the belt tension adjust if required.
- Install the supplied belt label in the engine bay.

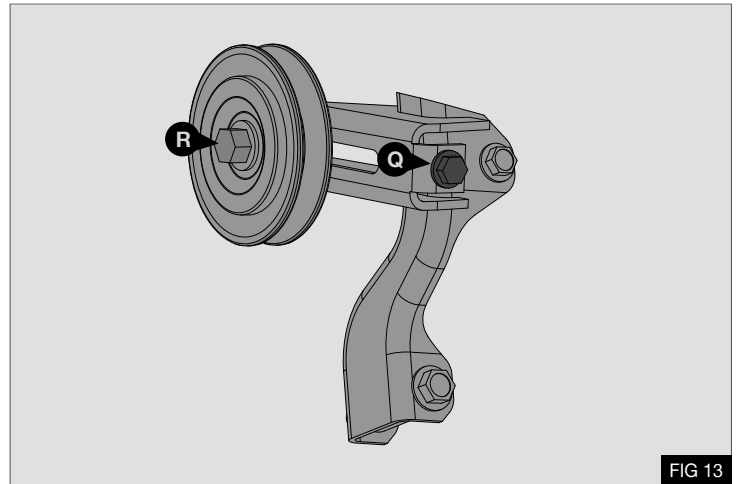


FIG 13

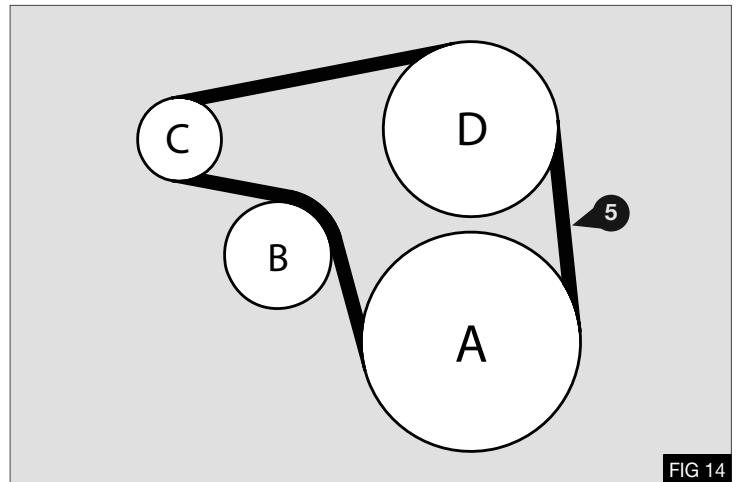


FIG 14

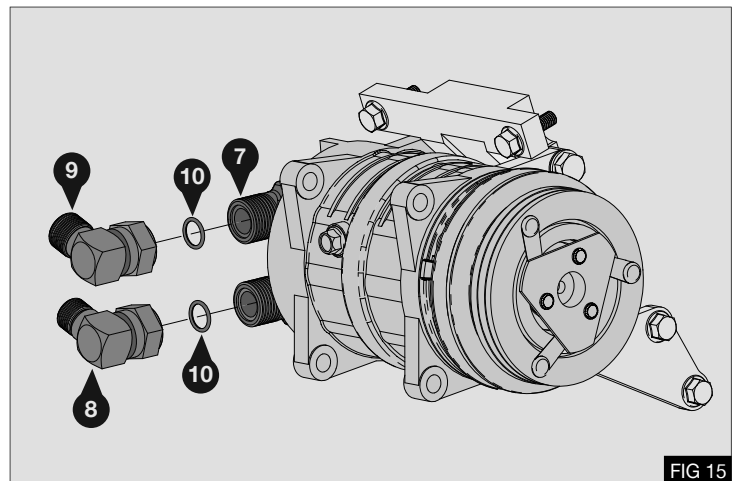


FIG 15

(EN)

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