



Techni
ENGINEERING SOLUTIONS

VW TRANSPORTER 2.0L TDI EURO 6 PLUS
T26/T27/T28/T30/T32

CODE / CODICE: 0500.8022

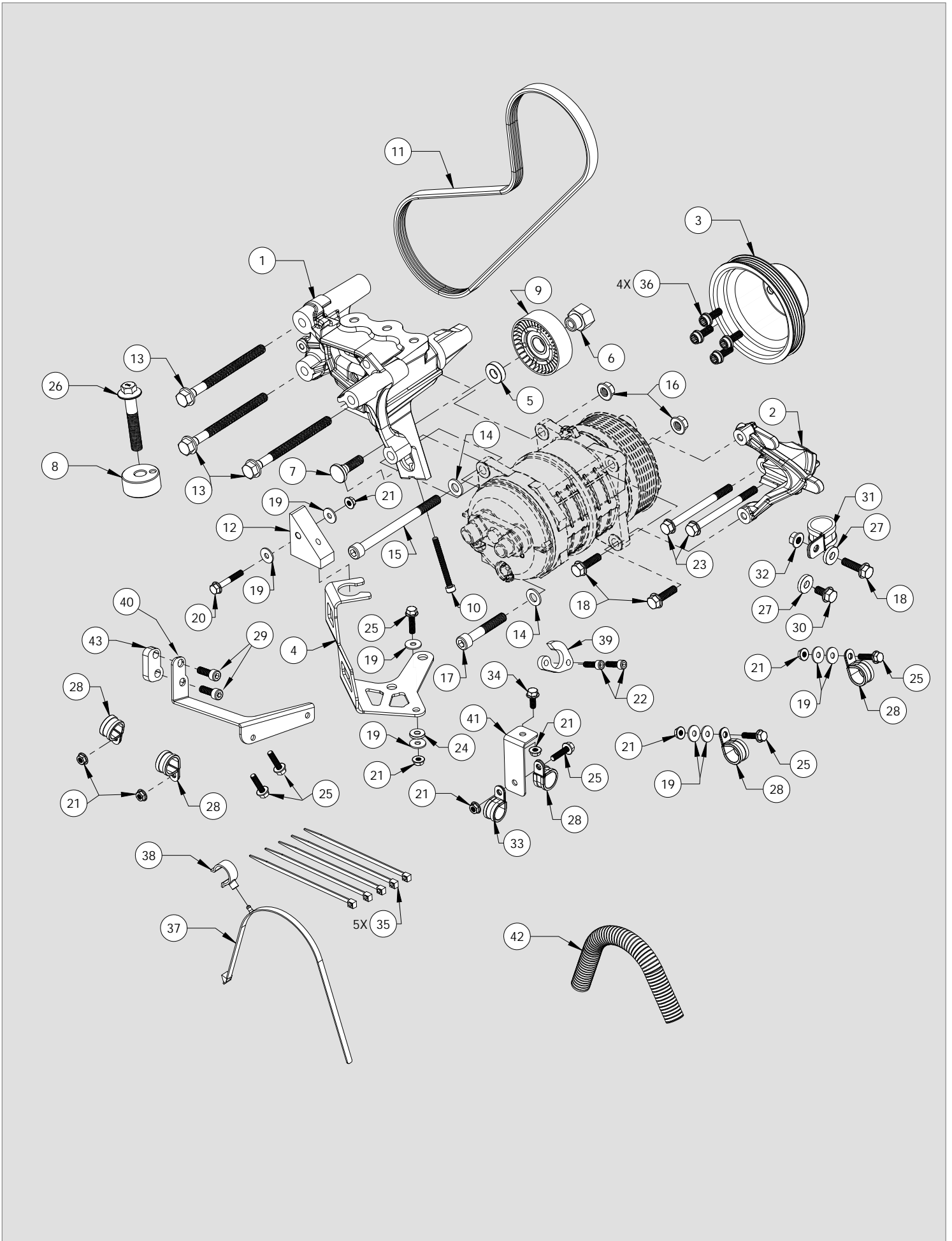
**COMPRESSOR / COMPRESSEUR / KOMPRES-
SOR / COMPRESSORE / COMPRESOR :
SELTEC TM13 / 15
QUE QP13 / 15**

**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	0440.5621	Main CMB VW T6 +AC (Eu6)	1	
2	0440.5631	Secondary CMB VW T6 +AC (Eu6)	1	
3	1701.5501	Crankshaft Pulley T6 inc AC Ø122	1	
4	3020.6651	Air Filter Mount VW Transporter	1	
5	2803.6261	Spacer Ø24 x L7 x Ø10.5	1	
6	2803.6271	Pulley nut 24 A/F Deep	1	
7	1703.5031	Eye bolt M6 X M10 : 1:5	1	
8	2803.6281	VW Transporter engine mount spacer	1	
9	1700.5211	Back Idle Pulley 70x22 (5PK)	1	
10	2702.5041	Hex Socket Cap Screw M6x60 : 1.00	1	
11	0820.7881	Drive belt 4PK 978	1	
12	3020.6661	VW Transporter EU6 Air filter mount block	1	
13	2705.5421	Hexagon Flange Head Bolt - M10 x 125 ~ 1.5 : 10.9 (VW)	3	
14	2809.0011	Washer M10 Flat DIN 125 - A 10.5	2	
15	2705.0301	Hexagon socket head cap screw M10 x 130 : 1.50 - 12.9	1	
16	2735.0071	Durlok Hexagon Flange Nut - M10 : 1.50	2	
17	2705.5051	Hexagon socket head cap screw M10 x 60 : 1.50 - 12.9	1	
18	2704.0091	Hexagon flange bolt Durlok - M8 x 30 : 1.25 - 12.9	3	
19	2806.0501	M6 x 18 x 1.6 - DIN 9021 A2	8	
20	2702.0501	Hexagon flange bolt M6 X 40 : 1.00 - 6921	1	
21	2732.0041	Hexagon flange nut Durlok - M6 : 1.00	8	
22	2702.5071	Hex Socket Cap Screw M6x20 : 1.00	2	
23	2704.5361	Hexagon flange bolt - M8 x 100 : 1.25 - 8.8	2	
24	2803.5051	Washer - 17 x 6.4 x 3 DIN 7349	1	
25	2702.0111	Hexagon flange bolt Durlok - M6 x 25 : 1.00 - 12.9	6	
26	2706.5201	Hex Flange Bolt - M12 x 70 : 1.5 - 10.9	1	
27	2808.5001	Washer M8 Flat DIN 7349 OD21 x ID8.4 x L4	2	
28	2771.1071	P Clip 21mm	5	
29	2704.5371	Hex socket head cap screw M8 x 25 : 1.25 - 12.9	2	
30	2704.1521	Hexagon flange bolt Durlok - M8 x 16 : 1.25 - 12.9	1	
31	2771. 1081	P Clip 25mm M8 Fixing	1	
32	2734.0021	Durlok Hexagon Flange Nut - M8 : 1.25	1	
33	2771.1031	P Clip 19mm M6	1	
34	2702.0521	Hexagon flange bolt M6 X 16 : 1.00 - 6921	1	
35	2763.0051	Cable Tie 4.8 x 370 - Black	5	
36	2704.5791	Spline Bolt M8x 20 :1.25 - 8.8 (VW)	4	
37	2771.1191	Swivel Clip Tie - Dia 45-100 (340mm)	1	
38	2771.1061	Swivel clip female 90 deg 20.0 - 24.5	1	
39	3020.6671	VW Transporter EU6 PAS Pipe Clamp Plate	1	
40	3020.6981	VW T6 inc AC PAS Hose Support	1	
41	3020.5991	Hose support bracket	1	
42	1430.0051	Split tube 200mm 20 OD	1	
43	3020.7041	PAS Hose support spacer	1	

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

SELTEC	TM-13 HS	TM-15 HS	-
Comp No.	0381.0352	0381.5002	-
Seltec No.	435-54122	435-55122	-
Mounting	Ear	Ear	-
Rotor	8PV	8PV	-
GL	46.55mm	46.55mm	-
Armature	3E	3E	-
Diameter	123	123	-
Voltage	12	12	-
Orientation	H	H	-
Fitting	3/4 x 7/8	3/4 x 7/8	-
Manifold	Bolt	Bolt	-

QUE	QP-13 HS	QP-15 HS	-
Comp No	0391.0352	0391.5002	-
Que No.	QP13-1274	QP15-1266	-
Mounting	Ear	Ear	-
Rotor	8PV	8PV	-
GL	46.55mm	46.55mm	-
Armature	3E	3E	-
Diameter	123	123	-
Voltage	12	12	-
Orientation	H	H	-
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.

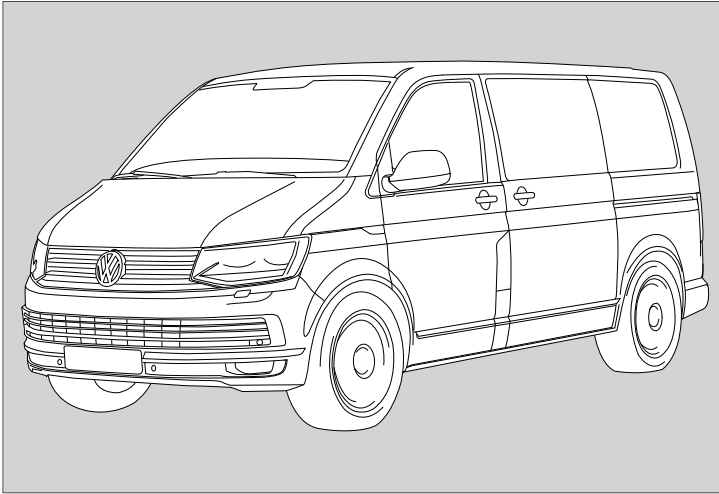
VALORI STANDARD DI SERRAGGIO PER DISPOSITIVI DI FISSAGGIO

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	Volkswagen
Make	Transporter T6
Model Type	T26/T27/T28/T30/T32
Engine cc	2.0l TDI Euro 6 plus
Engine Details	CXFA 110kW / CXGA 62kW / CXGB 75kW / CXHA 110kW
Year	10/15>
Chassis Nos.	N/A
LHD	YES
RHD	YES
PAS	YES
A/C	YES
Voltage	12v

KIT DETAILS

Kit Part Number	0500.8022
Description	Speed reduction Kit
Compressor RPM	3850 @ Max engine power output
Fitting Time	270 Minutes
Suction Fitting	90 Degrees
Discharge Fitting	90 Degrees
Belt Type	4PK 978
Belt Part Number	0820.7881

NOTE: Not suitable for CXEB 150kw Version



NOTE: Volkswagen recommend the following Optional Equipment: Uprated Alternator & battery (NY1); Battery for electrical loads (8FB); Electrical Interface for special vehicles (IS2); Engine under panel – 7E0-805-685-A. Under panel screws N-019-530-6. In vehicles without air conditioning, it is necessary to recode the engine control unit when an ancillary is retrofitted.

On BlueMotion Technology vehicles you should also note that the load compartment cooling system must be integrated into the BMT function so that shut-down of the engine is prevented during the cooling process (cooling system on and load compartment temperature not reached). For ease of implementation of this requirement, we recommend also ordering the multifunction control unit (IS6). Ecooling systems are excluded from BlueMotion vehicles.

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.

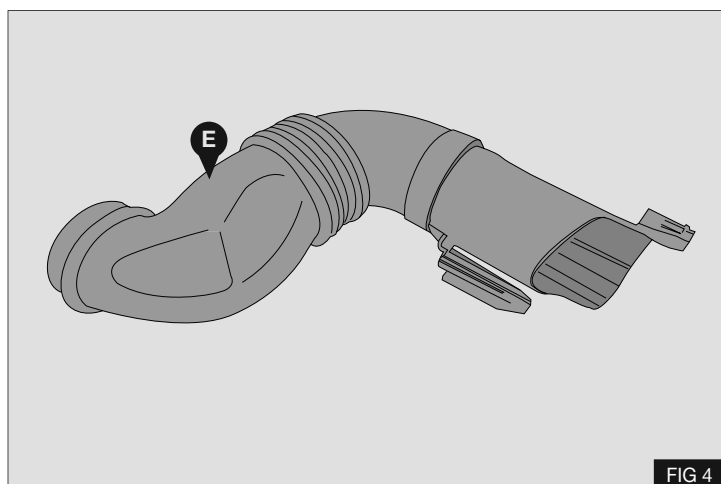
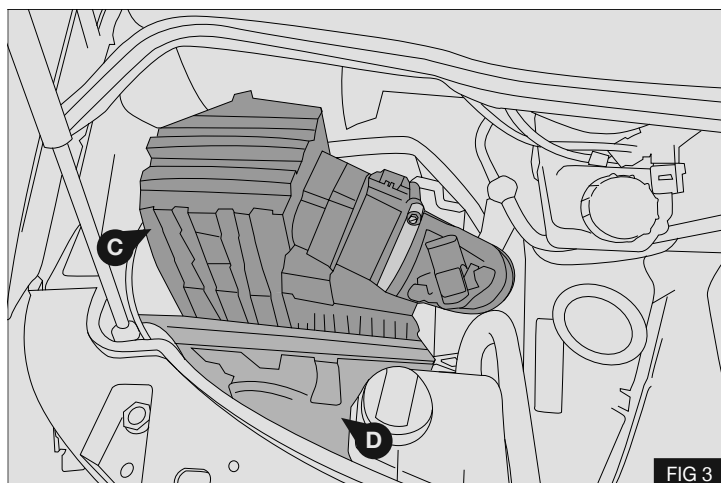
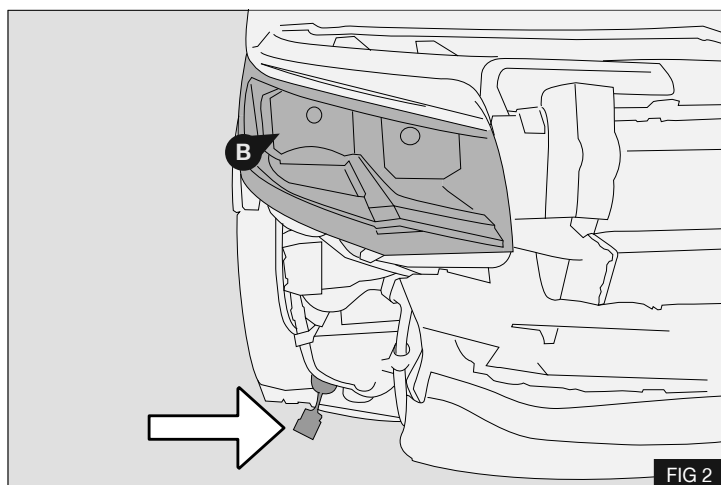
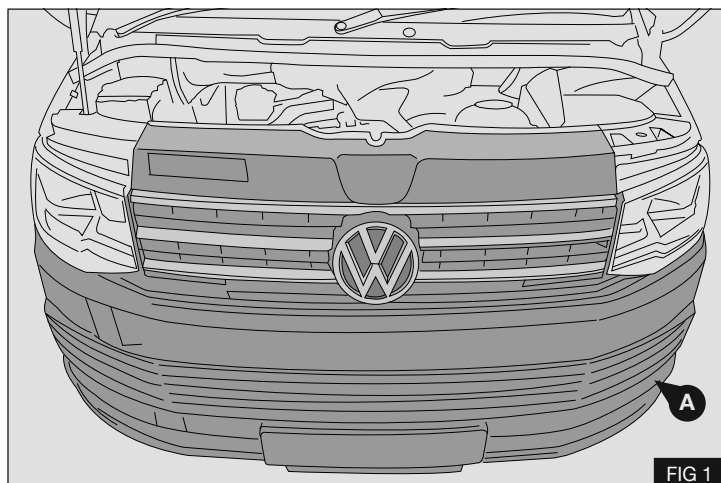
NB: This calls awareness to make the job easier or gives useful information.

PRE-INSTALLATION

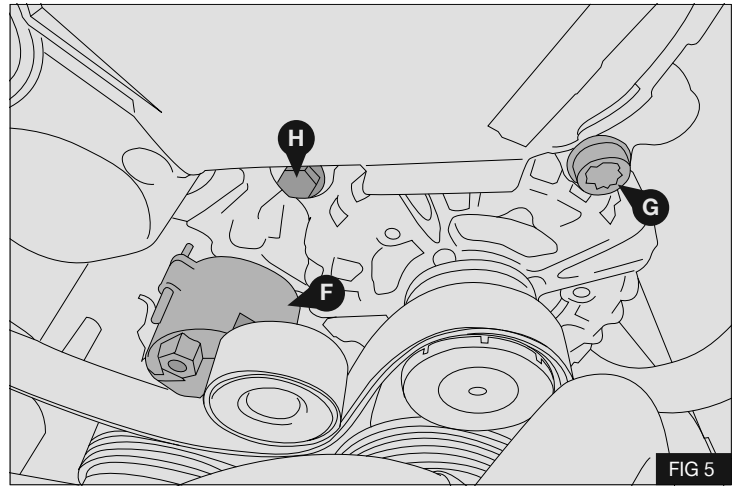
N.B Prior to commencing work, please examine the instructions with care. The alphabetical symbols on the diagram relate to written instructions, numerical symbols relate to the parts listing.

Removal of parts

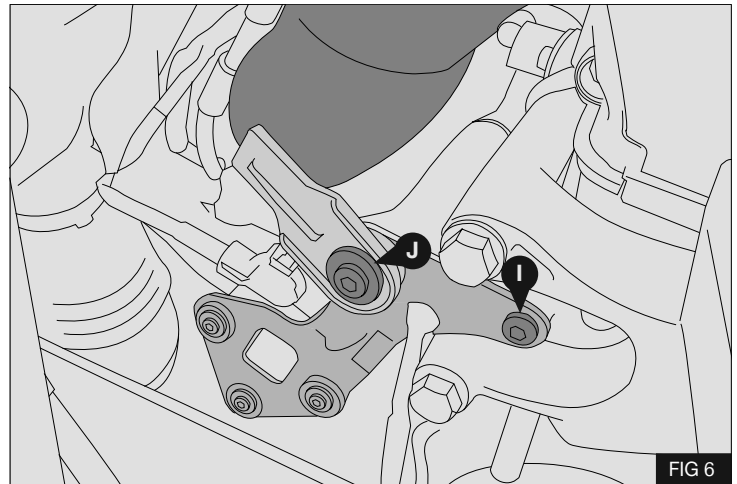
1. Remove the under panel where applicable
2. Remove the front bumper (A) (8x Screws, 7x plastic plugs, 1x plug-in heat guard, disconnect the wiring harness main connector - Fig 2). - Figs 1 & 2
3. Remove the headlight (B). - Fig 2
4. Remove the air filter top section (C) including the hose, disconnect 2x harness plugs. - Fig 3
5. Remove the air filter box lower section (D) with plastic pipe and intake duct (E). Fig 4



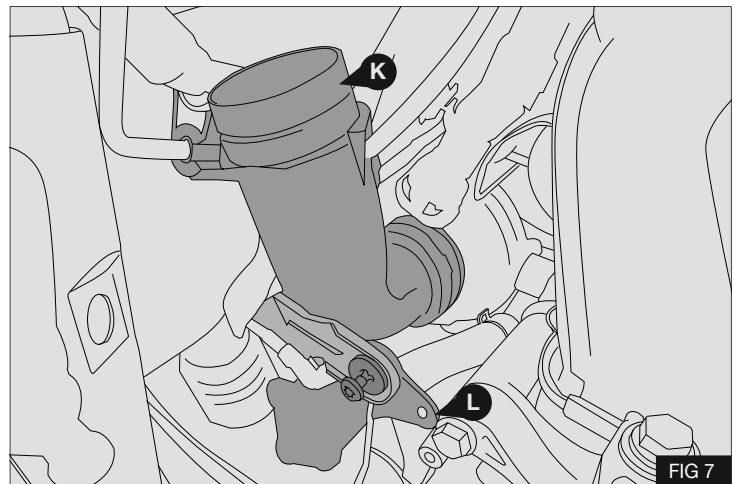
6. Release the tension on the drive belt and lock the belt tensioner **F** using a $\varnothing 4\text{mm}$ pin. Do not remove drive belt.
7. Remove and discard the fasteners **G** and **H**. - Fig 5



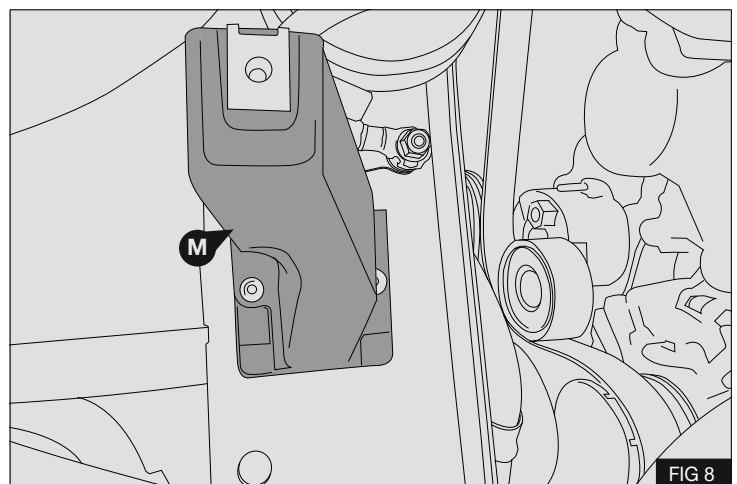
8. Remove the screws **I** and **J**; loosen the hose clip securing the pipe to the turbo. - Fig 6



9. Position the intake pipe **K** and the electric pump bracket **L** as shown. - Fig 7



10. Drill out the rivet securing the air filter lower mounting **M** and discard. - Fig 8



11. Drain the PAS system into a suitable clean container by disconnecting the feed hose from the pump.
12. Disconnect the PAS high pressure hose (N) from the pump, discard the fasteners and position the hose to one side.
- Fig 9

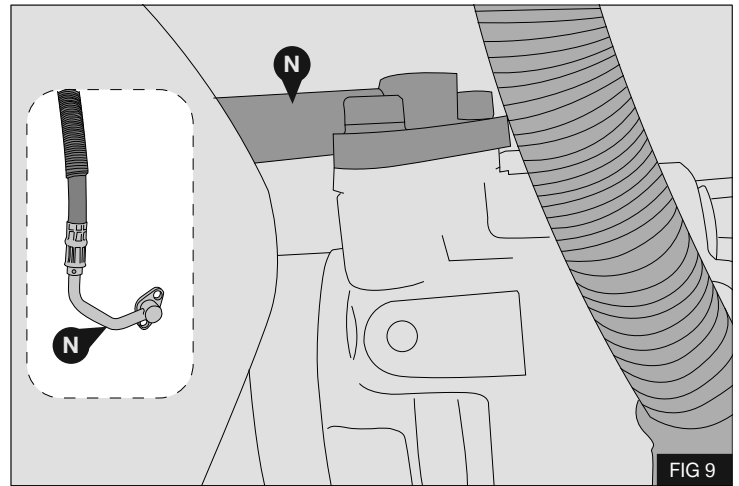


FIG 9



CAUTION: Before proceeding with the following instructions. Carefully support the weight of the engine using a suitable vehicle lift below the sump. DO NOT DAMAGE THE SUMP PAN.

13. Disconnect and remove the grounding wire (O). Remove the fasteners (P1), (P2), (P3) securing the engine mount (P) and remove. - Fig 10
14. Remove the engine mount damper (Q) from the chassis; retain fasteners (Q1), (Q2). - Fig 10
15. Carefully remove the engine timing belt upper cover (R). - Fig 11
16. Remove and discard the engine mount (U) and its fasteners.
- Fig 11

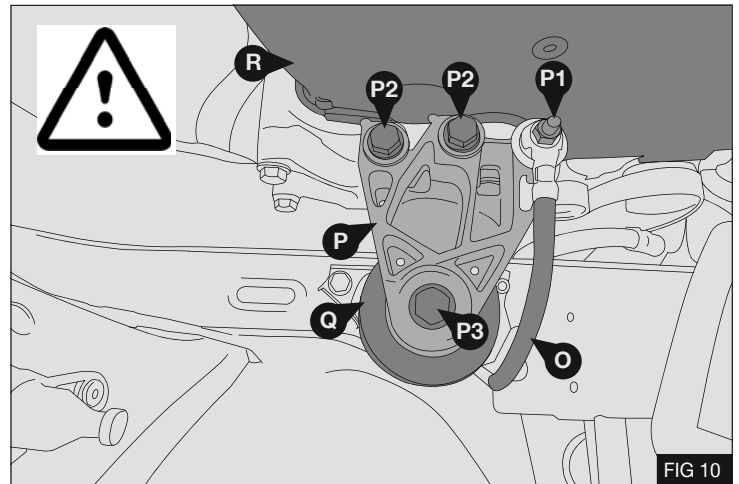


FIG 10

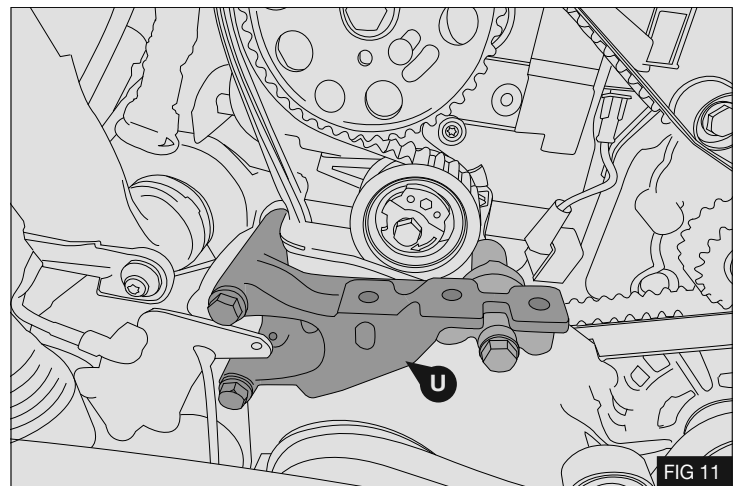


FIG 11

INSTALLATION

CAUTION: During the following operations be careful not to damage the toothed belt tensioner or sensor

1. Assemble the belt adjusting components (6), (9), (5), (7), (10) onto the bracket (1) - Fig 12

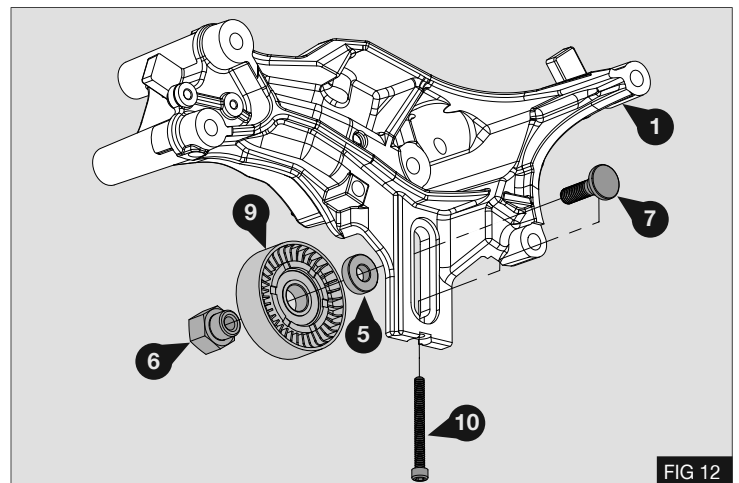


FIG 12

2. Install the bracket assembly to the engine using 3x M10 x 125 bolts (13) - Figs 13a & 13b

Torque bolts (13)

1. 40Nm / 29.5 lbft
2. +180°

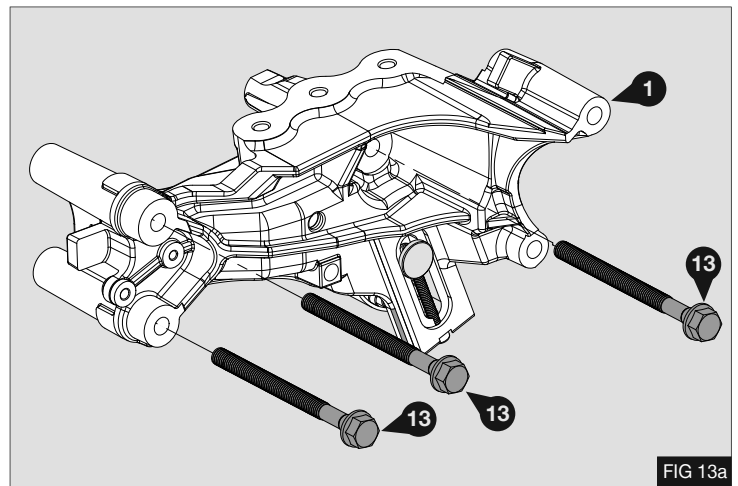


FIG 13a

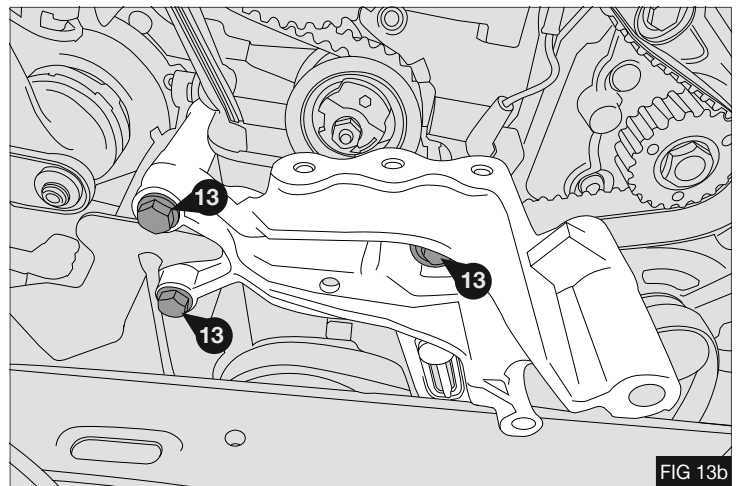


FIG 13b

3. Re-fit the bracket (L) with the original fasteners (I), (J). Tighten hose-clip to turbo. Re-fit the timing cover (R) - Fig 14

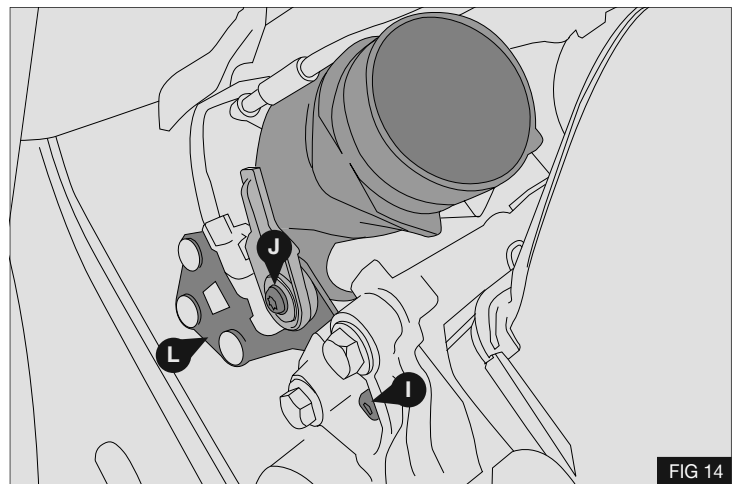


FIG 14

4. Remove the rubber mounting block (S) from the air filter box lower section, and insert into the supplied mounting bracket (4) - Fig 15
5. Loosely install the engine mount damper (Q) along with the air filter lower support (4) as shown, using original fasteners (Q1) and (Q2).

Secure bracket (4) to the chassis with M6 x 25 bolt (25), spacer (24) washers (19) and M6 nut (21).

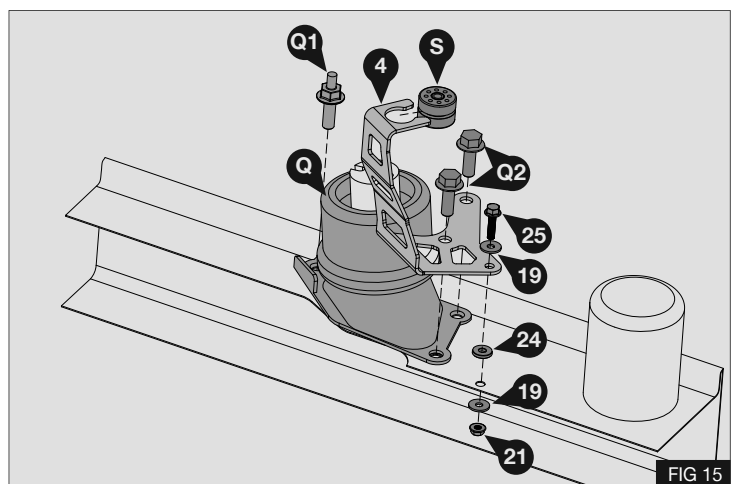


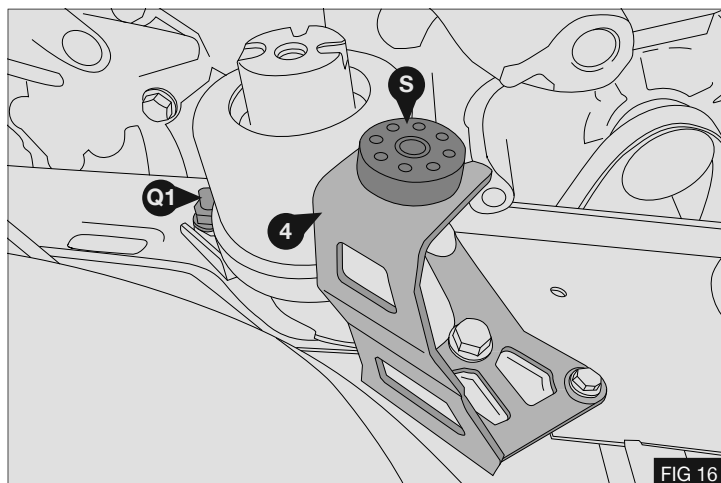
FIG 15

Note new position for grounding stud (Q1) - Figs 15/16

Torque bolts (Q1), (Q2) :

1. 50Nm
2. +90°

Torque bolts (25) to 10Nm



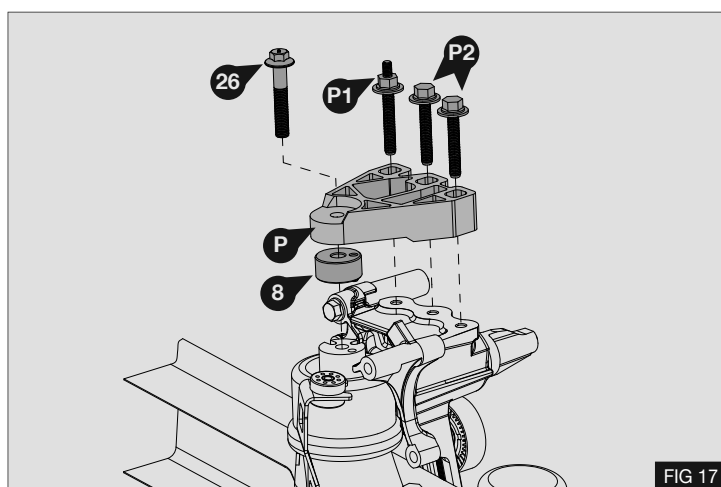
6. Fit the engine mount (P) with spacer (8) using the original fasteners (P1), (P2) and M12 x 70 bolt (26) - Fig 17

Torque bolts (P1), (P2):-

1. 50Nm
2. +90°

Torque bolts (26):

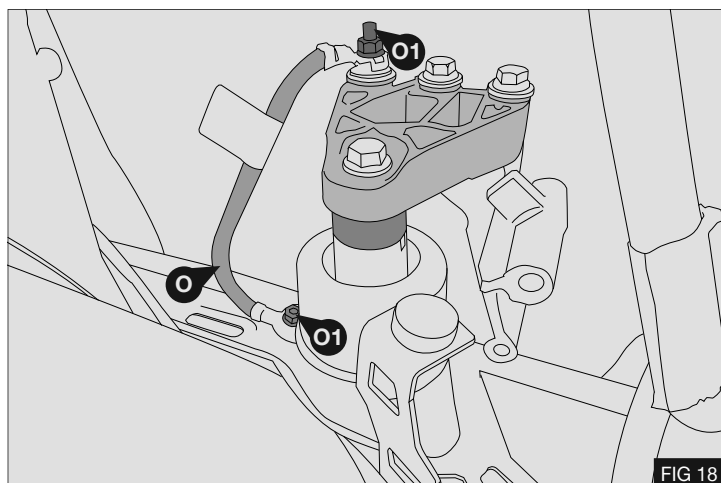
1. 90Nm
2. +90°



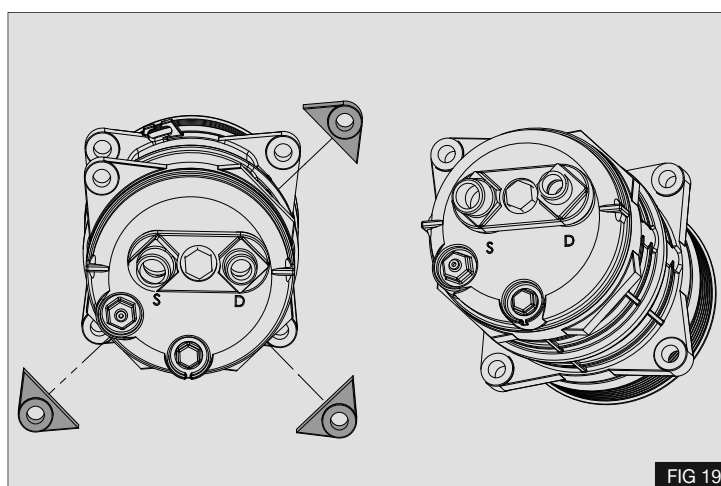
7. Fit the grounding wire (O) using the original nuts (O1). - Fig 18

Torque nuts (O1) to 18Nm

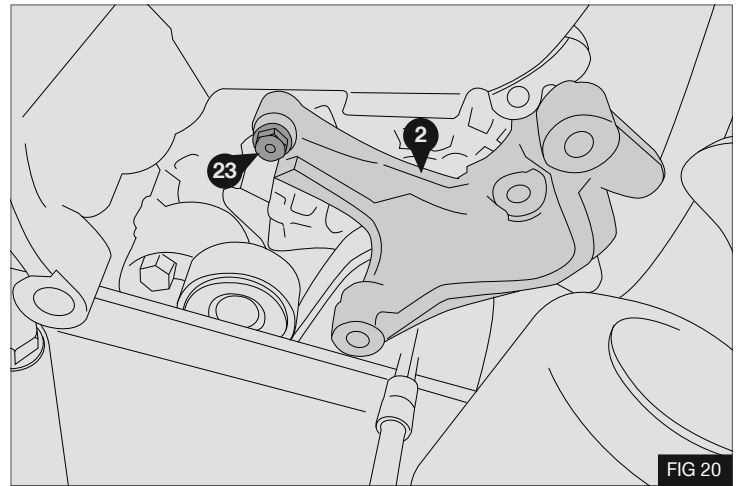
8. Carefully release the weight of the engine from the vehicle lift.



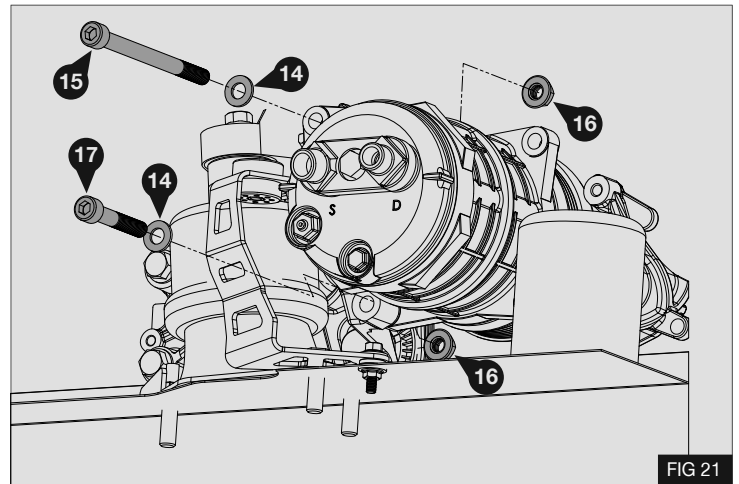
9. Remove the mounting lugs indicated from the compressor. - Fig 19



10. Loosely install the second mounting bracket (2) using 1x M8 x100 bolt (23)- Fig 20



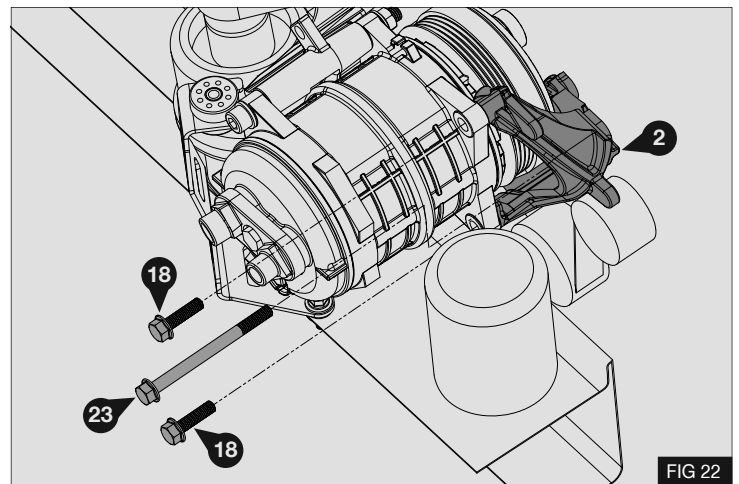
11. Fit the compressor to the bracket (1) using 1x M10 x 60 bolt (17) with washer (14) and 1x M10x130 bolt (15) with M10 nuts (16) - Do not tighten at this stage. - Fig 21



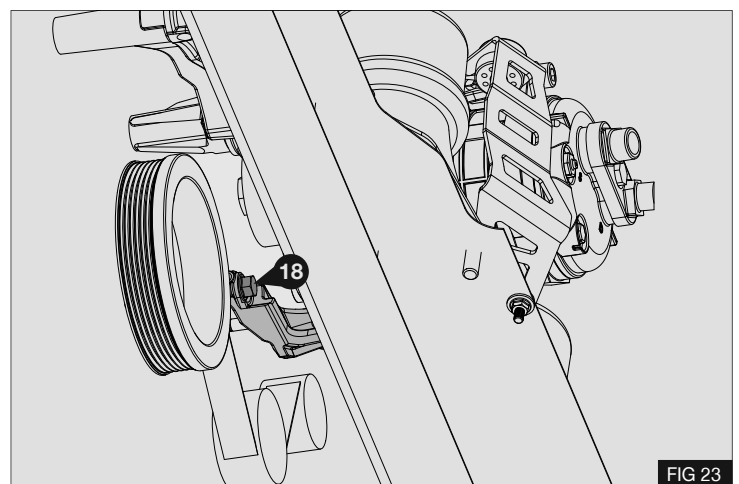
12. Move the second bracket (2) up into position and maneuver the compressor until the M8 x 30 fasteners (18) and M8 x 100 bolt (23) can be successfully installed. - Fig 22, 23

Torque bolts: (18), (23) to 23Nm

Torque bolts: (17), (15) to 65Nm

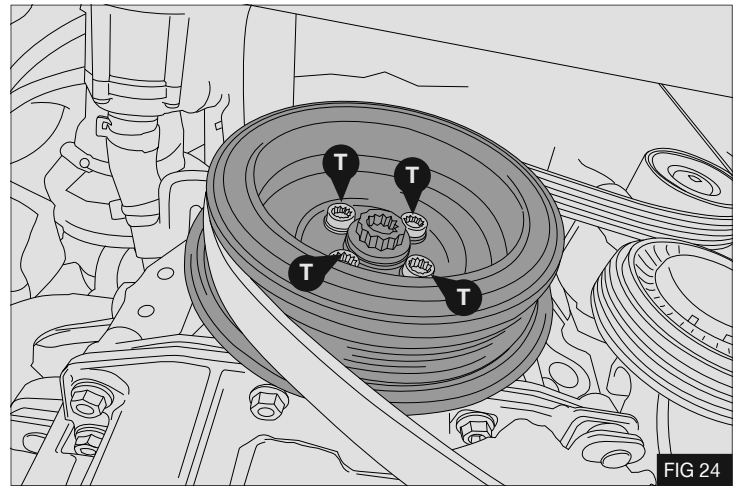


NOTE: The fastener (18) previously installed will need to be tightened from below. - Fig 23

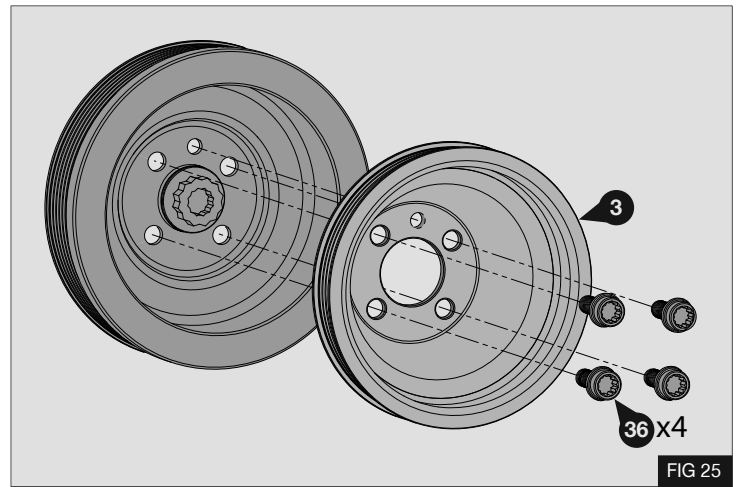


CRANKSHAFT PULLEY

1. Remove and discard the fasteners (T) securing the crankshaft pulley - Fig 24



2. Install the supplied crank pulley (3) using the 4x M8 x20 fasteners (36), Fig 25



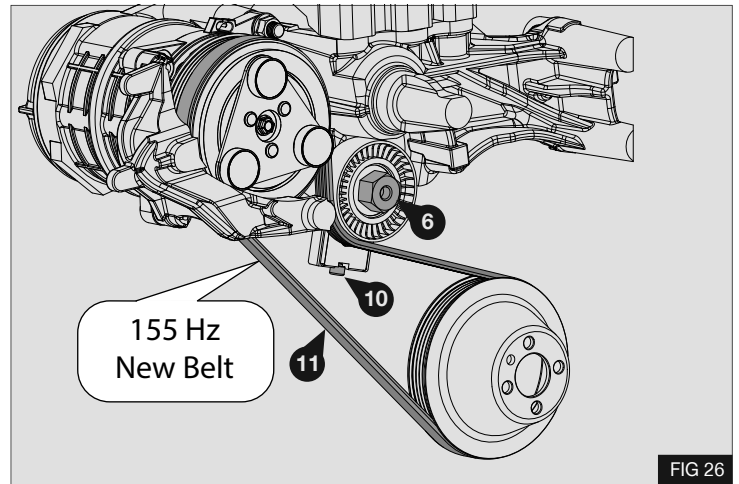
Torque bolts (36)

1. 10 Nm
2. + 90°

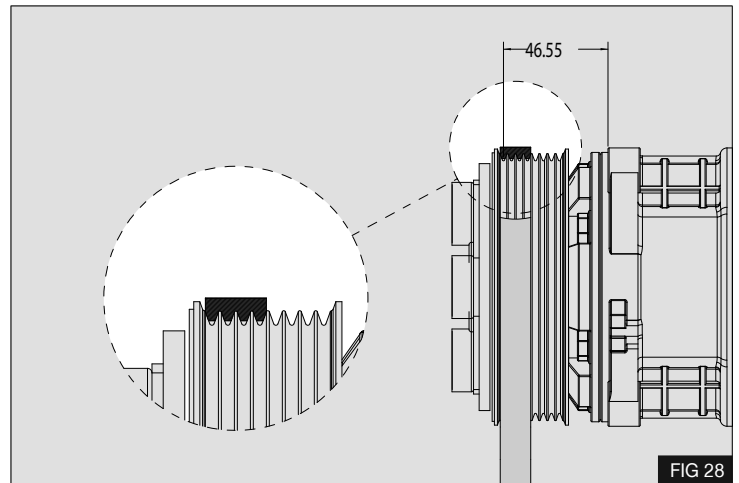
3. Check the drive belt is set correctly within the pulleys, and remove tensioner locking pin.

DRIVE BELT

1. Fit the drive belt (11). - Fig 26 & Fig 27



2. Position the belt in compressor front grooves. - Fig 27
3. Tension the drive belt (11) using draw bolt (10). Once the correct tension is achieved (see table) tighten the pulley nut (6)



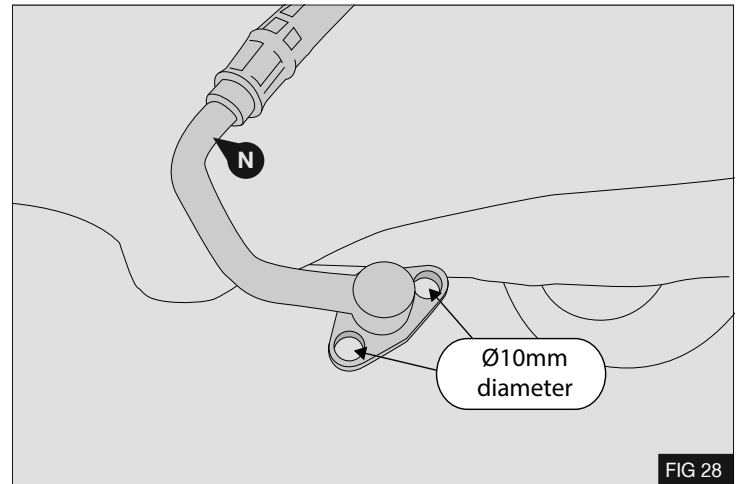
BELT TENSION TABLE

Belt	Belt Age	Belt Tension Using Belt Tension Gauge
4PK	New Belt	48 - 56 kg
4PK	Used Belt	36 - 40 kg

IMPORTANT: Tighten pulley nut (6)

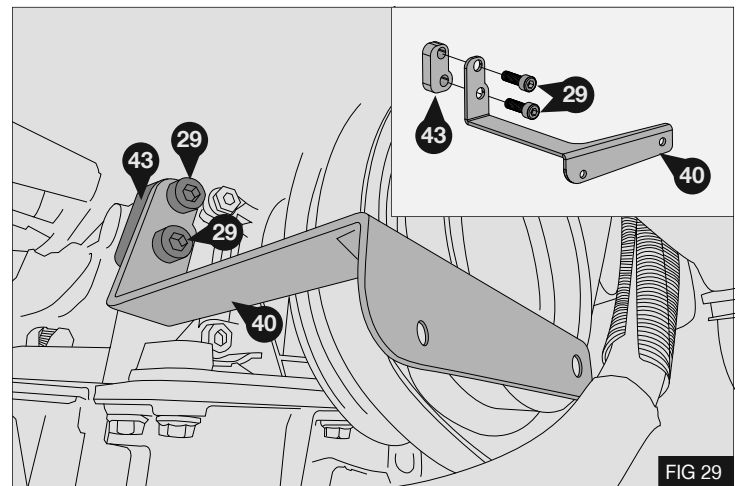
POWER STEERING

1. Carefully drill the mounting holes in the PAS hose fitting to $\text{Ø}10\text{mm} \pm 0.3$. Remove any sharp edges. - Fig 28



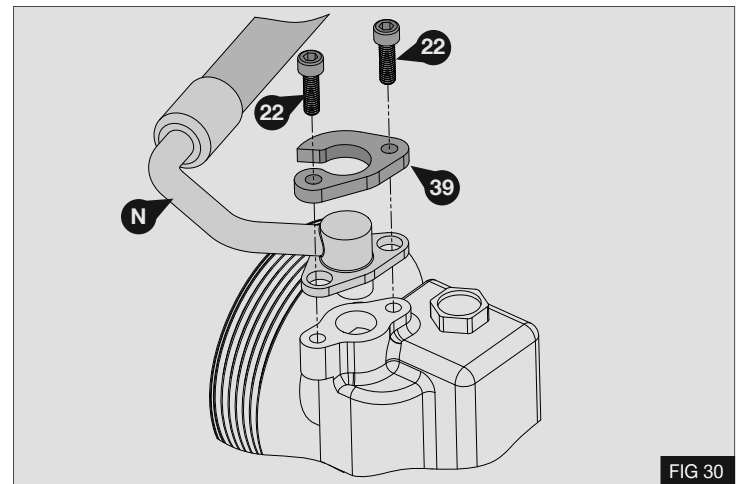
2. Fit the PAS hose support (40) using 2x M8x25 Cap heads (29) and spacer (43). - Fig 29

Torque bolts (29) to 25Nm / 18.4 lbft



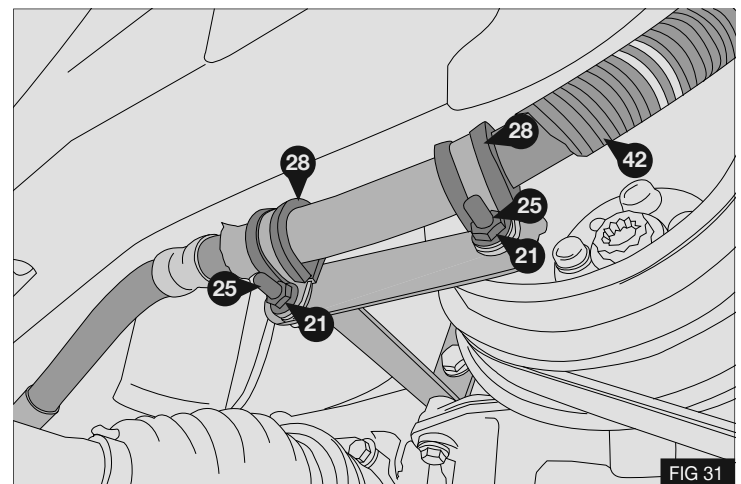
3. Connect the modified PAS hose (N) to the pump using 2x M6x20 cap screws (22) and positioning clamp plate (39) - Fig 30

Torque bolts (22) to 12Nm / 9 lbft



4. Fit the conduit (42) to the hose. Secure the PAS hose to the bracket (40) using Pipe clamps (28) with M6x25 bolts (25) and nuts (21) - Fig 30 & Fig 31

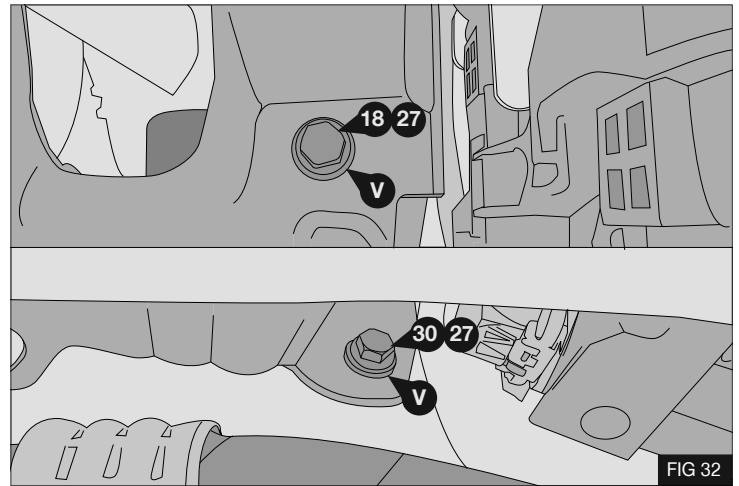
NOTE: Check the PAS hose has clearance to the drive belt



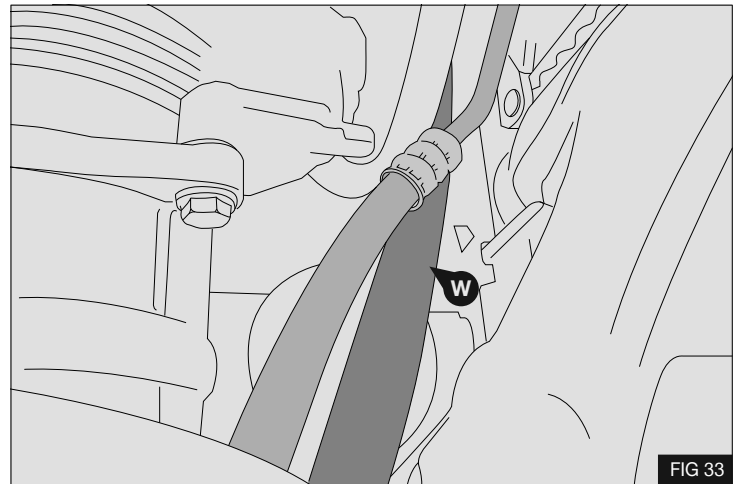
- Replace the original bolts securing the crash member (V) with 1x M8 x 30 bolt (18) and washer (27) in the upper position, and 1x M8x16 bolt (30) with washer (27) in the lower position.

These changes assist securing the PAS supply hose later in the installation. - Fig 32

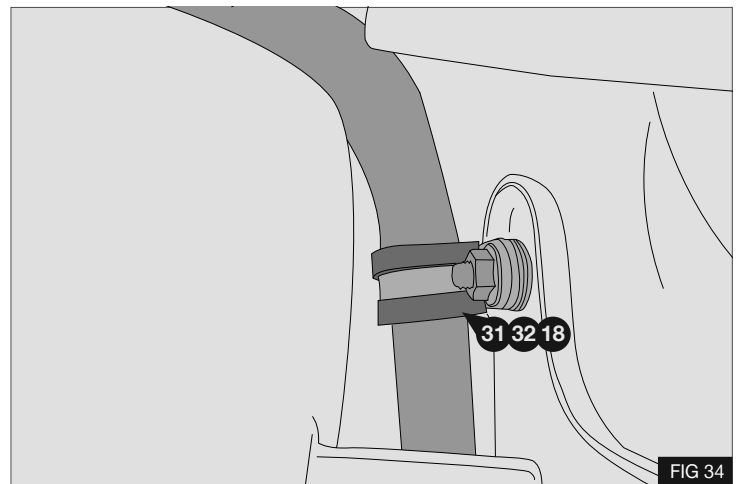
Torque bolts (18), (30) to 25Nm / 18.4 lbft



- Re-position the PAS feed hose (W) behind the Air-conditioning pipe. - Fig 33

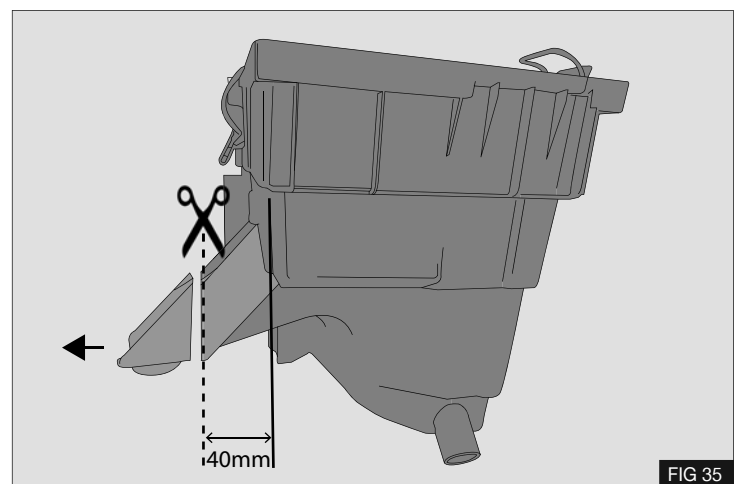


- Connect PAS hose to the pump. Position as shown and secure to the bolt (18) (previously installed) with Pipe Clamp (31) and M8 nut (32) - Fig 34

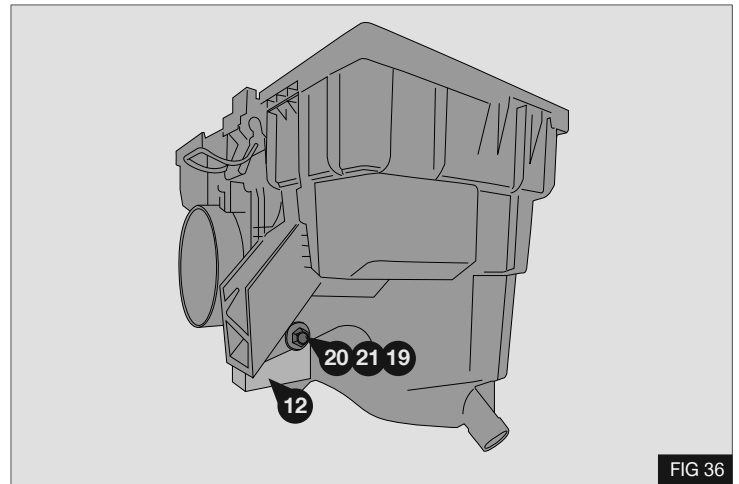


AIR BOX MODIFICATION

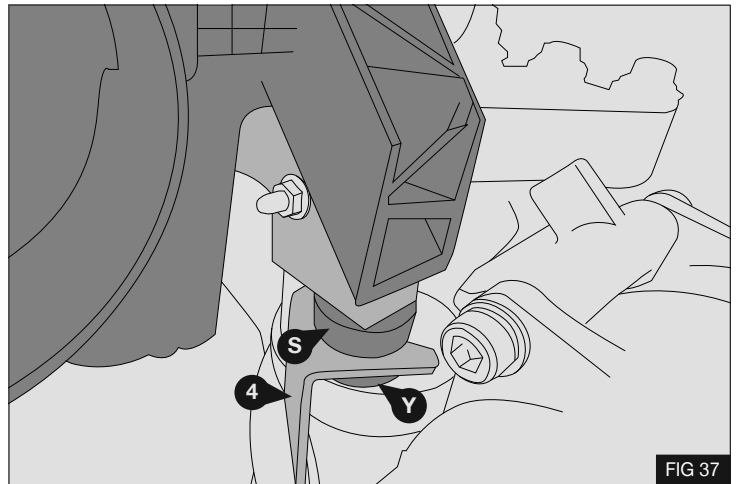
- Remove the section indicated from the lower section of the air box. - Fig 35



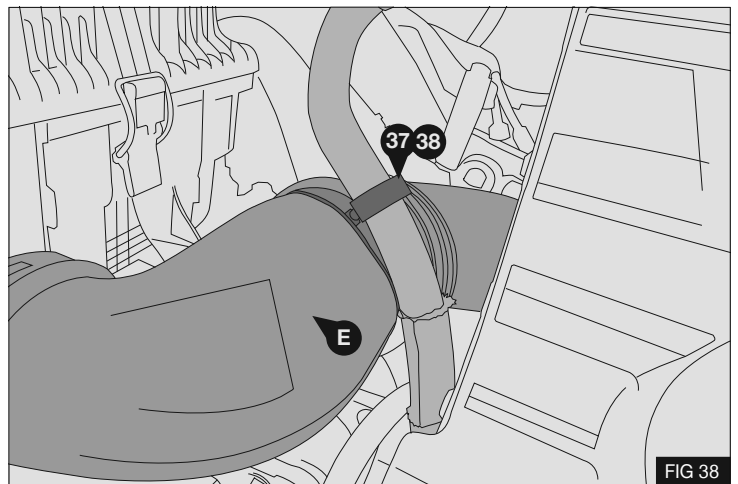
- Drill a hole and mount the block (12) to the air box lower using 1x M6 x40 bolt (20) with washers (19) and M6 nut (21) - Fig 36



- Fit the modified air box lower part, secure to mount (4) using the original fastener (Y) - Fig 37

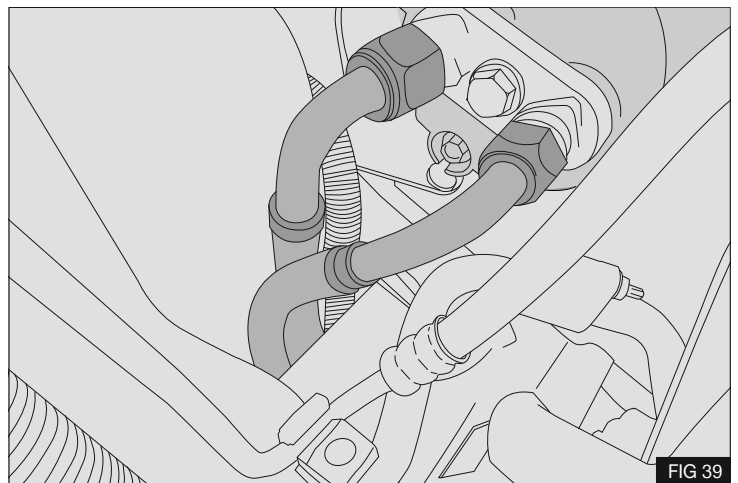


- Fit the air intake duct (E)
- Secure the PAS low pressure hose to the intake duct (E) using cable tie (37) with swivel clip (38) - Fig 38
- Re-fit the upper section of the air box.



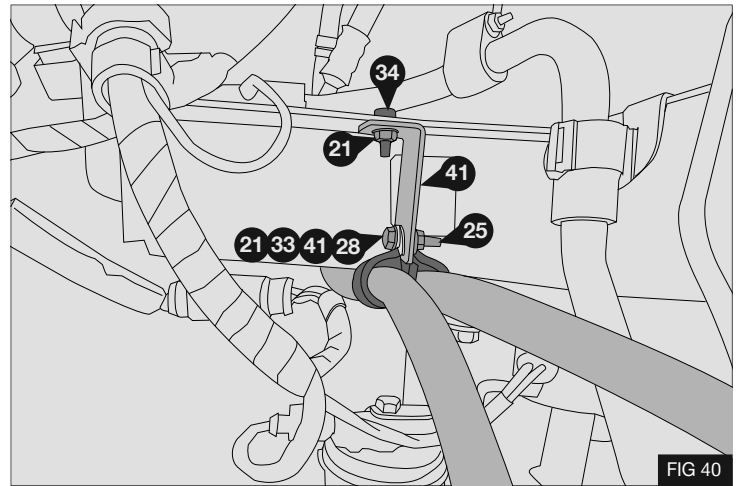
PIPE ROUTING.

- Connect refrigerant hose to the compressor and position as shown. - Fig 39

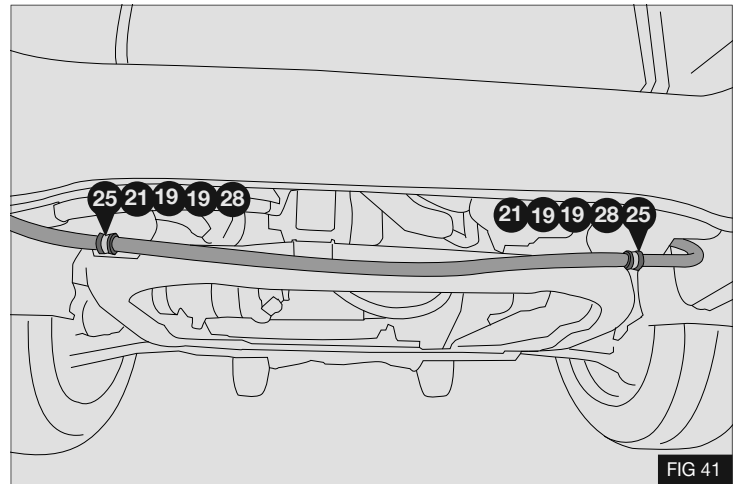


2. Install hose support plate (41) to the position shown using 1x M6x16 bolt (34) and M6 nut (21) - Fig 41

Torque bolt (34) to 8Nm
3. Install refrigerant hoses as shown and secure to bracket (41) using pipe clamps (33) and (28) with M6x 25 bolt (25) and Nut (21) - Fig 40



4. Route the hoses as shown and secure to points on the chassis using pipe clamps (28) with M6 x 25 bolts (25) and nuts (21). Secure the hoses together using cable ties (35). - Fig 41



UNDER PANEL

Note: VW recommend the installation of the engine under panel on converted vehicles:

OEM Under panel part number – **7E0 805 685 A**
 OEM Under panel fasteners number – **N 019 530 6**

1. Fit the engine under panel using original bolts

Torque the bolts to 12Nm / 9Lbft

ELECTRICAL INTERFACE FOR SPECIAL VEHICLES
 (EXERPT FROM THE VW BODYBUILDERS GUIDE)

1. In principle, there are two interfaces for external use in special vehicles and by body builders:
 - a Terminal strip: 3 plugs with selected vehicle electrical system potentials
 - b **Multifunction control unit: control unit with access to the vehicle's CAN network**
2. The interfaces can be ordered using the following equipment numbers (PR numbers): SEE TABLE OPPOSITE

Note: The multifunction control unit (MFG) with part number 7E0.907.427.B has a CANopen interface acc. to the CIA447 specification.

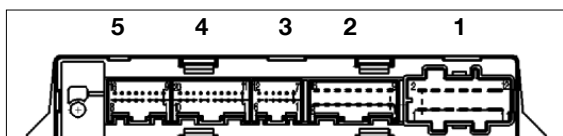
PR number	Description
IS1	Terminal strip "Electrical interface for external use" (terminal strip in driver's underseat box)
IS6	Multifunction control unit "Multifunction control unit for external use" (front passenger's underseat box)
IS2	Terminal strip (IS1) and multifunction control unit (IS6) "Electrical interface and multifunction control unit for external use"

“ “ Sales designation

3. The multifunction control unit **IS6** is installed in the seat box of the front passenger seat. For vehicles with individual seats the multifunction control unit is installed to the right on the seat box and for vehicles with double seats to the front on the seat box.
4. The terminal strip **IS1** is installed in the seat box of the driver's seat and is located by the coupling point.

CONTACT ASSIGNMENT ON THE MULTIFUNCTION CONTROL UNIT (IS6)

- Discrete signals with terminal 30 level can be picked off at all highside outputs of the multifunction control unit. Signals with terminal 31 level can be picked off at all lowside outputs. The outputs can be loaded up to the particular prescribed value. The inputs of the control unit must be connected to earth (low active) or to positive (high active), according to specification.
- The following plugs and contacts must be used for connecting external devices to the special vehicle control unit:



	Plug 5	Plug 4	Plug 3	Plug 2	Plug 1
Part Number	8E0.972.416.A	8E0.972.420	Not assigned	443.972.807	4B0.973.721
Contacts	Pin 3 – 16: 0.5 mm ² N.907.649.01	Pin 1 – 20: 0.5 mm ² N.907.649.01		Pin 1 – 16: 0.5 – 1 mm ² N.101.905.01 1.5 – 2.5 mm ² N.101.906.01	Pin 1 – 8: 0.5 – 1 mm ² N.906.844.01 1.5 – 2.5 mm ² N.906.845.01

PLUG 4 ASSIGNMENT

Pin	Designation	Type	Function
1	E01	Input/active low	Activation of ignition bypass safety circuit
2	E02	Input/active low.	n.c.
3	E03	Input/active low	Activation of the buzzer (gong) in the instrument cluster; The frequency and duration of the activation can be set in the parameters
4	E04	Input/active low	Activation of front left electric window for opening the side window
5	E05	Input/active low	Activation of front left electric window for closing the side window
6	E06	Input/active low	Deactivation of the daytime running light (only with BCM max) ²
7	E07	Input/active low	Activation of front right electric window for opening the side window
8	E08	Input/active low	Activation of front right electric window for closing the side window
9	E09	Input/active low	Activation of the hazard warning lights; The function only responds to the button. Press once = switch on, second press = switch off
10	E10	Input/active low	Activation of the central locking; Momentary contact input for closing (safe) the central locking
11	E11	Input/active low	Activation of the central locking; Momentary contact input for opening the central locking
12	E12	Input/active low	n.c
13	E13	Input/active low	n.c
14	E14	Input/active low	Activation of the vehicle horn
15	E15	Input/active low	Activation for the intermittent light/flasher unit. By setting the parameters of the control unit, it is possible to define which bulbs should be activated ²
16	E16	Input/active low	Deactivation of the engine start/stop system in the vehicle; Deactivation is continuous for as long as the input is activated (even after terminal change)
17	E17	Input/active low	Activation of the interior lighting/suppression of the interior lighting ¹
18	E18	Input/active low	n.c.
19	Reserve		
20	Reserve		

¹ The function depends on the parameter settings of the control unit.

² Statutory regulations must be complied with.

(EN)

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