

Atlas Copco Parts List



Parts List
for Portable Generators
English

QAS 250 JD IT4
QAS 330 JD IT4

Engine 6090HFG94
Engine 6090HFG95

Atlas Copco

QAS 250 JD IT4
QAS 330 JD IT4

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INSTRUCTION MANUAL

Warranty and Liability Limitation

Use only authorized parts.

Any damage or malfunction caused by the use of unauthorized parts is not covered by Warranty or Product Liability.

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ORDERING SPARE PARTS

ORDERING SPARE PARTS

Always quote the part number, the designation and the quantity of the parts required, as well as the type and the serial number of the machine.

EXPLANATION OF THE COLUMNS

REF : REFERENCE CODE

Establishes the connection between a part in the list and a part in the illustration.

"—" means that the part is not shown in the illustration.

PART NUMBER

If no part number is given, the part cannot be obtained as a spare part.

Parts marked with a dot are part of the assembly listed right above them.

DESIGNATION

Usually this is the name of the part. For standard parts, in addition to the name, a number of characteristics are given.

QTY : QUANTITY

Indicates the quantity of the part concerned. "AR" stands for "As Required".

COMMANDE DE PIÈCES DETACHEES

Toujours indiquer le numéro de pièce, la désignation, la quantité désirée ainsi que le type et le numéro de série du groupe.

EXPLICATION DES INTITULES DES COLONNES

REF : CODE DE REFERENCE

Réfère à la pièce détachée spécifiée dans la liste et sur l'illustration. "—" implique que la pièce n'est pas indiquée sur l'illustration.

PART NUMBER : NUMERO DE PIECE DETACHEE

Si le numéro n'est pas indiqué, la pièce n'est pas disponible en tant que pièce de rechange.

Les pièces indiquées par un point gras font partie de l'ensemble se trouvant au-dessus des pièces détachées correspondantes.

DESIGNATION

En général, le nom de la pièce. S'il s'agit de pièces standard, outre la désignation, un certain nombre de caractéristiques sont indiquées.

QTY : QUANTITE

Indique la quantité de la pièce détachée. "AR" indique "As required", c'est-à-dire la quantité à déterminer selon le cas.

PEDIDO DE PARTES

Siempre comunicar el número de parte, la designación y la cantidad deseada así como el tipo y el número de serie de la máquina.

INFORMACIONES SOBRE LAS COLUMNAS

REF : CODIGO DE REFERENCIA

Establece la conexión entre una parte en la lista y una parte en la ilustración.

"—" quiere decir que la parte no está ilustrada.

PART NUMBER : NUMERO DE PARTE

Si no se da ningún número, quiere decir que la parte no está disponible como parte de recambio.

Partes marcadas con un punto son partes del conjunto indicado más arriba.

DESIGNATION : DESIGNACION

Principalmente el nombre de la parte. En caso de partes estándares, el nombre es seguido por especificaciones.

QTY : CANTIDAD

Indica la cantidad de la parte correspondiente. La indicación "AR" significa "As Required" (como sea requerido).

SAFETY PRECAUTIONS FOR PORTABLE GENERATORS

To be read attentively and acted accordingly before towing, lifting, operating, performing maintenance or repairing the generator

0.1 INTRODUCTION

The policy of Atlas Copco is to provide the users of their equipment with safe, reliable and efficient products. Factors taken into account are among others:

- the intended and predictable future use of the products, and the environments in which they are expected to operate,
- applicable rules, codes and regulations,
- the expected useful product life, assuming proper service and maintenance,
- providing the manual with up-to-date information.

Before handling any product, take time to read the relevant instruction manual. Besides giving detailed operating instructions, it also gives specific information about safety, preventive maintenance, etc.

Keep the manual always at the unit location, easy accessible to the operating personnel.

See also the safety precautions of the engine and possible other equipment, which are separately sent along or are mentioned on the equipment or parts of the unit.

These safety precautions are general and some statements will therefore not always apply to a particular unit.

Only people that have the right skills should be allowed to operate, adjust, perform maintenance or repair on Atlas Copco equipment. It is the responsibility of management to appoint operators with the appropriate training and skill for each category of job.

Skill level 1: Operator

An operator is trained in all aspects of operating the unit with the push-buttons, and is trained to know the safety aspects.

Skill level 2: Mechanical technician

A mechanical technician is trained to operate the unit the same as the operator. In addition, the mechanical technician is also trained to perform maintenance and repair, as described in the instruction manual, and is allowed to change settings of the control and safety system. A mechanical technician does not work on live electrical components.

Skill level 3: Electrical technician

An electrical technician is trained and has the same

qualifications as both the operator and the mechanical technician. In addition, the electrical technician may carry out

electrical repairs within the various enclosures of the unit. This includes work on live electrical components.

Skill level 4: Specialist from the manufacturer

This is a skilled specialist sent by the manufacturer or its agent to perform complex repairs or modifications to the equipment.

In general it is recommended that not more than two people operate the unit, more operators could lead to unsafe operating conditions. Take necessary steps to keep unauthorized persons away from the unit and eliminate all possible sources of danger at the unit.

When handling, operating, overhauling and/or performing maintenance or repair on Atlas Copco equipment, the mechanics are expected to use safe engineering practices and to observe all relevant local safety requirements and ordinances. The following list is a reminder of special safety directives and precautions mainly applicable to Atlas Copco equipment.

Neglecting the safety precautions may endanger people as well as environment and machinery:

- endanger people due to electrical, mechanical or chemical influences,
- endanger the environment due to leakage of oil, solvents or other substances,
- endanger the machinery due to function failures.

All responsibility for any damage or injury resulting from neglecting these precautions or by non-observance of ordinary caution and due care required in handling, operating, maintenance or repair, also if not expressly mentioned in this instruction manual, is disclaimed by Atlas Copco.

The manufacturer does not accept any liability for any damage arising from the use of non-original parts and for modifications, additions or conversions made without the manufacturer's approval in writing.

If any statement in this manual does not comply with local legislation, the stricter of the two shall be applied.

Statements in these safety precautions should not be interpreted as suggestions, recommendations or inducements that it should be used in violation of any

applicable laws or regulations.

0.2 GENERAL SAFETY PRECAUTIONS

- 1 The owner is responsible for maintaining the unit in a safe operating condition. Unit parts and accessories must be replaced if missing or unsuitable for safe operation.
- 2 The supervisor, or the responsible person, shall at all times make sure that all instructions regarding machinery and equipment operation and maintenance are strictly followed and that the machines with all accessories and safety devices, as well as the consuming devices, are in good repair, free of abnormal wear or abuse, and are not tampered with.
- 3 Whenever there is an indication or any suspicion that an internal part of a machine is overheated, the machine shall be stopped but no inspection covers shall be opened before sufficient cooling time has elapsed; this to avoid the risk of spontaneous ignition of oil vapour when air is admitted.
- 4 Normal ratings (pressures, temperatures, speeds, etc.) shall be durably marked.
- 5 Operate the unit only for the intended purpose and within its rated limits (pressure, temperature, speeds, etc.).
- 6 The machinery and equipment shall be kept clean, i.e. as free as possible from oil, dust or other deposits.
- 7 To prevent an increase in working temperature, inspect and clean heat transfer surfaces (cooler fins, intercoolers, water jackets, etc.) regularly. See the maintenance schedule.
- 8 All regulating and safety devices shall be maintained with due care to ensure that they function properly. They may not be put out of action.
- 9 Pressure and temperature gauges shall be checked regularly with regard to their accuracy. They shall be replaced whenever outside acceptable tolerances.
- 10 Safety devices shall be tested as described in the maintenance schedule of the instruction manual to determine that they are in good operating condition.
- 11 Mind the markings and information labels on the unit.
- 12 In the event the safety labels are damaged or destroyed, they must be replaced to ensure operator safety.

- 13 Keep the work area neat. Lack of order will increase the risk of accidents.
- 14 When working on the unit, wear safety clothing. Depending on the kind of activities these are: safety glasses, ear protection, safety helmet (including visor), safety gloves, protective clothing, safety shoes. Do not wear the hair long and loose (protect long hair with a hairnet), or wear loose clothing or jewelry.
- 15 Take precautions against fire. Handle fuel, oil and anti-freeze with care because they are inflammable substances. Do not smoke or approach with naked flame when handling such substances. Keep a fire-extinguisher in the vicinity.
- 16a **Portable generators (with earthing pin):**
Earth the generator as well as the load properly.
- 16b **Portable generators IT:**
Note: This generator is built to supply a sheer alternating current IT network.
Earth the load properly.

0.3 SAFETY DURING TRANSPORT AND INSTALLATION

To lift a unit, all loose or pivoting parts, e.g. doors and towbar, shall first be securely fastened.

Do not attach cables, chains or ropes directly to the lifting eye; apply a crane hook or lifting shackle meeting local safety regulations. Never allow sharp bends in lifting cables, chains or ropes.

Helicopter lifting is not allowed.

It is strictly forbidden to dwell or stay in the risk zone under a lifted load. Never lift the unit over people or residential areas. Lifting acceleration and retardation shall be kept within safe limits.

- 1 Before towing the unit:
 - check the towbar, the brake system and the towing eye. Also check the coupling of the towing vehicle,
 - check the towing and brake capability of the towing vehicle,
 - check that the towbar, jockey wheel or stand leg is safely locked in the raised position,
 - ascertain that the towing eye can swivel freely on the hook,
 - check that the wheels are secure and that the tyres are in good condition and inflated correctly,
 - connect the signalisation cable, check all lights and connect the pneumatic brake couplers,
 - attach the safety break-away cable or safety chain to the towing vehicle,
 - remove wheel chocks, if applied, and disengage the parking brake.
- 2 To tow a unit use a towing vehicle of ample capacity. Refer to the documentation of the towing vehicle.
- 3 If the unit is to be backed up by the towing vehicle, disengage the overrun brake mechanism (if it is not an automatic mechanism).
- 4 Never exceed the maximum towing speed of the unit (mind the local regulations).
- 5 Place the unit on level ground and apply the parking brake before disconnecting the unit from the towing vehicle. Unclip the safety break-away cable or safety chain. If the unit has no parking brake or jockey wheel, immobilize the unit by placing chocks in front of and/or behind the wheels. When the towbar can be positioned vertically, the locking device must be applied and kept

in good order.

- 6 To lift heavy parts, a hoist of ample capacity, tested and approved according to local safety regulations, shall be used.
- 7 Lifting hooks, eyes, shackles, etc., shall never be bent and shall only have stress in line with their design load axis. The capacity of a lifting device diminishes when the lifting force is applied at an angle to its load axis.
- 8 For maximum safety and efficiency of the lifting apparatus all lifting members shall be applied as near to perpendicular as possible. If required, a lifting beam shall be applied between hoist and load.
- 9 Never leave a load hanging on a hoist.
- 10 A hoist has to be installed in such a way that the object will be lifted perpendicular. If that is not possible, the necessary precautions must be taken to prevent load-swinging, e.g. by using two hoists, each at approximately the same angle not exceeding 30° from the vertical.
- 11 Locate the unit away from walls. Take all precautions to ensure that hot air exhausted from the engine and driven machine cooling systems cannot be recirculated. If such hot air is taken in by the engine or driven machine cooling fan, this may cause overheating of the unit; if taken in for combustion, the engine power will be reduced.
- 12 Generators shall be stalled on an even, solid floor, in a clean location with sufficient ventilation. If the floor is not level or can vary in inclination, consult Atlas Copco.
- 13 The electrical connections shall correspond to local codes. The machines shall be earthed and protected against short circuits by fuses or circuit breakers.
- 14 Never connect the generator outlets to an installation which is also connected to a public mains.
- 15 Before connecting a load, switch off the corresponding circuit breaker, and check whether frequency, voltage, current and power factor comply with the ratings of the generator.

0.4 SAFETY DURING USE AND OPERATION

- 1 When the unit has to operate in a fire-hazardous environment, each engine exhaust has to be provided with a spark arrestor to trap incendiary sparks.
- 2 The exhaust contains carbon monoxide which is a lethal gas. When the unit is used in a confined space, conduct the engine exhaust to the outside atmosphere by a pipe of sufficient diameter; do this in such a way that no extra back pressure is created for the engine. If necessary, install an extractor. Observe any existing local regulations. Make sure that the unit has sufficient air intake for operation. If necessary, install extra air intake ducts.
- 3 When operating in a dust-laden atmosphere, place the unit so that dust is not carried towards it by the wind. Operation in clean surroundings considerably extends the intervals for cleaning the air intake filters and the cores of the coolers.
- 4 Never remove a filler cap of the cooling water system of a hot engine. Wait until the engine has sufficiently cooled down.
- 5 Never refill fuel while the unit is running, unless otherwise stated in the Atlas Copco Instruction Book (AIB). Keep fuel away from hot parts such as air outlet pipes or the engine exhaust. Do not smoke when fuelling. When fuelling from an automatic pump, an earthing cable should be connected to the unit to discharge static electricity. Never spill nor leave oil, fuel, coolant or cleansing agent in or around the unit.
- 6 All doors shall be shut during operation so as not to disturb the cooling air flow inside the bodywork and/or render the silencing less effective. A door should be kept open for a short period only e.g. for inspection or adjustment.
- 7 Periodically carry out maintenance works according to the maintenance schedule.
- 8 Stationary housing guards are provided on all rotating or reciprocating parts not otherwise protected and which may be hazardous to personnel. Machinery shall never be put into operation, when such guards have been removed, before the guards are securely reinstalled.
- 9 Noise, even at reasonable levels, can cause irritation and disturbance which, over a long period of time, may cause severe injuries to the nervous system of human beings.
When the sound pressure level, at any point where

personnel normally has to attend, is:

- below 70 dB(A):no action needs to be taken,
 - above 70 dB(A):noise-protective devices should be provided for people continuously being present in the room,
 - below 85 dB(A):no action needs to be taken for occasional visitors staying a limited time only,
 - above 85 dB(A):room to be classified as a noise-hazardous area and an obvious warning shall be placed permanently at each entrance to alert people entering the room, for even relatively short times, about the need to wear ear protectors,
 - above 95 dB(A):the warning(s) at the entrance(s) shall be completed with the recommendation that also occasional visitors shall wear ear protectors,
 - above 105 dB(A):special ear protectors that are adequate for this noise level and the spectral composition of the noise shall be provided and a special warning to that effect shall be placed at each entrance.
- 10 Insulation or safety guards of parts the temperature of which can be in excess of 80 °C (175 °F) and which may be accidentally touched by personnel shall not be removed before the parts have cooled to room temperature.
 - 11 Never operate the unit in surroundings where there is a possibility of taking in flammable or toxic fumes.
 - 12 If the working process produces fumes, dust or vibration hazards, etc., take the necessary steps to eliminate the risk of personnel injury.
 - 13 When using compressed air or inert gas to clean down equipment, do so with caution and use the appropriate protection, at least safety glasses, for the operator as well as for any bystander. Do not apply compressed air or inert gas to your skin or direct an air or gas stream at people. Never use it to clean dirt from your clothes.
 - 14 When washing parts in or with a cleaning solvent, provide the required ventilation and use appropriate protection such as a breathing filter, safety glasses, rubber apron and gloves, etc.
 - 15 Safety shoes should be compulsory in any workshop and if there is a risk, however small, of falling objects, wearing of a safety helmet should be included.
 - 16 If there is a risk of inhaling hazardous gases, fumes or dust, the respiratory organs must be protected and depending on the nature of the hazard, so must the eyes and skin.
 - 17 Remember that where there is visible dust, the finer,

invisible particles will almost certainly be present too; but the fact that no dust can be seen is not a reliable indication that dangerous, invisible dust is not present in the air.

- 18 Never operate the generator in excess of its limits as indicated in the technical specifications and avoid long no-load sequences.
- 19 Never operate the generator in a humid atmosphere. Excessive moisture causes worsening of the generator insulation.
- 20 Do not open electrical cabinets, cubicles or other equipment while voltage is supplied. If such cannot be avoided, e.g. for measurements, tests or adjustments, have the action carried out by a qualified electrician only, with appropriate tools, and ascertain that the required bodily protection against electrical hazards is applied.
- 21 Never touch the power terminals during operation of the machine.
- 22 Whenever an abnormal condition arises, e.g. excessive vibration, noise, odour, etc., switch the circuit breakers to OFF and stop the engine. Correct the faulty condition before restarting.
- 23 Check the electric cables regularly. Damaged cables and insufficient lightening of connections may cause electric shocks. Whenever damaged wires or dangerous conditions are observed, switch the circuit breakers to OFF and stop the engine. Replace the damaged wires or correct the dangerous condition before restarting. Make sure that all electric connections are securely tightened.
- 24 Avoid overloading the generator. The generator is provided with circuit breakers for overload protection. When a breaker has tripped, reduce the concerned load before restarting.
- 25 If the generator is used as stand-by for the mains supply, it must not be operated without control system which automatically disconnects the generator from the mains when the mains supply is restored.
- 26 Never remove the cover of the output terminals during operation. Before connecting or disconnecting wires, switch off the load and the circuit breakers, stop the machine and make sure that the machine cannot be started inadvertently or there is any residual voltage on the power circuit.
- 27 Running the generator at low load for long periods will reduce the lifetime of the engine.

0.5 SAFETY DURING MAINTENANCE AND REPAIR

Maintenance, overhaul and repair work shall only be carried out by adequately trained personnel; if required, under supervision of someone qualified for the job.

- 1 Use only the correct tools for maintenance and repair work, and only tools which are in good condition.
- 2 Parts shall only be replaced by genuine Atlas Copco replacement parts.
- 3 All maintenance work, other than routine attention, shall only be undertaken when the unit is stopped. Steps shall be taken to prevent inadvertent starting. In addition, a warning sign bearing a legend such as "work in progress; do not start" shall be attached to the starting equipment.
On engine-driven units the battery shall be disconnected and removed or the terminals covered by insulating caps.
On electrically driven units the main switch shall be locked in open position and the fuses shall be taken out. A warning sign bearing a legend such as "work in progress; do not supply voltage" shall be attached to the fuse box or main switch.
- 4 Prior to stripping an engine or other machine or undertaking major overhaul on it, prevent all movable parts from rolling over or moving.
- 5 Make sure that no tools, loose parts or rags are left in or on the machine. Never leave rags or loose clothing near the engine air intake.
- 6 Never use flammable solvents for cleaning (fire-risk).
- 7 Take safety precautions against toxic vapours of cleaning liquids.
- 8 Never use machine parts as a climbing aid.
- 9 Observe scrupulous cleanliness during maintenance and repair. Keep away dirt, cover the parts and exposed openings with a clean cloth, paper or tape.
- 10 Never weld on or perform any operation involving heat near the fuel or oil systems. Fuel and oil tanks must be completely purged, e.g. by steam-cleaning, before carrying out such operations. Never weld on, or in any way modify, pressure vessels. Disconnect the alternator cables during arc welding on the unit.
- 11 Support the towbar and the axle(s) securely if working underneath the unit or when removing a wheel. Do not

rely on jacks.

- 12 Do not remove any of, or tamper with, the sound-damping material. Keep the material free of dirt and liquids such as fuel, oil and cleansing agents. If any sound-damping material is damaged, replace it to prevent the sound pressure level from increasing.
- 13 Use only lubricating oils and greases recommended or approved by Atlas Copco or the machine manufacturer. Ascertain that the selected lubricants comply with all applicable safety regulations, especially with regard to explosion or fire-risk and the possibility of decomposition or generation of hazardous gases. Never mix synthetic with mineral oil.
- 14 Protect the engine, alternator, air intake filter, electrical and regulating components, etc., to prevent moisture ingress, e.g. when steam-cleaning.
- 15 When performing any operation involving heat, flames or sparks on a machine, the surrounding components shall first be screened with non-flammable material.
- 16 Never use a light source with open flame for inspecting the interior of a machine.
- 17 When repair has been completed, the machine shall be barred over at least one revolution for reciprocating machines, several revolutions for rotary ones to ensure that there is no mechanical interference within the machine or driver. Check the direction of rotation of electric motors when starting up the machine initially and after any alteration to the electrical connection(s) or switch gear, to check that the oil pump and the fan function properly.
- 18 Maintenance and repair work should be recorded in an operator's logbook for all machinery. Frequency and nature of repairs can reveal unsafe conditions.
- 19 When hot parts have to be handled, e.g. shrink fitting, special heat-resistant gloves shall be used and, if required, other body protection shall be applied.
- 20 When using cartridge type breathing filter equipment, ascertain that the correct type of cartridge is used and that its useful service life is not surpassed.
- 21 Make sure that oil, solvents and other substances likely to pollute the environment are properly disposed of.
- 22 Before clearing the generator for use after maintenance or overhaul, submit it to a testrun, check that the AC power performance is correct and that the control and shutdown devices function correctly.

0.6 TOOL APPLICATIONS SAFETY

Apply the proper tool for each job. With the knowledge of correct tool use and knowing the limitations of tools, along with some common sense, many accidents can be prevented.

Special service tools are available for specific jobs and should be used when recommended. The use of these tools will save time and prevent damage to parts.

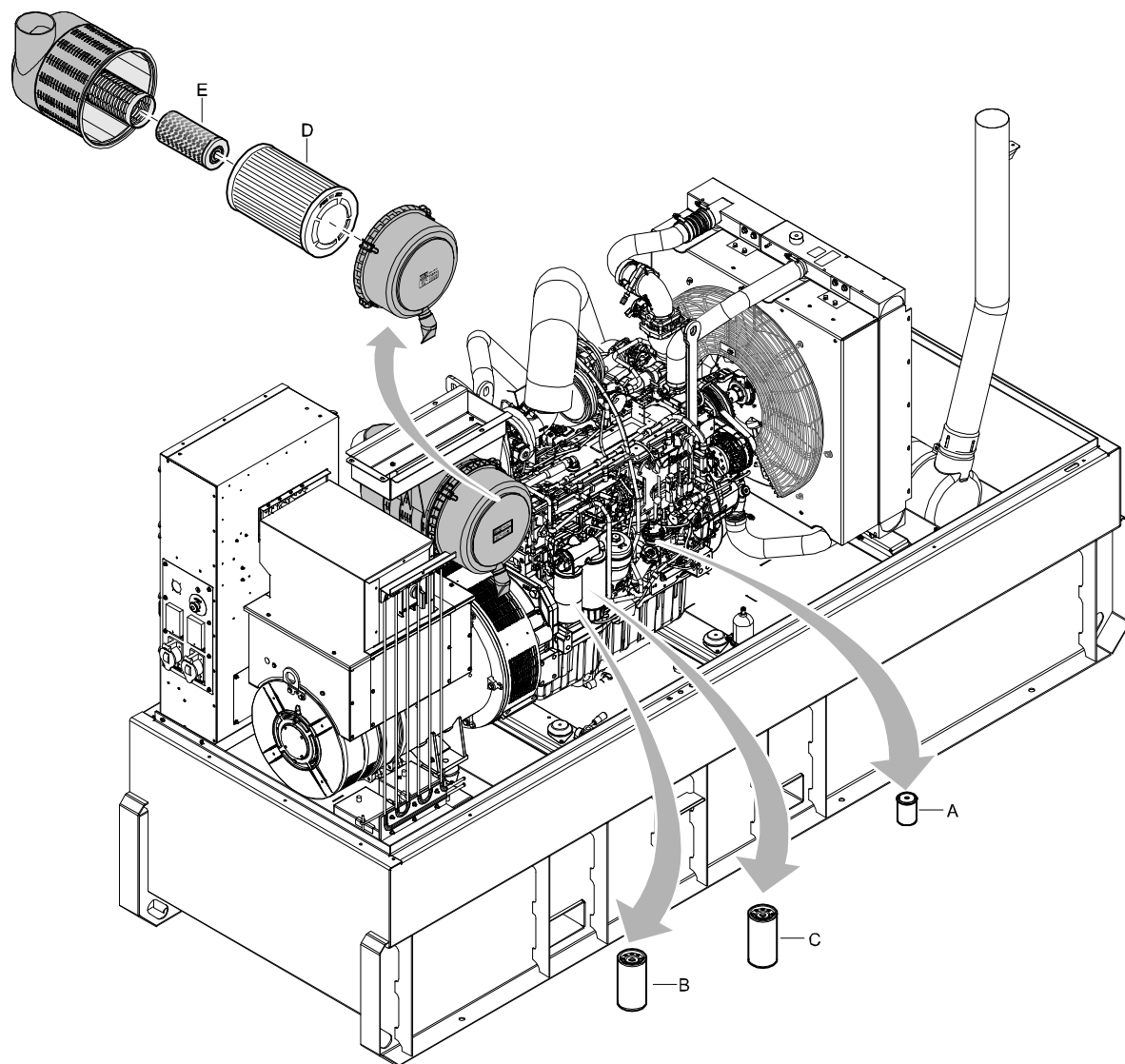
0.7 SPECIFIC SAFETY PRECAUTIONS

Batteries

When servicing batteries, always wear protecting clothing and glasses.

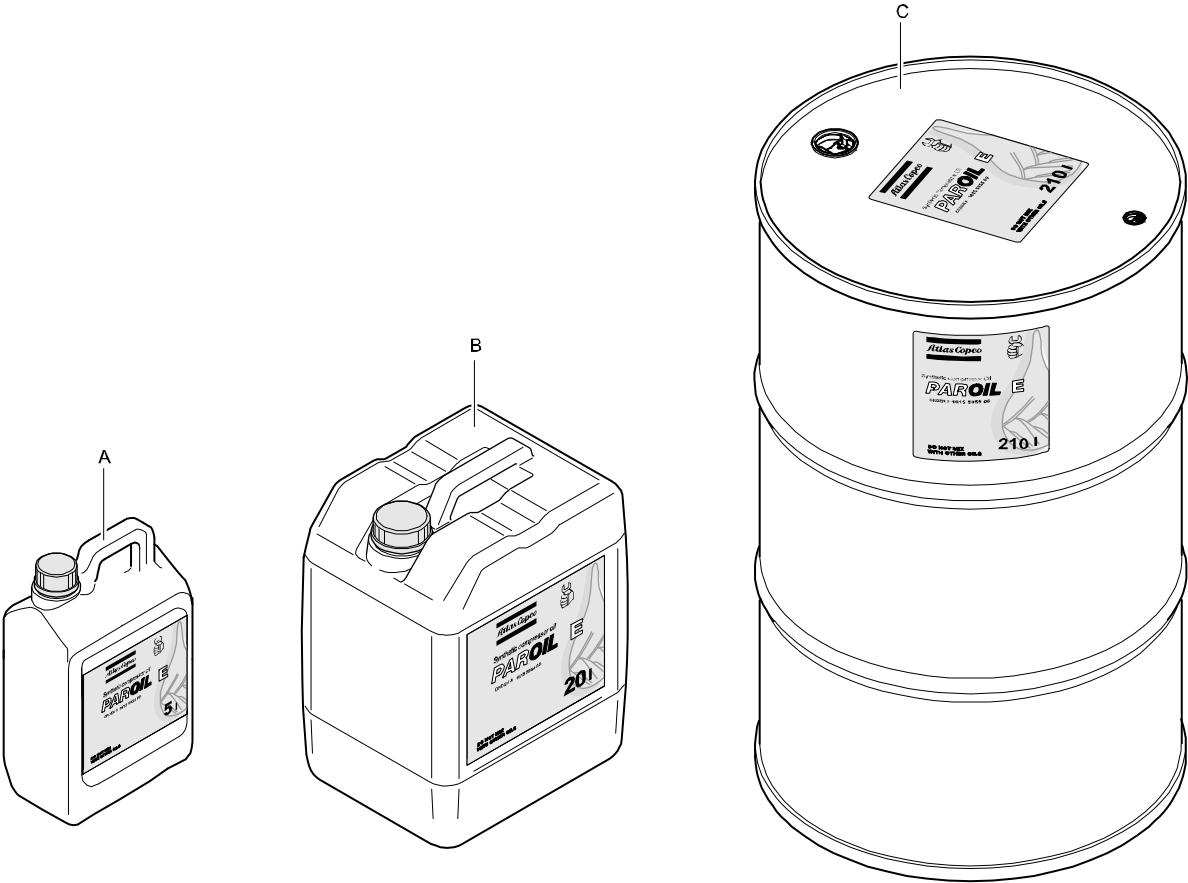
- 1 The electrolyte in batteries is a sulphuric acid solution which is fatal if it hits your eyes, and which can cause burns if it contacts your skin. Therefore, be careful when handling batteries, e.g. when checking the charge condition.
- 2 Install a sign prohibiting fire, open flame and smoking at the post where batteries are being charged.
- 3 When batteries are being charged, an explosive gas mixture forms in the cells and might escape through the vent holes in the plugs.
Thus an explosive atmosphere may form around the battery if ventilation is poor, and can remain in and around the battery for several hours after it has been charged. Therefore:
 - never smoke near batteries being, or having recently been, charged,
 - never break live circuits at battery terminals, because a spark usually occurs.
- 4 When connecting an auxiliary battery (AB) in parallel to the unit battery (CB) with booster cables: connect the + pole of AB to the + pole of CB, then connect the - pole of CB to the mass of the unit. Disconnect in the reverse order.

SERVICE PAK



REF	PART NUMBER	DESIGNATION	QTY
-	1310 3129 83	SERVICE PAK 500 HR	
•A	-	OIL FILTER	1
•B	-	FUEL FILTER	1
•C	-	FUEL FILTER	1
-	1310 3129 84	SERVICE PAK 1000 HR	
•A	-	OIL FILTER	1
•B	-	FUEL FILTER	1
•C	-	FUEL FILTER	1
•D	-	AIR FILTER ELEMENT	1
•E	-	SAFETY CARTRIDGE	1

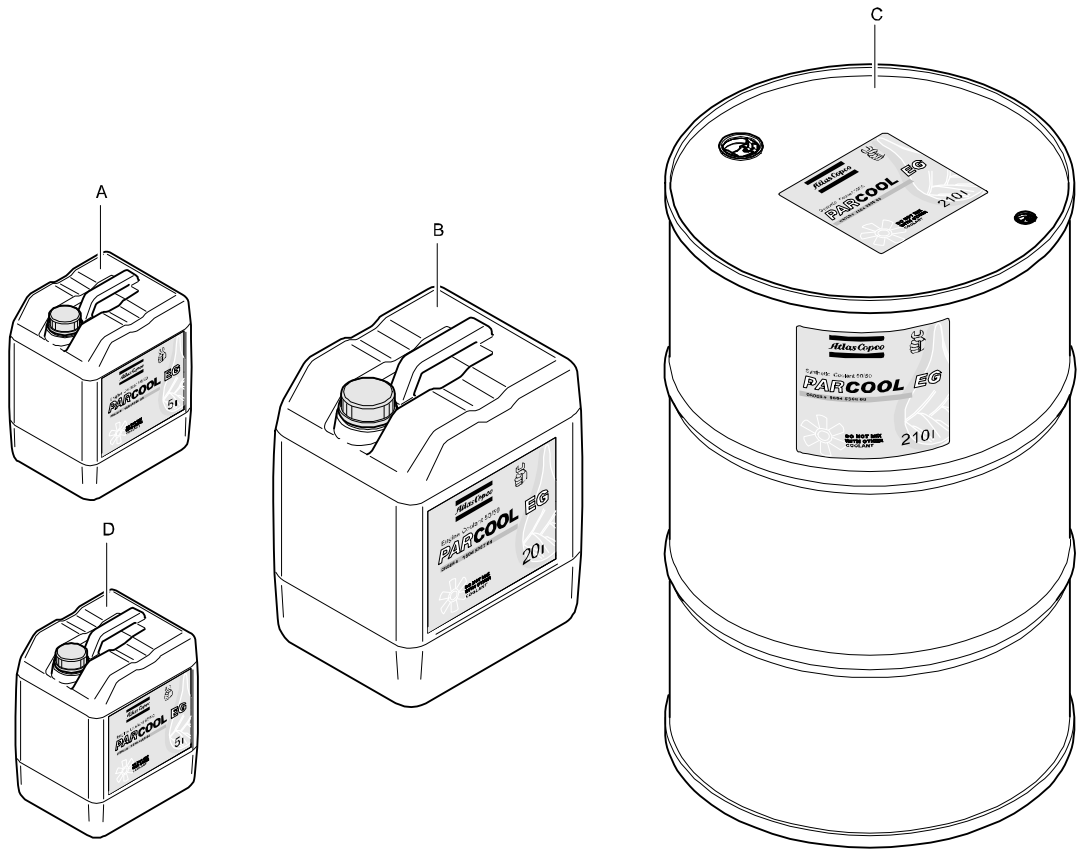
ENGINE OIL - PAROIL E MISSION GREEN



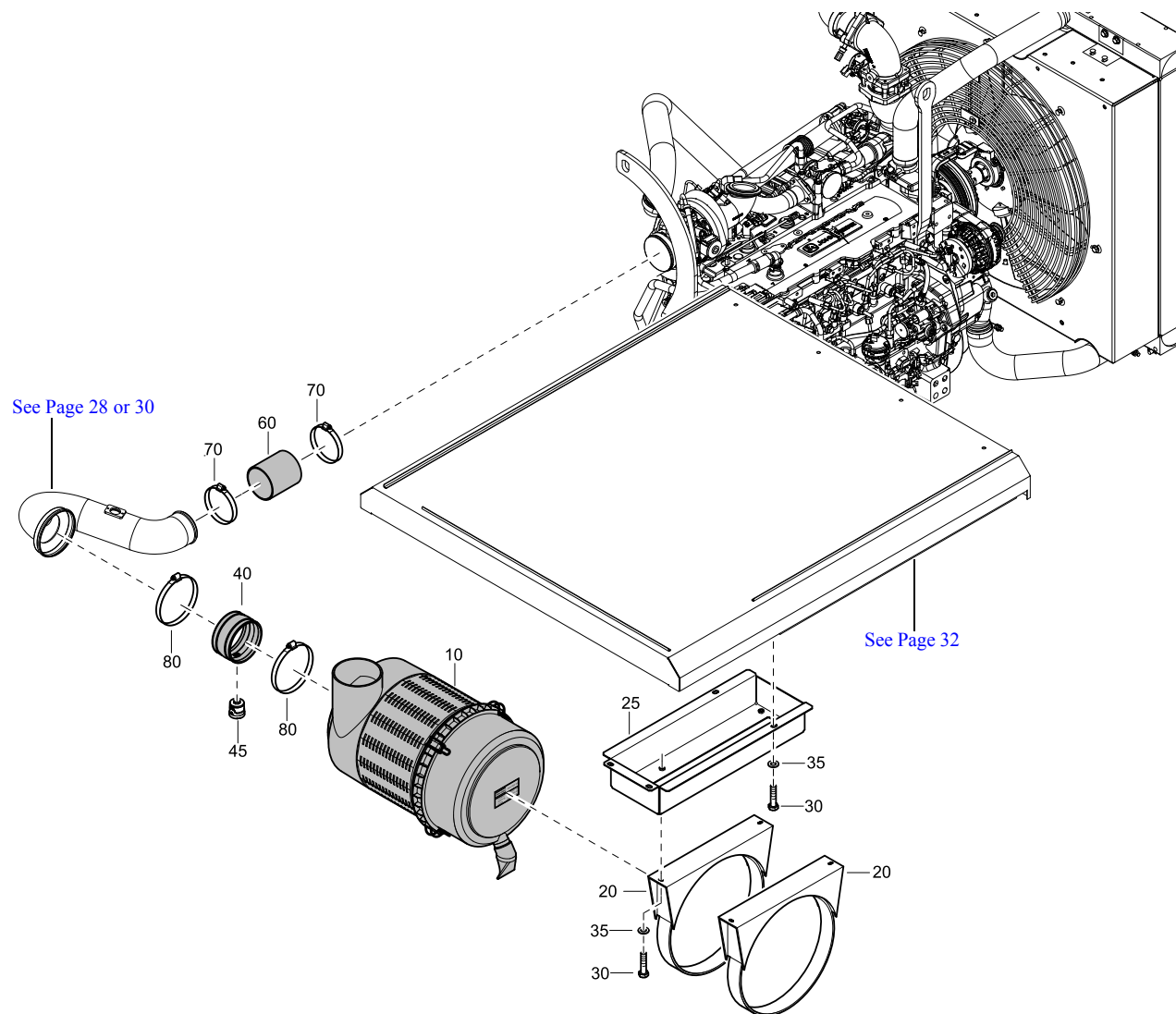
REF	PART NUMBER	DESIGNATION	QTY
A	1630 0471 00	OIL CAN 5 L	1
B	1630 0472 00	OIL CAN 20 L	1
C	1630 0473 00	STEEL DRUM 209 L	1

ENGINE COOLANT - PARCOOL EG

REF	PART NUMBER	DESIGNATION	QTY
A	1604 5308 00	1.3 - GALLON (5 LITER) CONTAINER	1
B	1604 5307 01	5.3 - GALLON (20 LITER) PAIL	1
C	1604 5306 00	55 GALLON (209 LITER) DRUM	1
D	1604 8159 00	CONCENTRATE 5 LITER CAN	1

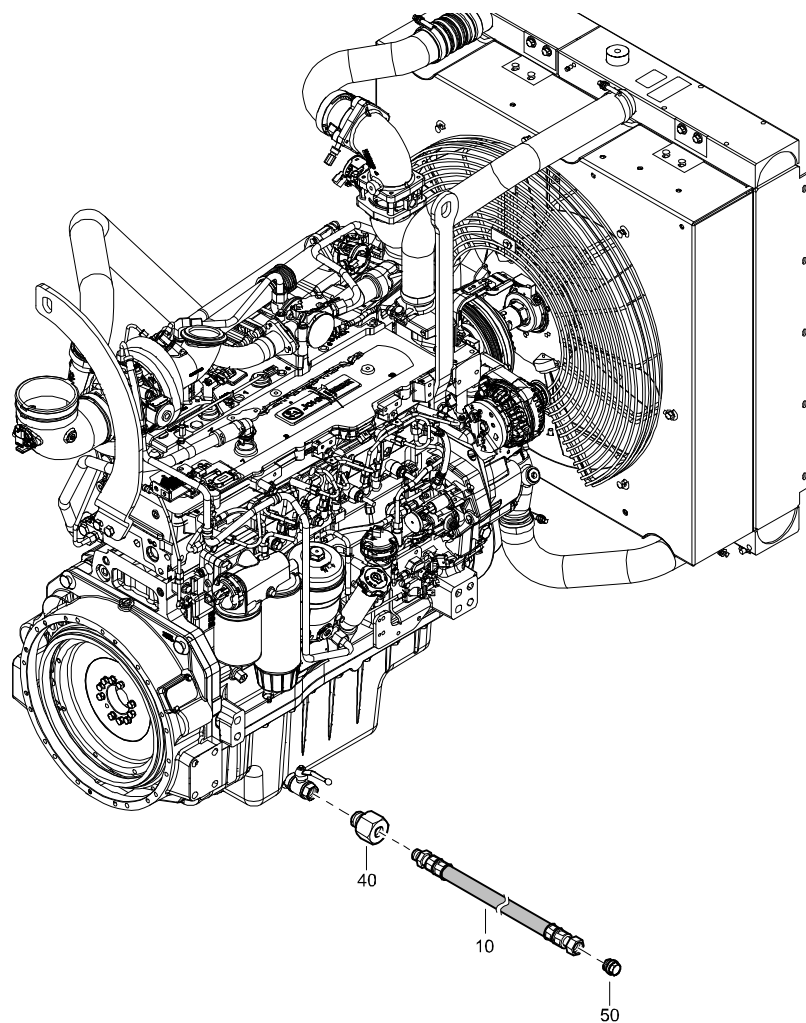


AIR INLET - STANDARD

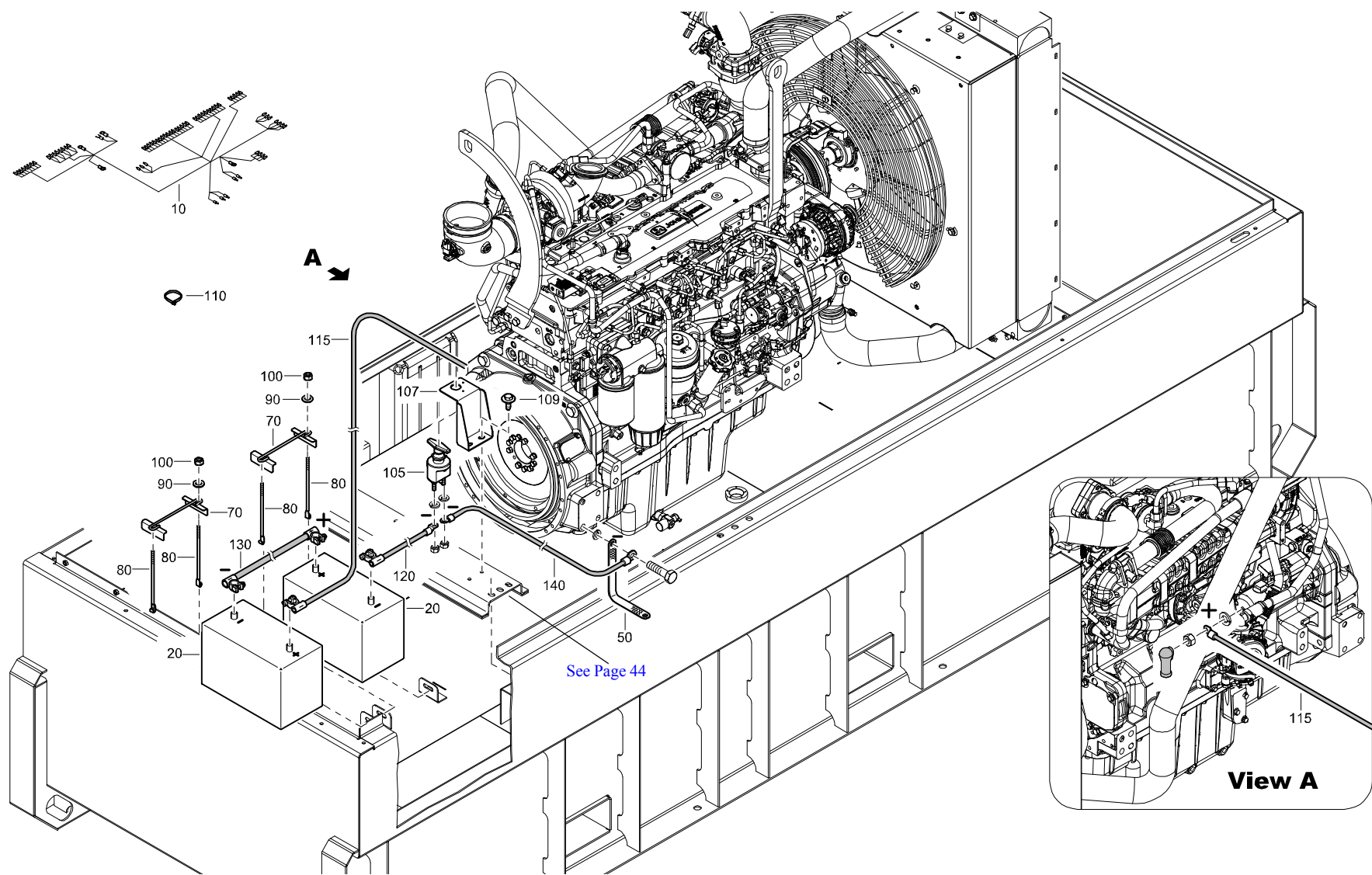


REF	PART NUMBER	DESIGNATION	QTY
10	1604 7697 00	AIR FILTER	1
20	1614 9368 00	BRACKET AIR FILTER	2
25	1310 6319 00	BRACKET AIR FILTER SUPPORT	1
30	0147 1327 03	HEX HEAD SCREW	8
35	0301 2335 00	FLAT WASHER	8
40	1310 0724 36	HOSE SLEEVE	1
45	1310 0724 37	INDICATOR RESTRICTION	1
60	1604 0145 00	HOSE SLEEVE	1
70	0347 6100 23	HOSE CLAMP	2
80	0347 6121 00	HOSE CLAMP	2

DRAINS - STANDARD

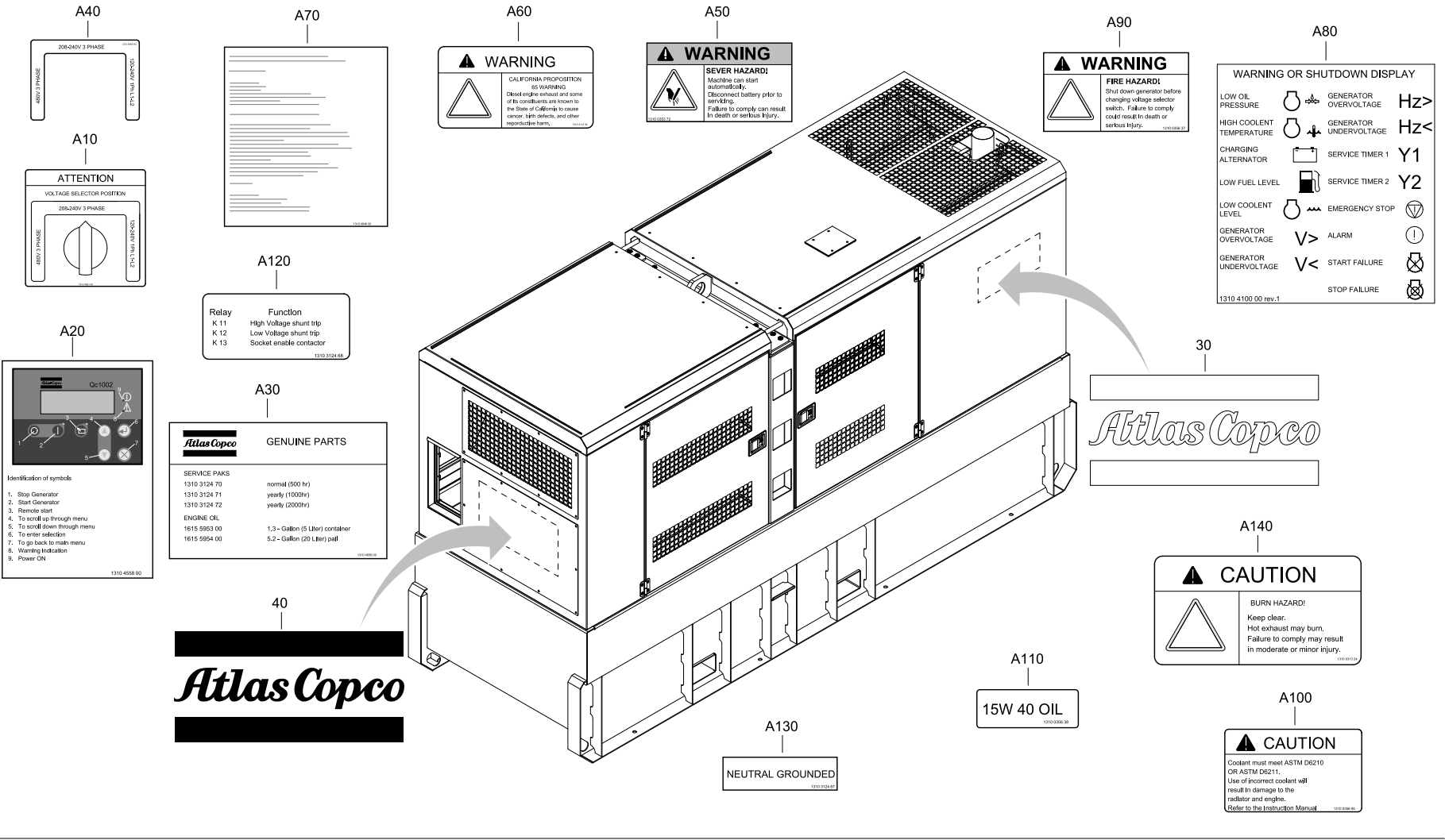


REF	PART NUMBER	DESIGNATION	QTY
10	1310 6000 25	HOSE ASSY ENGINE OIL DRAIN	1
40	1310 0724 41	ADAPTER	1
50	1310 0355 25	PLUG-PIPE	1



ELECTRICAL SYSTEM - STANDARD

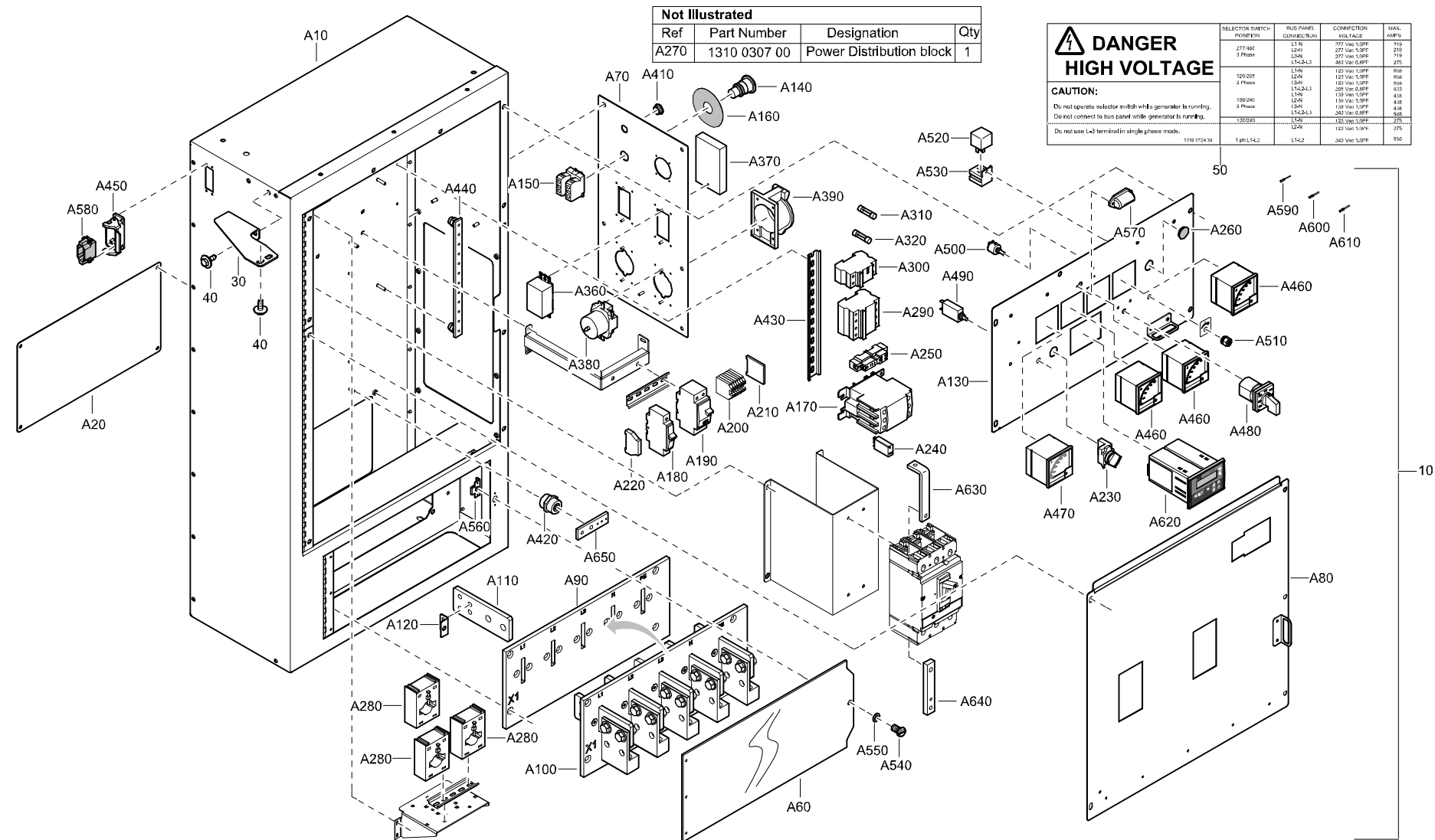
REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
10	1310 6236 00	WIRE HARNESS	1								
20	1310 0310 89	BATTERY	2								
50	1310 4246 00	STRAP GROUND	1								
70	1310 0311 66	BATTERY CLAMP	2								
80	1310 0311 67	J BOLT	4								
90	0301 2344 00	FLAT WASHER	4								
100	0268 3205 00	HEX NUT	4								
105	1089 0584 01	BATTERY SWITCH	1								
107	1310 6325 00	BRACKET BATTERY SWITCH	1								
109	1615 5664 00	SCRAPPER BOLT	2								
110	1088 1301 02	CABLE TY	10								
115	1310 6000 82	BATTERY CABLE POSITIVE	1								
120	1310 3128 61	BATTERY CABLE TO SWITCH	1								
130	1310 6000 84	BATTERY CABLE POST	1								
140	1310 6000 85	BATTERY CABLE NEGATIVE	1								



LABEL - STANDARD

REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
20	1310 4557 00	LABEL SHEET	1								
•A10	1310 4561 00	LABEL SELECTOR SW POSITION	1								
•A20	1310 4558 00	LABEL QC1002 OPERATING INST	1								
•A30	1310 4559 00	LABEL GENUINE PARTS	1								
•A40	1310 4560 00	LABEL SELECTOR SW VOLTAGES	1								
•A50	1310 0353 72	LABEL WARNING -UNIT CAN START	2								
•A60	1310 3112 36	LABEL CALIFORNIA EMISSIONS	1								
•A70	1310 4946 00	LABEL OPERATING INSTRUCTION	1								
•A80	1310 4100 00	LABEL QC1001 OPERATING	1								
•A90	1310 0356 37	LABEL WARNING ALTERNATOR	1								
•A100	1310 0356 95	LABEL COOLANT MUST MEET ASTM D	1								
•A110	1310 0356 38	LABEL OIL FILL TYPE	1								
•A120	1310 3124 68	LABEL QAS RELAY FUNCTION	1								
•A130	1310 3124 67	LABEL NEUTRAL GROUNDED	1								
•A140	1310 0313 24	LABEL CAUTION HOT EXHAUST	1								
30	0690 1150 01	LABEL LOGO WHITE	2								
40	0690 1150 00	LABEL LOGO BLACK	2								

CUBICLE ASSEMBLY - QAS 250 - STANDARD

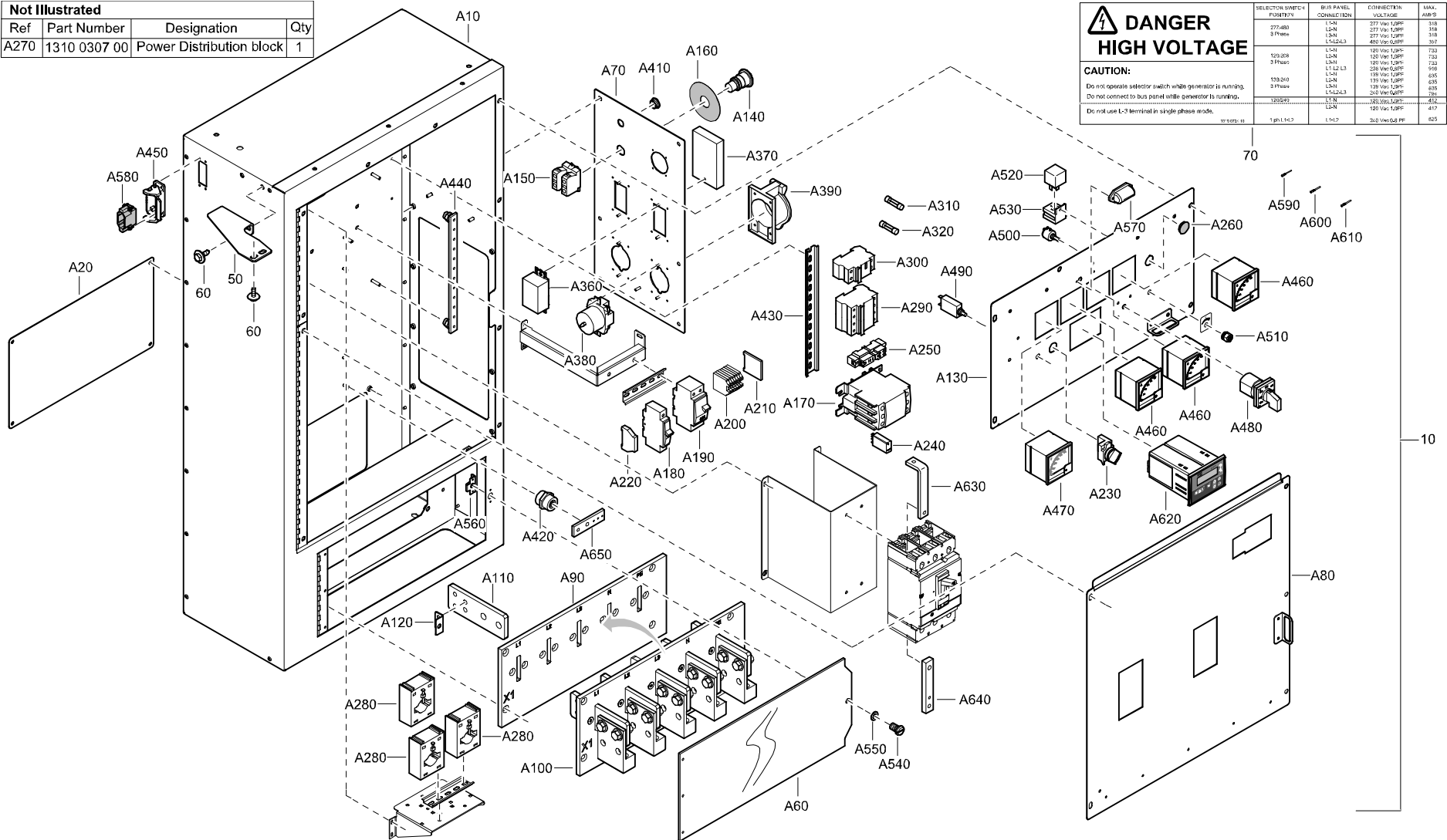


CUBICLE ASSEMBLY - QAS 250 - STANDARD

REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
10	1310 4874 90	CUBICLE ASSY	1	•A470	1089 9383 01	VOLTMETER	1				
•A10	1310 4874 00	CUBICLE	1	•A480	1089 9082 22	BATTERY SWITCH	1				
•A20	1310 4875 00	PLATE CUBICLE	1	•A490	1089 9423 01	FUSE	1				
•A60	1310 4885 00	DOOR PLEXI GLASS	1	•A500	1089 9371 21	POTMETER	1				
•A70	1310 4886 00	PANEL SOCKET	1	•A510	1089 9371 50	LOCK	1				
•A80	1310 4887 00	PANEL	1	•A520	1310 0306 62	RELAY	2				
•A90	1310 4888 00	TERMINAL BOARD	1	•A530	1310 0306 63	RELAY BASE	2				
•A100	1310 4888 80	TERMINAL BOARD ASSY	1	•A540	1615 7166 00	STUD	1				
•A110	1310 4601 00	TERMINAL	1	•A550	1615 6727 00	WASHER	1				
•A120	1310 4602 00	BRACKET	1	•A560	1615 6728 00	PLATE	1				
•A130	1310 4609 00	DOOR CONTROL PANEL	1	•A570	1310 0307 18	LIGHT PETERSEN	1				
•A140	1310 0306 47	EMERGENCY STOP	1	•A580	1088 0029 45	INSERT MALE	1				
•A150	1310 0306 48	CONTACT BLOCK	1	•A590	1088 0029 61	CONTACT MALE	5				
•A160	1310 0306 49	LABEL EMERGENCY STOP	1	•A600	1088 0029 56	CONTACT MALE	1				
•A170	1310 0306 50	CONTACTOR	1	•A610	1088 0029 55	CONTACT MALE	3				
•A180	1310 0306 51	CIRCUIT BREAKER	2	•A620	1604 9418 00	CONTROLLER QC1002	1				
•A190	1310 0306 52	CIRCUIT BREAKER	2	•A630	1310 0307 19	BUSBAR LINE SIDE Q1.1	3				
•A200	1310 0306 53	TERMINAL BLOCK	5	•A640	1310 0307 20	BUSBAR LOAD SIDE Q1.1	3				
•A210	1310 0306 54	BARRIER TERMINAL BLOCK	1	•A650	1310 0307 21	BUSBAR NEUTRAL	1				
•A220	1310 0306 55	TERMINAL END STOP	2	30	1310 4932 00	BRACKET CUBICLE SUPPORT	1				
•A230	1089 0263 27	SELECTOR SWITCH	1	40	1615 5664 00	SCRAPPER BOLT	4				
•A240	1310 0306 56	RELAY	2	50	1310 0724 39	LABEL POWER RATINGS	1				
•A250	1310 0306 57	RELAY BASE	2								
•A260	1310 0307 16	PLUG SCHNEIDER	1								
•A270	1310 0307 00	BLOCK POWER DISTRIBUTION	1								
•A280	1089 9484 02	CURRENT TRANSFORMER	3								
•A290	1310 0306 58	FUSEHOLDER	1								
•A300	1310 0306 59	FUSEHOLDER	1								
•A310	1310 0307 17	FUSE BUSSMAN	3								
•A320	1310 0306 60	FUSE	2								
•A360	1089 9412 01	RECEPTACLE	2								
•A370	1089 9412 11	PROTECTION	2								
•A380	1089 9412 02	RECEPTACLE	2								
•A390	1089 9412 12	PROTECTION	2								
•A410	0697 9810 58	PLUG	1								
•A420	1089 9385 03	ISOLATOR	1								
•A430	0993 7106 00	RAIL DIN MOUNTING	3								
•A440	1310 0306 61	ISOLATOR	1								
•A450	1088 0029 50	HOUSING	1								
•A460	1089 9381 21	AMMETER	3								

CUBICLE ASSEMBLY - QAS 330 - STANDARD

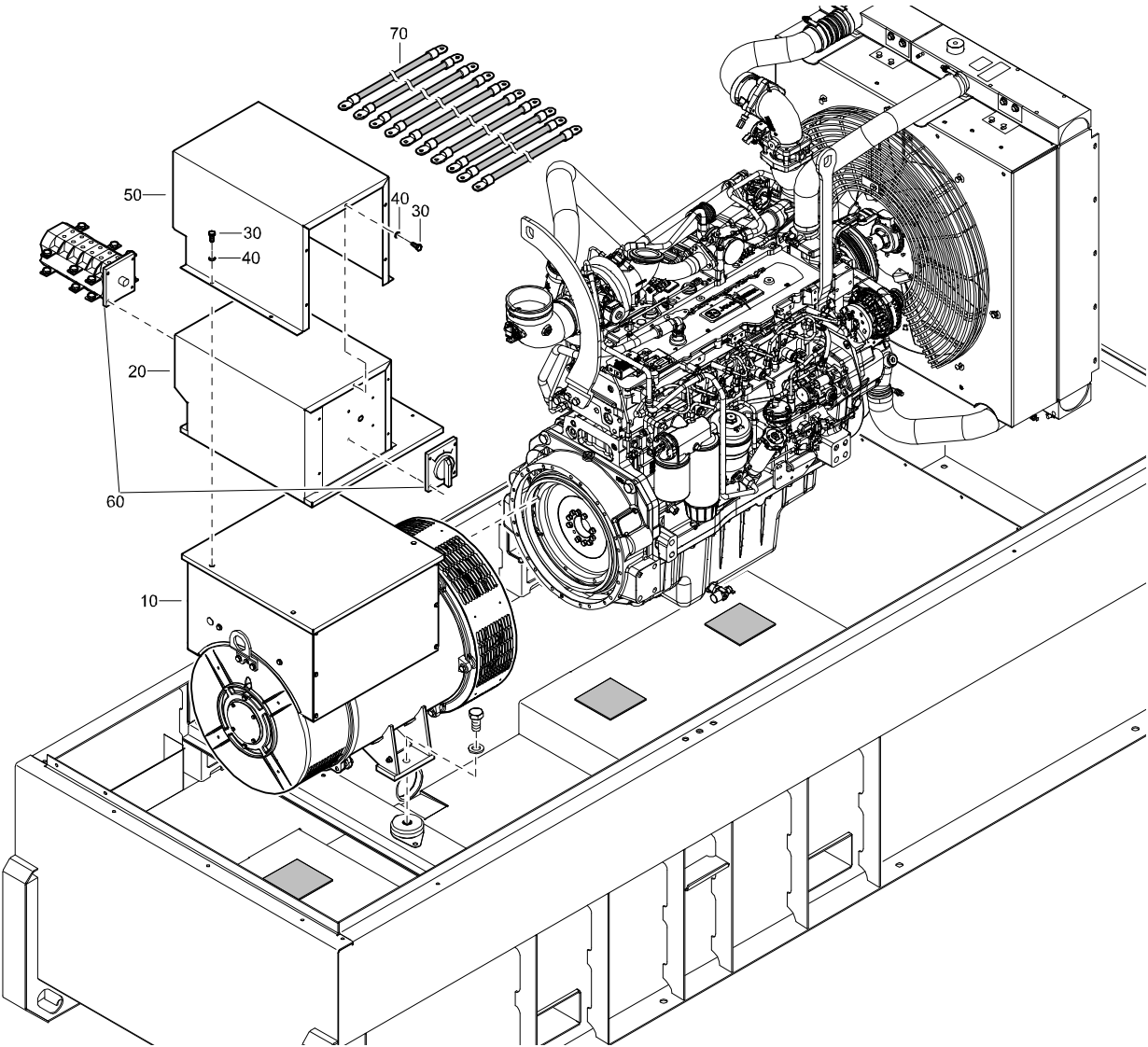
Not Illustrated			
Ref	Part Number	Designation	Qty
A270	1310 0307 00	Power Distribution block	1



CUBICLE ASSEMBLY - QAS 330 - STANDARD

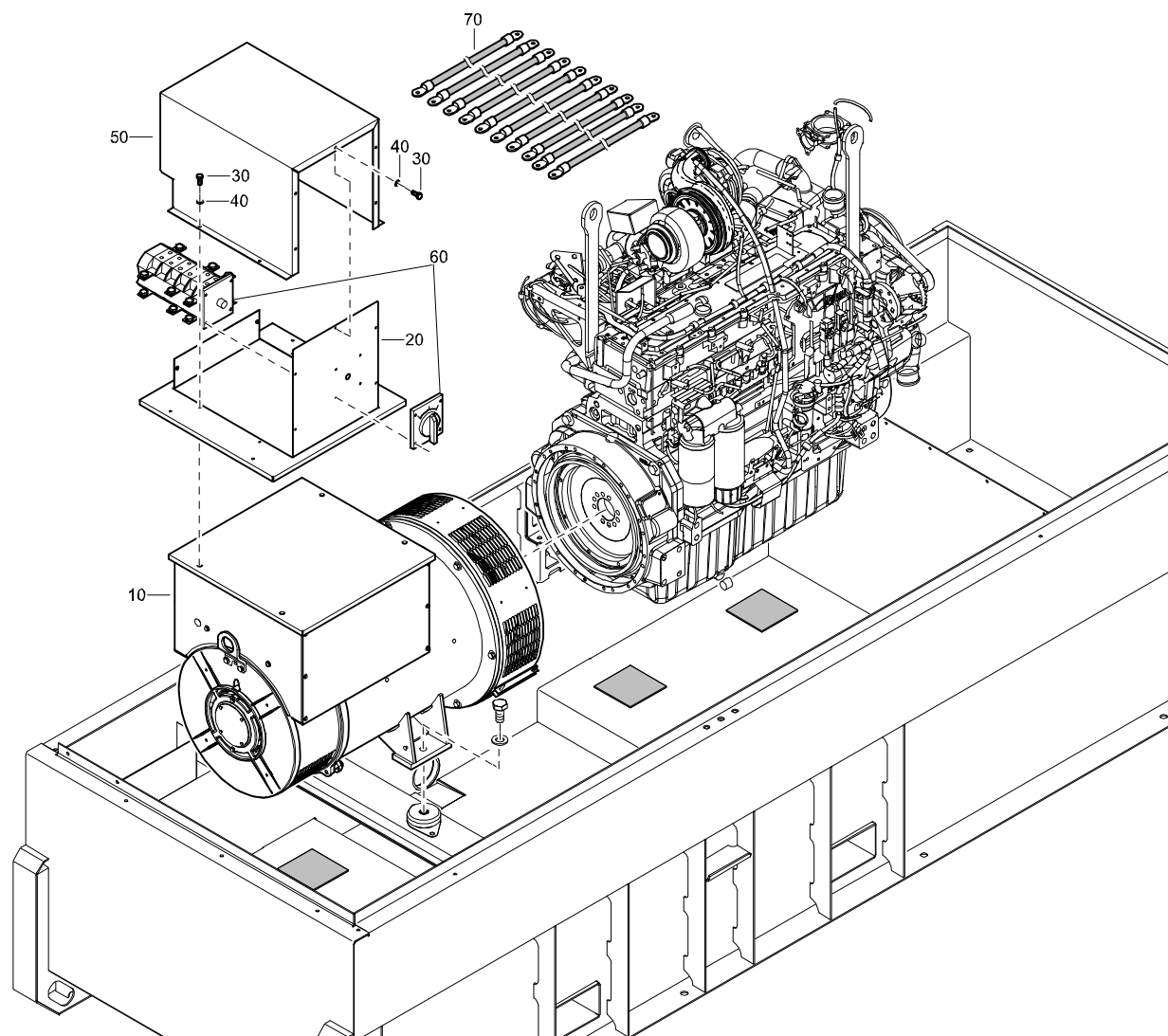
REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
10	1310 4874 80	CUBICLE ASY	1	•A460	1089 9381 21	AMMETER	3				
•A10	1310 4874 00	CUBICLEBOX	1	•A470	1089 9383 01	VOLTMETER	1				
•A20	1310 4875 00	CUBICLE PLATE	1	•A480	1089 9082 22	SWITCH	1				
•A60	1310 4885 00	DOOR	1	•A490	1089 9423 01	FUSE	1				
•A70	1310 4886 00	PANEL SOCKET	1	•A500	1089 9371 21	POTMETER	1				
•A80	1310 4887 00	PANEL	1	•A510	1089 9371 50	LOCK	1				
•A90	1310 4888 00	TERMINAL BOARD	1	•A520	1310 0306 62	RELAY	2				
•A100	1310 4888 80	TERMINAL BOARD	1	•A530	1310 0306 63	RELAY BASE	2				
•A110	1310 4601 00	TERMINAL	1	•A540	1615 7166 00	STUD	1				
•A120	1310 4602 00	BRACKET	1	•A550	1615 6727 00	WASHER	1				
•A130	1310 4609 00	DOOR	1	•A560	1615 6728 00	PLATE	1				
•A140	1310 0306 47	EMERGENCY STOP	1	•A570	1310 0307 18	LIGHT PETERSEN	1				
•A150	1310 0306 48	CONTACT BLOCK	1	•A580	1088 0029 45	INSERT MALE	1				
•A160	1310 0306 49	LABEL EMERGENCY STOP	1	•A590	1088 0029 61	CONTACT MALE	5				
•A170	1310 0306 50	CONTACTOR	1	•A600	1088 0029 56	CONTACT MALE	1				
•A180	1310 0306 51	CIRCUIT BREAKER	2	•A610	1088 0029 55	CONTACT MALE	3				
•A190	1310 0306 52	CIRCUIT BREAKER	2	•A620	1604 9418 00	CONTROLLER	1				
•A200	1310 0306 53	TERMINAL BLOCK	5	•A630	1310 0307 19	BUSBAR LINE SIDE	3				
•A210	1310 0306 54	BARRIER TERMINAL BLOCK	1	•A640	1310 0307 20	BUSBAR LOAD SIDE	3				
•A220	1310 0306 55	TERMINAL	2	•A650	1310 0307 21	BUSBAR NEUTRAL	1				
•A230	1089 0263 27	SELECTOR SWITCH	1	50	1310 4932 00	BRACKET CUBICLE SUPPORT	1				
•A240	1310 0306 56	RELAY	2	60	1615 5664 00	BOLT-SCRAPER	4				
•A250	1310 0306 57	RELAY BASE	2	70	1310 0724 40	LABEL POWER RATINGS	1				
•A260	1310 0307 16	PLUG	1								
•A270	1310 0307 00	BLOCK POWER DISTRIBUTION	1								
•A280	1089 9484 02	CURRENT TRANSFORMER	3								
•A290	1310 0306 58	FUSE HOLDER	1								
•A300	1310 0306 59	FUSE HOLDER	1								
•A310	1310 0307 17	FUSE	3								
•A320	1310 0306 60	FUSE	2								
•A350	1626 2302 00	DOOR PLEXIGLASS	1								
•A360	1089 9412 01	RECEPTACLE	2								
•A370	1089 9412 11	PROTECTION	2								
•A380	1089 9412 02	RECEPTACLE	2								
•A390	1089 9412 12	PROTECTION	2								
•A410	0697 9810 58	PLUG	1								
•A420	1089 9385 03	ISOLATOR	1								
•A430	0993 7106 00	RAIL	3								
•A440	1310 0306 61	ISOLATOR	1								
•A450	1088 0029 50	HOUSING	1								

ALTERNATOR ASSEMBLY - QAS 250 - STANDARD

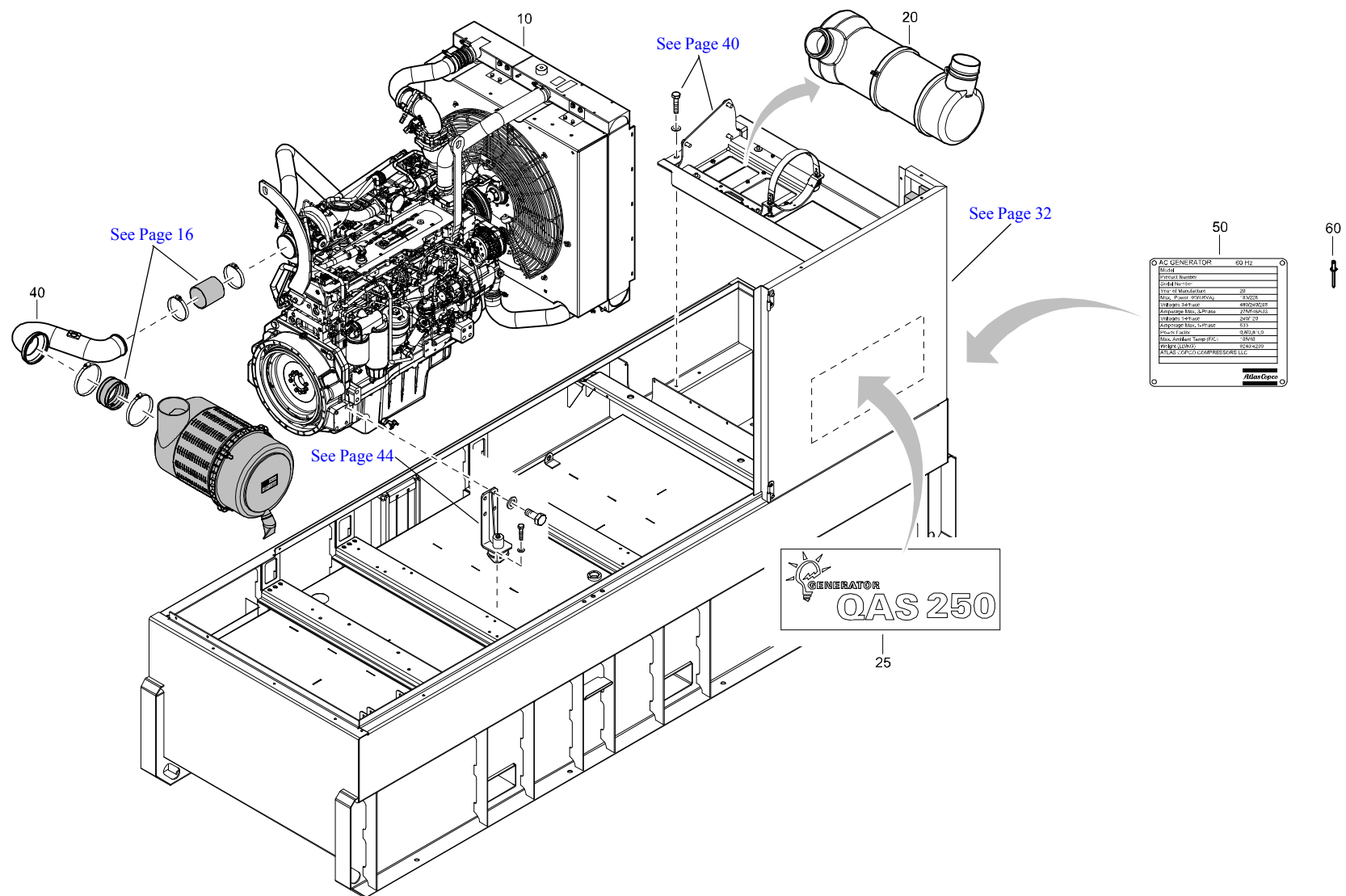


REF	PART NUMBER	DESIGNATION	QTY
10	1310 6066 11	ALTERNATOR	1
20	1310 6263 00	HOUSING ALTERNATOR SWITCH	1
30	0147 1204 03	HEX HEAD SCREW	11
40	0301 2318 00	FLAT WASHER	11
50	1310 6288 00	COVER SWITCH	1
60	1089 9082 37	SWITCH ALTERNATOR	1
70	1310 6657 00	WIRE SET	1

ALTERNATOR ASSEMBLY - QAS 330 - STANDARD

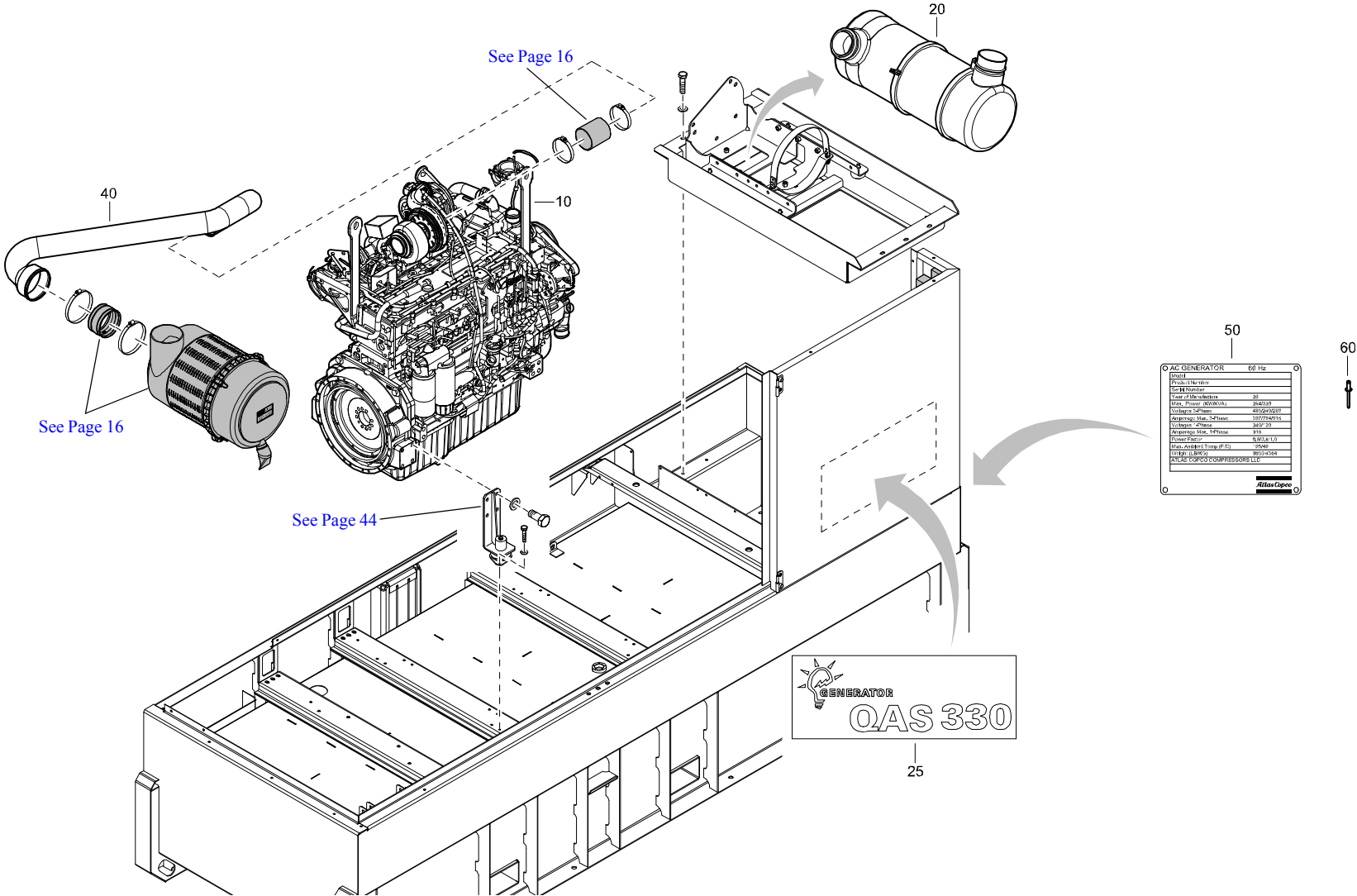


REF	PART NUMBER	DESIGNATION	QTY
10	1310 6066 12	ALTERNATOR	1
20	1310 6264 00	HOUSING	1
30	0147 1204 03	HEX HEAD SCREW	11
40	0301 2318 00	WASHER	11
50	1310 6288 00	COVER	1
60	1089 9082 37	SWITCH ALTERNATOR	1
70	1310 6657 00	WIRE SET	1



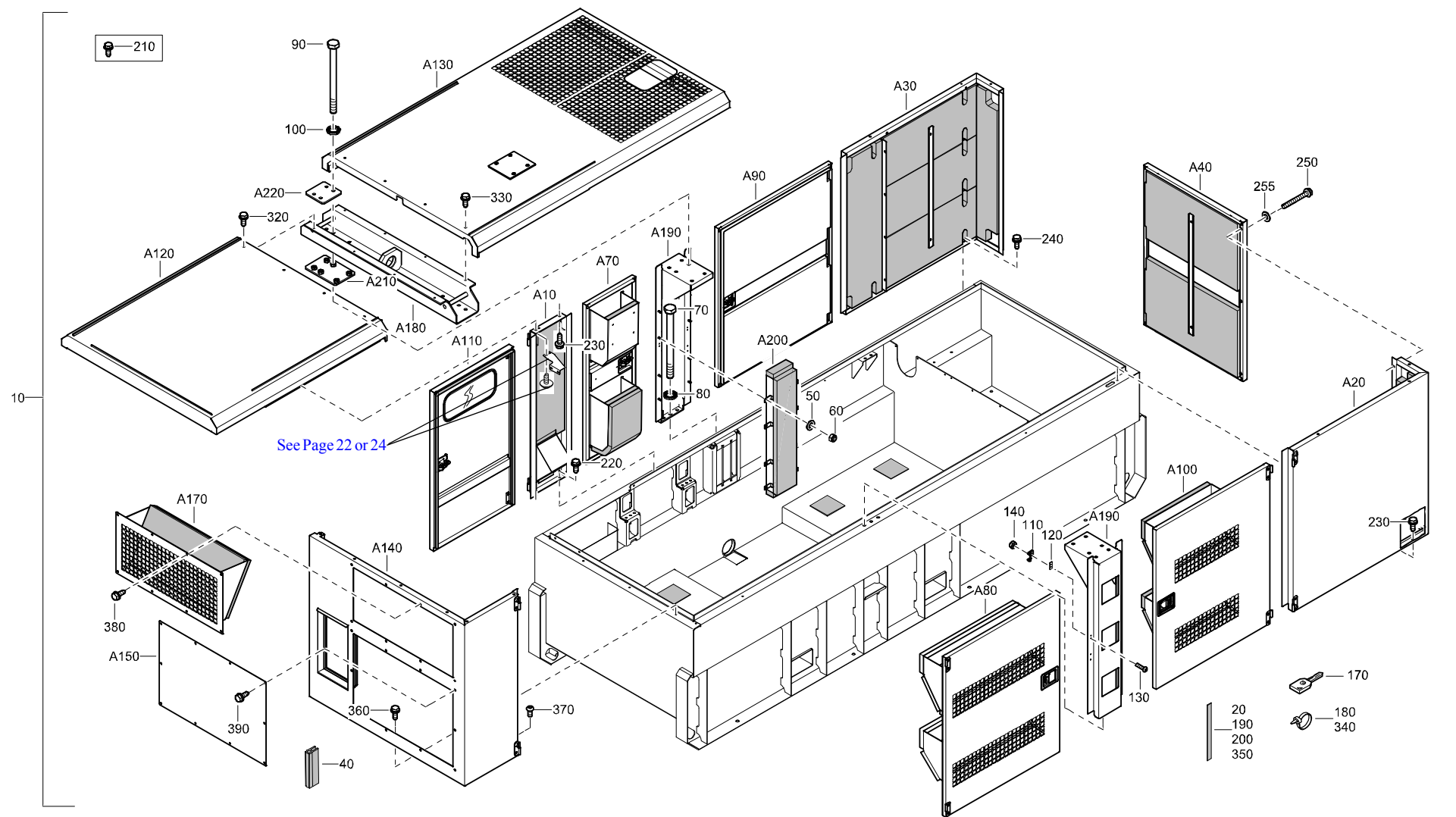
ENGINE - QAS 250 - STANDARD

REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
10	1310 0721 58	ENGINE-DIESEL	1								
20	1310 0722 57	AFTER TREATMENT SYSTEM	1								
25	1310 0724 33	LABEL MODEL DESIGNATION	2								
40	1310 6317 00	PIPE AIR INLET	1								
50	1310 0721 71	DATA PLATE	1								
60	1310 0361 69	RIVET-POP	4								



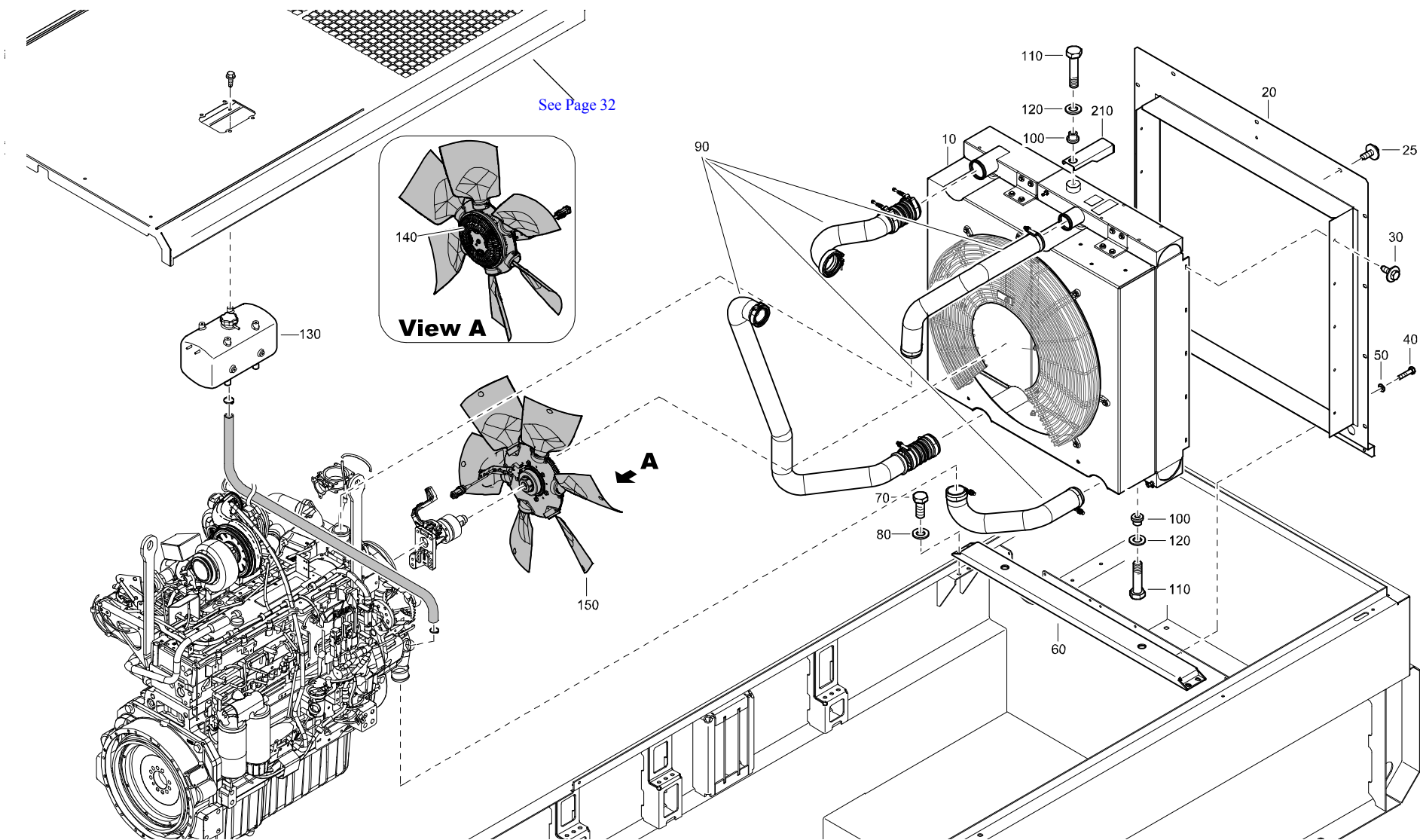
ENGINE - QAS 330 - STANDARD

REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
10	1310 0721 59	ENGINE DIESEL	1								
20	1310 0722 58	AFTERTREATMENT SYSTEM	1								
40	1310 6316 00	PIPE AIR INLET	1								
60	1310 0724 34	LABEL MODEL DESIGNATION	2								
50	1310 0721 72	DATAPLATE	1								
60	1310 0361 69	RIVET-POP	4								



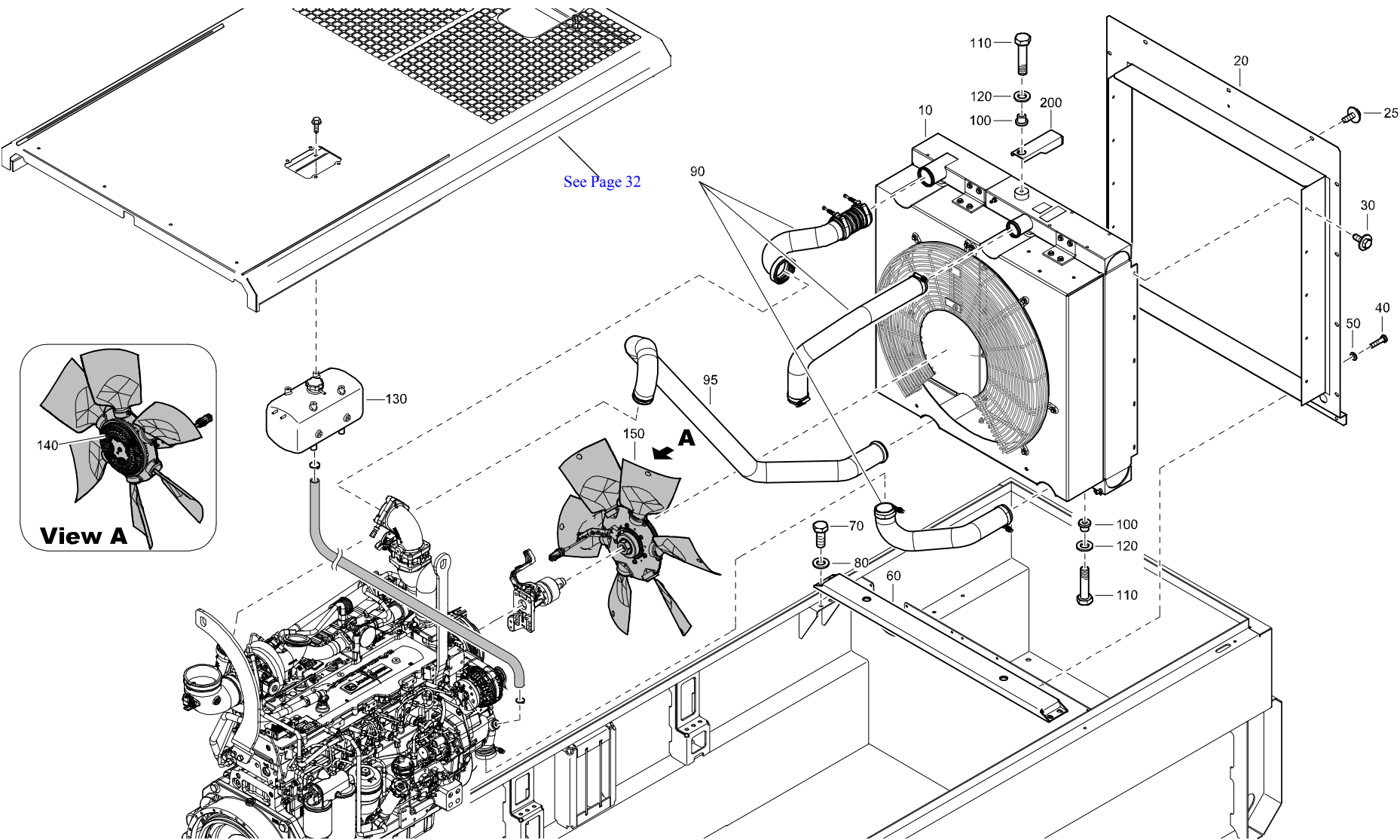
BODYWORK - STANDARD

REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
10	1310 0765 01	CANOPY KIT	1	60	0291 1110 00	LOCKNUT	16				
•A10	1310 4904 80	PANEL ASSY FUEL FILL (For details see page 46)	1	70	0147 1480 03	HEX HEAD SCREW	6				
•A20	1310 4905 80	PANEL ASSY CORNER RIGHT (For details see page 47)	1	80	3315 0195 10	LOCK WASHER	6				
•A30	1310 4906 80	PANEL ASSY CORNER LEFT (For details see page 48)	1	90	0147 1480 03	HEX HEAD SCREW	12				
•A40	1310 4907 80	DOOR ASSY SERVICE FRONT ACCESS (For details see page 49)	1	100	3315 0195 10	LOCK WASHER	12				
•A70	1310 4909 80	DOOR ASSY SMALL (For details see page 50)	1	110	1604 5031 00	BRACKET DOOR CATCH	4				
•A80	1310 4910 80	DOOR ASSY LARGE ALTERNATOR ACCESS (For details see page 51)	1	120	1310 4019 00	SPACER DOOR CATCH	4				
•A90	1310 4911 80	DOOR ASSY LARGE AIR INLET (For details see page 52)	1	130	0215 0006 30	BUTTON HEAD SCREW	8				
•A100	1310 4912 80	DOOR ASSY LARGE RIGHT FRONT (For details see page 53)	1	140	0291 1108 00	LOCKNUT	8				
•A110	1310 4913 80	DOOR ASSY CUBICLE (For details see page 54)	1	170	1615 7271 00	KEY	2				
•A120	1310 4914 80	ROOF ASSY REAR (For details see page 55)	1	180	1088 1301 03	CABLE TY	1				
•A130	1310 4915 80	ROOF ASSY FRONT (For details see page 56)	1	190	1615 7057 00	SEAL	7				
•A140	1310 4916 80	PANEL ASSY REAR CORNER (For details see page 57)	1	200	1615 7057 00	SEAL	AR				
•A150	1310 4917 80	PLATE ASSEMBLY REAR ACCESS (For details see page 58)	1	210	1619 2766 00	SELF TAP SCREW	8				
•A170	1310 4918 80	BAFFLE ASSY AIR INLET (For details see page 61)	1	220	1619 2766 00	SELF TAP SCREW	2				
•A180	1310 4920 00	BEAM HORIZONTAL LIFTING	1	230	1619 2766 00	SELF TAP SCREW	3				
•A190	1310 4921 00	BEAM VERTICAL LIFTING	2	240	1619 2766 00	SELF TAP SCREW	3				
•A200	1310 4922 80	PLATE ASSEMBLY BEAM COVER (For details see page 62)	2	250	1619 2766 02	SCREW	3				
•A210	1310 4923 00	PLATE LIFTING REINFORCEMENT	2	255	0301 2335 00	FLAT WASHER	3				
•A220	1310 4924 00	PLATE LIFTING REINFORCEMENT	2	270	1615 5664 00	SCRAPPER BOLT	8				
20	1615 7057 00	SEAL	AR	280	1619 2766 00	SELF TAP SCREW	4				
40	1202 6584 00	SEAL-EDGE	AR	290	1619 2766 00	SELF TAP SCREW	4				
50	0301 2335 00	FLAT WASHER	16	300	1615 5664 00	SCRAPPER BOLT	2				
				310	0129 3172 01	POP RIVET	4				
				320	1619 2766 00	SELF TAP SCREW	9				
				330	1619 2766 00	SELF TAP SCREW	10				
				340	1088 1301 03	CABLE TY	1				
				350	1615 7057 00	SEAL	7				
				360	1619 2766 00	SELF TAP SCREW	5				
				370	0215 0003 77	BUTTON HEAD SCREW	2				
				380	1619 2766 00	SELF TAP SCREW	8				
				390	1619 2766 00	SELF TAP SCREW	10				



COOLING SYSTEM - QAS 330 - STANDARD

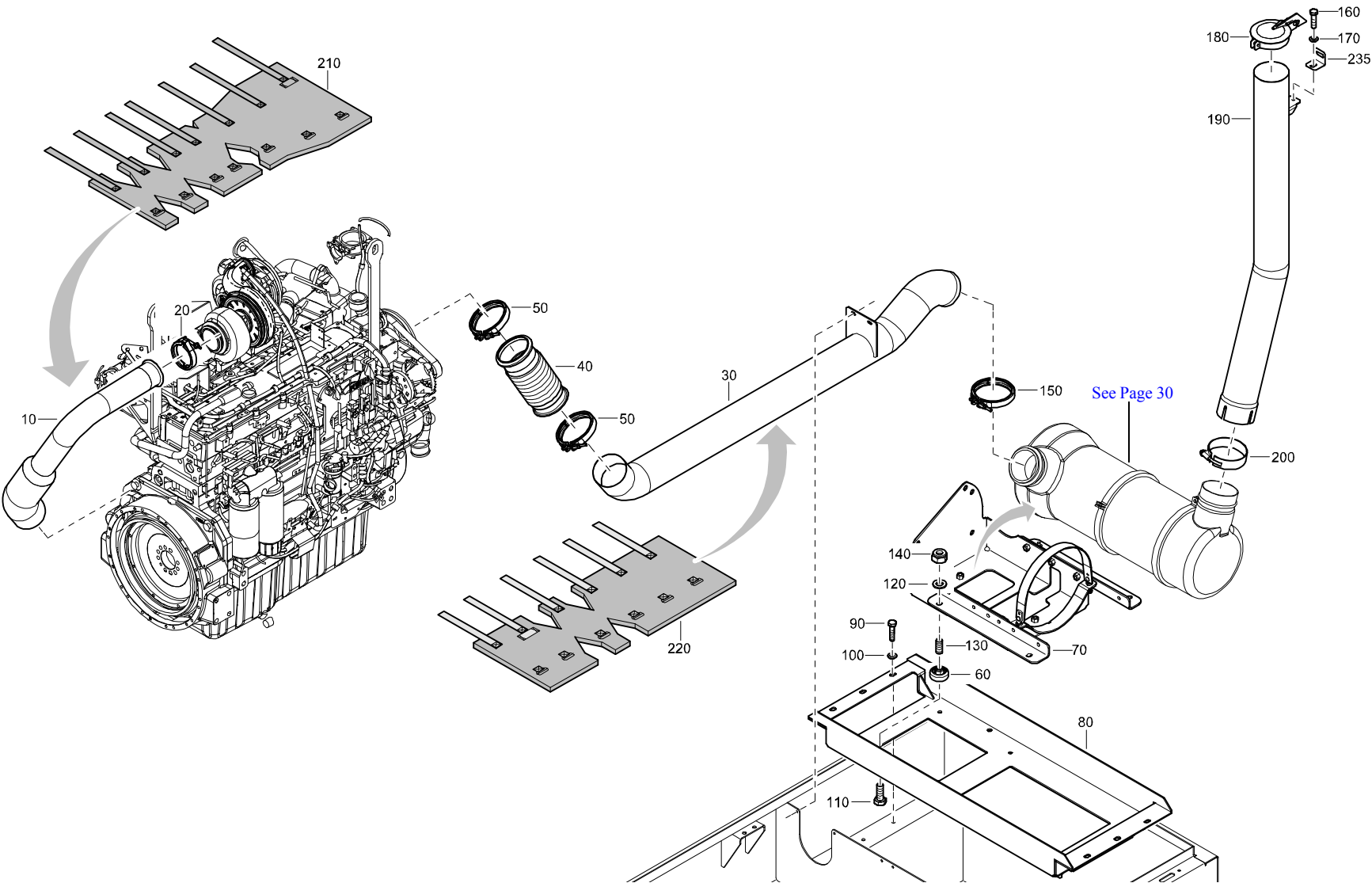
REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
10	1310 6607 00	COOLER ASSEMBLY	1								
20	1310 4929 00	PLATE COOLER SUPPORT	1								
25	1615 5664 00	SCRAPPER BOLT	15								
30	1615 5664 00	BOLT SCRAPER	11								
40	0147 1249 03	HEX HEAD SCREW	6								
50	0301 2321 00	FLAT WASHER	6								
60	1310 6277 00	SUPPORT BEAM COOLER	1								
70	0147 1401 03	HEX HEAD SCREW	4								
80	0301 2358 00	FLAT WASHER	4								
90	1310 0722 67	PIPING KIT	1								
100	1310 0724 31	ISOLATOR COOLER PACK	3								
110	0144 3367 03	HEX HEAD SCREW	3								
120	0301 2358 00	FLAT WASHER	3								
130	1310 0723 03	TOP TANK	1								
140	1310 0723 15	FAN DRIVE	1								
150	1310 0722 49	FAN	1								
210	1310 6548 00	SUPPORT RADIATOR TOP	1								



COOLING SYSTEM - QAS 250 - STANDARD

REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
10	1310 0722 65	COOLER PACK RADIATOR & CAC	1								
20	1310 4929 00	PLATE COOLER SUPPORT	1								
25	1615 5664 00	SCRAPPER BOLT	15								
30	1615 5664 00	SCRAPPER BOLT	11								
40	0147 1249 03	HEX HEAD SCREW	6								
50	0301 2321 00	FLAT WASHER	6								
60	1310 6277 00	SUPPORT BEAM COOLER	1								
70	0147 1401 03	HEX HEAD SCREW	4								
80	0301 2358 00	FLAT WASHER	4								
90	1310 0722 66	PIPING KIT	1								
95	1310 6318 00	PIPE CHARGE AIR COOLER	1								
100	1310 0724 31	ISOLATOR COOLER PACK	3								
110	0144 3367 03	HEX HEAD SCREW	3								
120	0301 2358 00	FLAT WASHER	3								
130	1310 0723 03	TOP TANK	1								
140	1310 0723 15	FAN DRIVE	1								
150	1310 0722 49	FAN	1								
200	1310 6548 00	RADIATOR TOP SUPPORT	1								

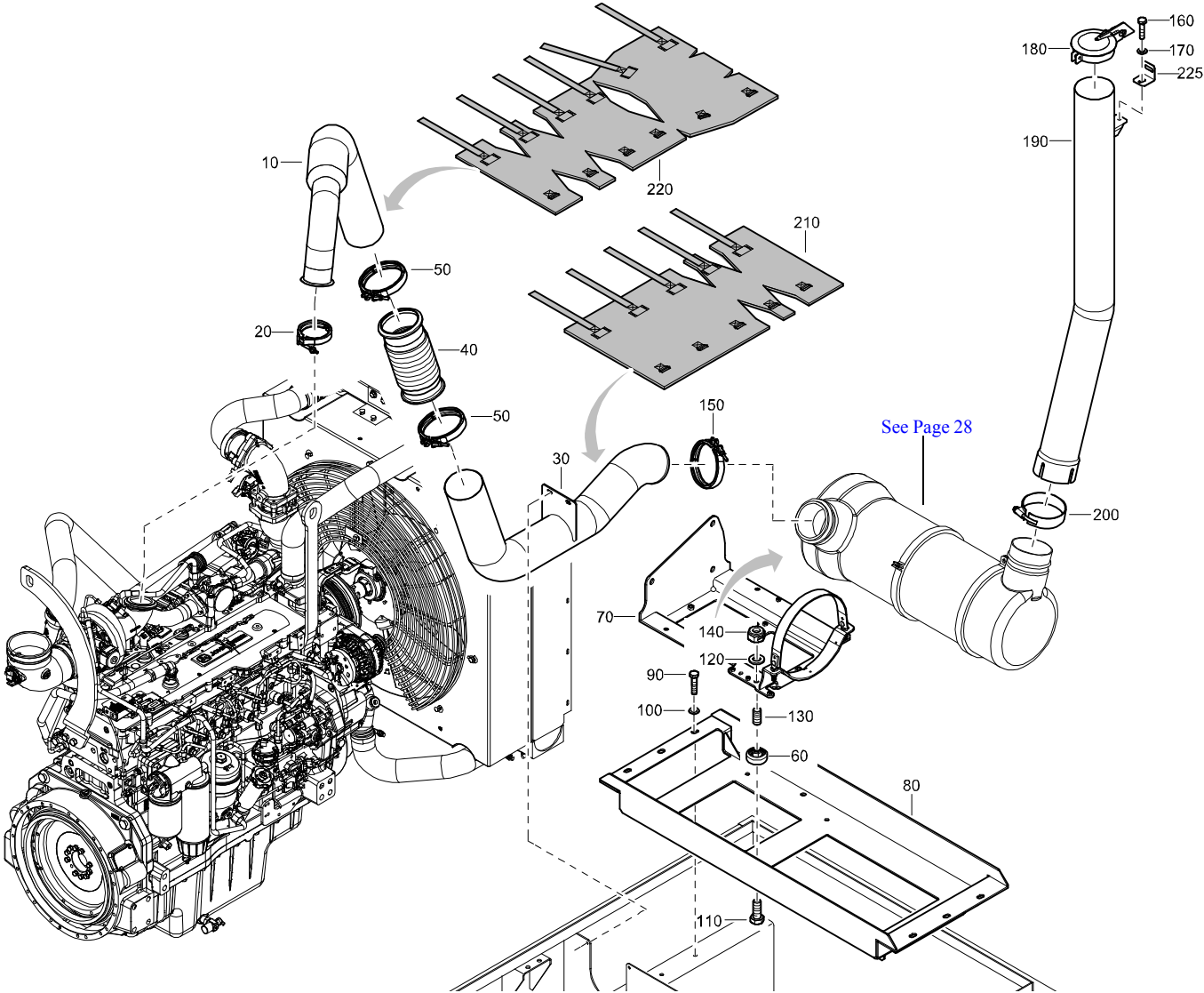
EXHAUST SYSTEM - QAS 330 - STANDARD



EXHAUST SYSTEM - QAS 330 - STANDARD

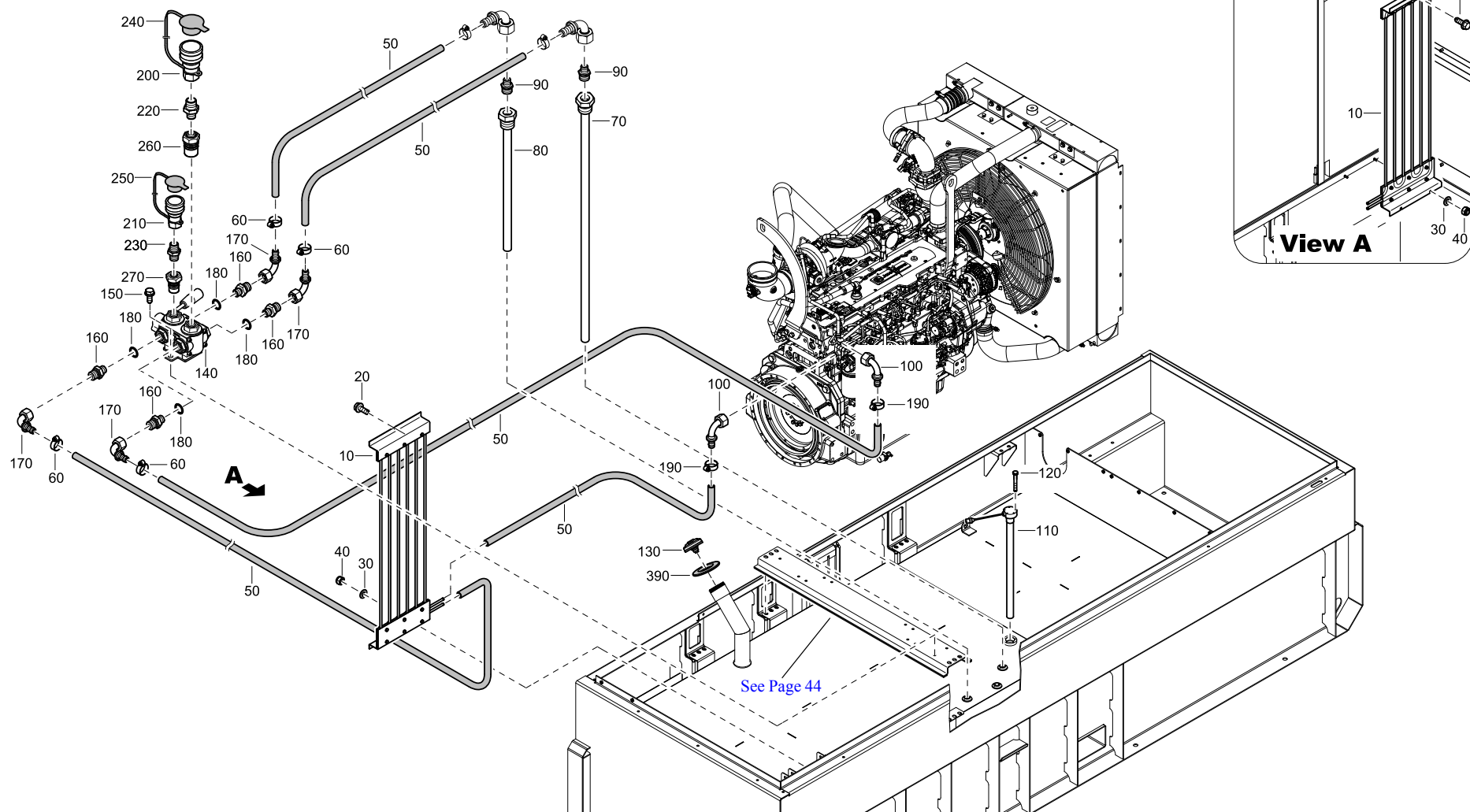
REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
10	1310 6310 00	EXHAUST PIPE	1								
20	1310 0324 68	EXHAUST CLAMP V-BAND	1								
30	1310 6311 00	EXHAUST PIPE	1								
40	1310 6546 00	PIPE-FLEX	1								
50	1310 0724 32	CLAMP	2								
60	1310 0723 20	ISOLATOR DPF MOUNT	4								
70	1310 6312 00	BRACKET-DPF	1								
80	1310 6545 00	BRACKET-DPF TO FRAME	1								
90	0147 1326 03	HEX HEAD SCREW	6								
100	0301 2335 00	FLAT WASHER	6								
110	0147 1401 03	HEX HEAD SCREW	4								
120	0301 2358 00	FLAT WASHER	4								
130	1310 0723 44	STUD	4								
140	0291 1185 01	LOCKNUT	4								
150	1310 0724 32	CLAMP	1								
160	0147 1249 03	HEX HEAD SCREW	2								
170	0301 2321 00	FLAT WASHER	2								
180	1615 8817 00	RAIN CAP EXHAUST	1								
190	1310 6309 00	EXHAUST PIPE-STACK	1								
200	1310 0723 06	EXHAUST CLAMP	1								
210	1310 6001 78	HEAT BLANKET	1								
220	1310 6001 79	HEAT BLANKET	1								
235	1310 6320 00	BRACKET EXHAUST SUPPORT	1								

EXHAUST SYSTEM - QAS 250 - STANDARD



EXHAUST SYSTEM - QAS 250 - STANDARD

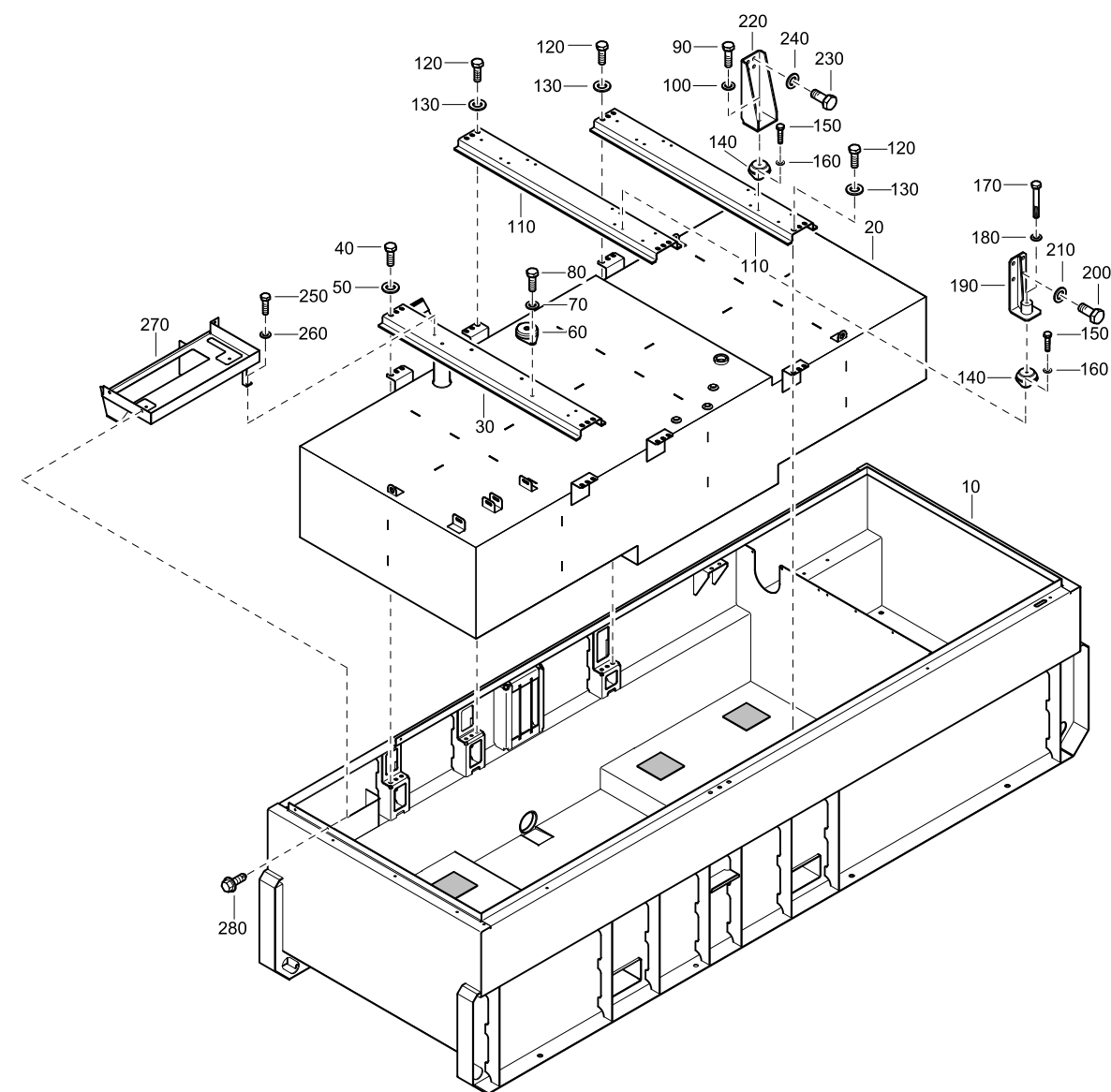
REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
10	1310 6242 00	EXHAUST PIPE	1								
20	1310 0324 68	EXHAUST CLAMP V-BAND	1								
30	1310 6307 00	EXHAUST PIPE	1								
40	1310 6546 00	PIPE-FLEX	1								
50	1310 0724 32	CLAMP	2								
60	1310 0723 20	ISOLATOR DPF MOUNT	4								
70	1310 6308 00	BRACKET-DPF	1								
80	1310 6550 00	BRACKET DPF SUPPORT	1								
90	0147 1326 03	HEX HEAD SCREW	6								
100	0301 2335 00	FLAT WASHER	6								
110	0147 1401 03	HEX HEAD SCREW	4								
120	0301 2358 00	FLAT WASHER	4								
130	1310 0723 44	STUD	4								
140	0291 1185 01	LOCKNUT	4								
150	1310 0724 32	CLAMP	1								
160	0147 1249 03	HEX HEAD SCREW	2								
170	0301 2321 00	FLAT WASHER	2								
180	1615 8817 00	RAIN CAP EXHAUST	1								
190	1310 6309 00	EXHAUST PIPE-STACK	1								
200	1310 0723 06	EXHAUST CLAMP	1								
210	1310 6001 80	HEAT BLANKET	1								
220	1310 6001 81	HEAT BLANKET	1								
225	1310 6320 00	BRACKET EXHAUST SUPPORT	1								



FUEL SYSTEM - STANDARD

REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
10	1604 2742 00	FUEL COOLER	1								
20	1619 2766 00	SELF TAP SCREW	2								
30	0301 2335 00	FLAT WASHER	2								
40	0291 1110 00	LOCKNUT	2								
50	0075 4025 42	FUEL HOSE	AR								
60	0347 6104 00	HOSE CLAMP	4								
70	1310 6001 19	TUBE FUEL LINE PICKUP	1								
80	1310 6001 20	TUBE FUEL LINE RETURN	1								
90	0582 0000 58	ADAPTER	2								
100	0571 0020 43	HOSE NIPPLE	2								
110	1310 0332 70	SWITCH LEVEL SENSOR	1								
120	0147 1212 03	HEX HEAD SCREW	5								
130	1615 6947 01	FUEL CAP	1								
140	1604 6111 01	3 WAY VALVE	1								
150	1619 2766 00	SELF TAP SCREW	2								
160	1079 5840 12	COUPLING	4								
170	1604 0245 00	HOSE NIPPLE	4								
180	0653 1124 00	FLAT GASKET	4								
190	0347 6104 00	HOSE CLAMP	2								
200	1310 0360 49	COUPLER QUICK CONNECTION	1								
210	1310 0360 48	COUPLER QUICK CONNECTION	1								
220	1310 0720 18	ADAPTER	1								
230	1310 0720 19	ADAPTER	1								
240	1310 0360 51	PLUG	1								
250	1310 0360 50	PLUG	1								
260	1310 0367 07	NIPPLE QUICK DISCONNECT	1								
270	1310 0367 10	NIPPLE QUICK DISCONNECT	1								
390	1604 0248 00	GASKET	1								

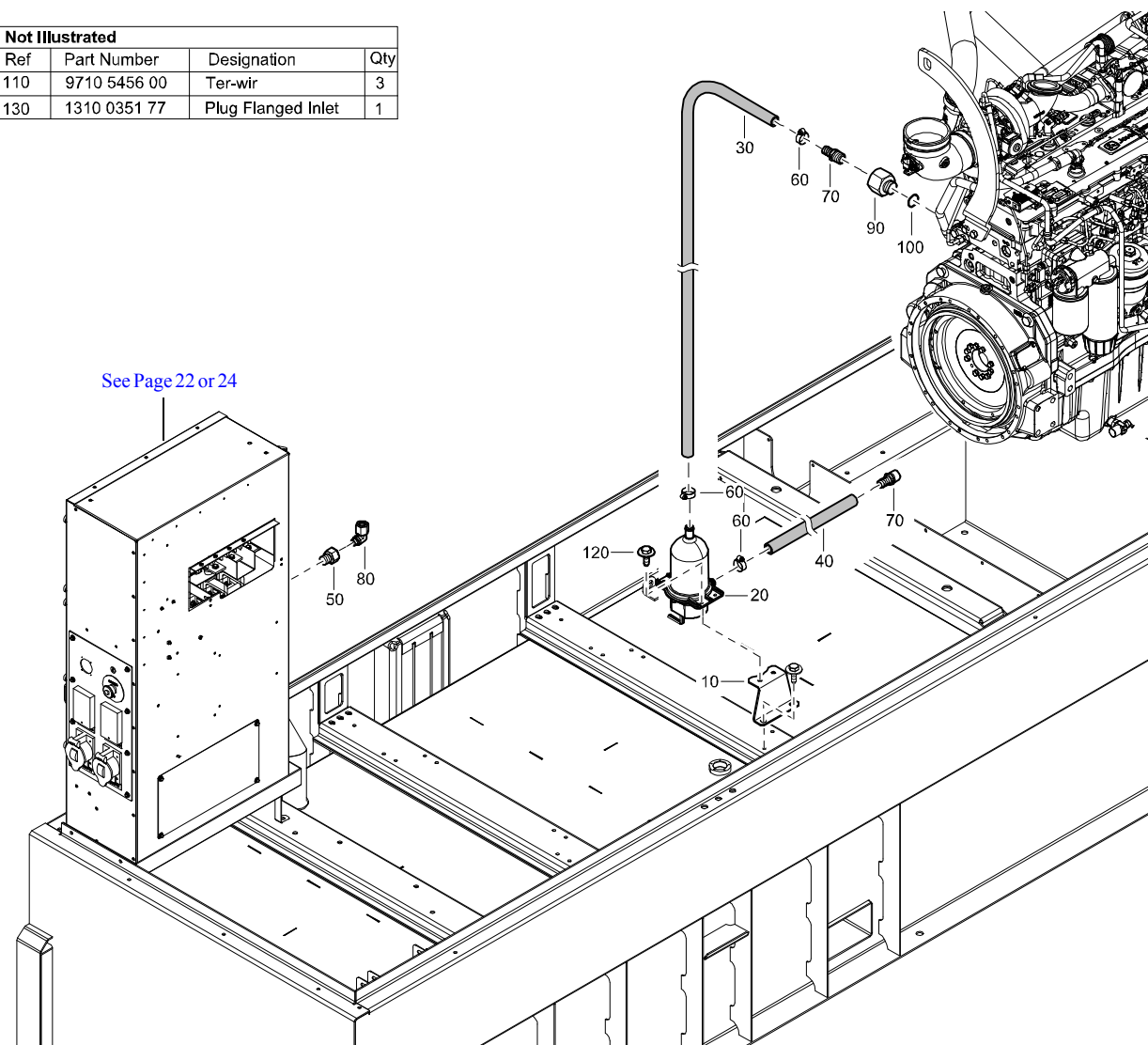
FRAME AND MOUNTS - STANDARD



REF	PART NUMBER	DESIGNATION	QTY
10	1310 6249 80	FRAME ASSY (For details see page 59)	1
20	1310 6266 80	FUELTANK ASSY (For details see page 60)	1
30	1310 6258 00	MOUNT-ALTERNATOR	1
40	0147 1401 03	HEX HEAD SCREW	6
50	0301 2358 00	FLAT WASHER	6
60	1619 3728 00	BUFFER ISOLATOR-RUBBER	2
70	0147 1401 03	HEX HEAD SCREW	4
80	0301 2358 00	FLAT WASHER	4
90	0147 1402 03	HEX HEAD SCREW	2
100	0301 2358 00	FLAT WASHER	2
110	1310 6265 00	SUPPORT ENGINE	2
120	0147 1401 03	HEX HEAD SCREW	2
130	0301 2358 00	FLAT WASHER	2
140	1619 5506 01	BUFFER-RUBBER	4
150	0147 1326 03	HEX HEAD SCREW	8
160	0301 2335 00	FLAT WASHER	8
170	0147 1371 00	HEX HEAD SCREW	2
180	0301 2344 00	FLAT WASHER	2
190	1310 6321 00	SUPPORT ENGINE	2
200	0147 1475 03	HEX HEAD SCREW	8
210	0301 2378 00	FLAT WASHER	8
220	1310 6083 00	MOUNT-ENGINE	2
230	0147 1475 03	HEX HEAD SCREW	8
240	0301 2378 00	FLAT WASHER	8
250	0147 1363 15	HEX HEAD SCREW	2
260	0301 2344 00	FLAT WASHER	2
270	1310 6254 00	MOUNT CUBICLE	1
280	1619 2766 00	SELF TAP SCREW	2

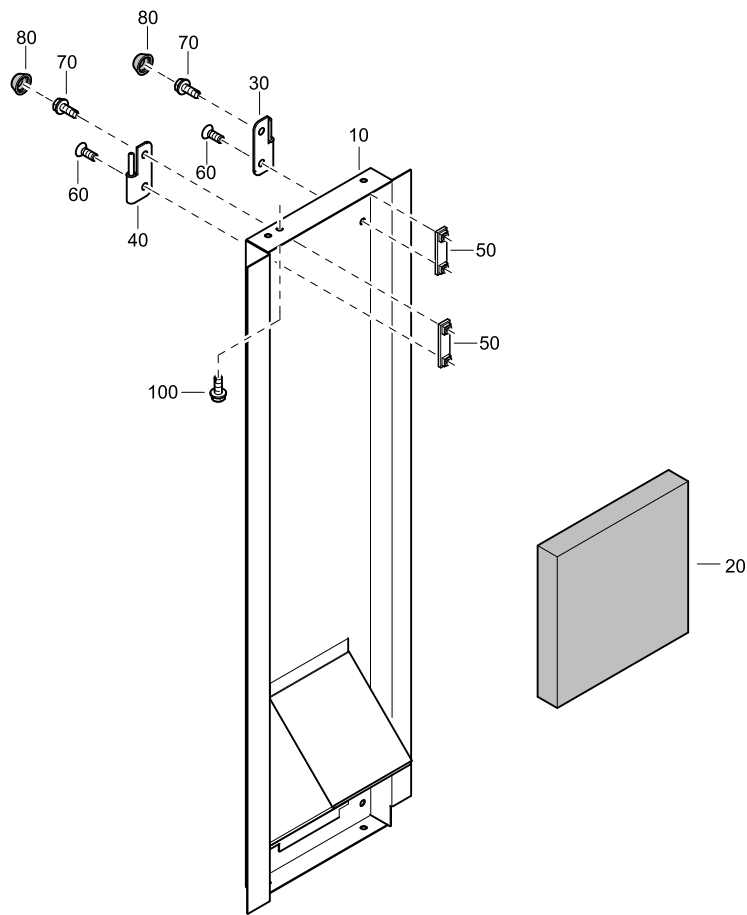
COOLANT HEATER - STANDARD

Not Illustrated			
Ref	Part Number	Designation	Qty
110	9710 5456 00	Ter-wir	3
130	1310 0351 77	Plug Flanged Inlet	1



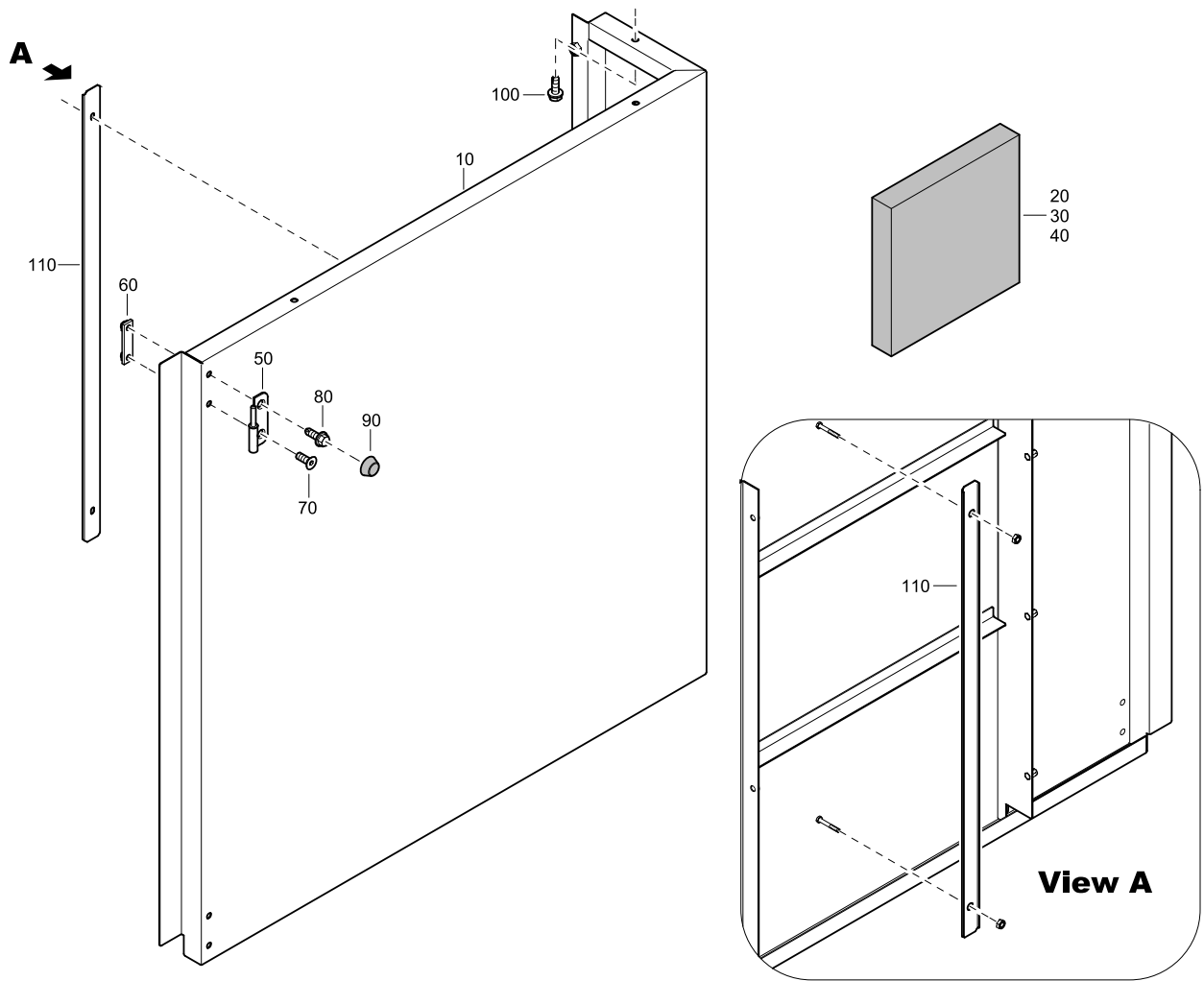
REF	PART NUMBER	DESIGNATION	QTY
10	1310 6279 00	BRACKET COOLANT HEATER	1
20	1310 0351 96	HEATER COOLANT CIRCULATOR	1
30	1310 2511 06	HOSE	8
40	1310 2511 06	HOSE	4
50	1310 0724 38	ADAPTER	1
60	1310 0352 02	HOSE CLAMP	4
70	1310 0351 95	HOSE NIPPLE	2
80	1310 0355 62	ELBOW-PIPE	2
90	1310 0354 87	ADAPTER	1
100	0663 3122 00	O-RING	1
110	9710 5456 00	TER-WIR	3
120	1615 5664 00	SCRAPER BOLT	2
130	1310 0351 77	PLUG FLANGED INLET	1

PANEL ASSEMBLY FUEL FILL - STANDARD



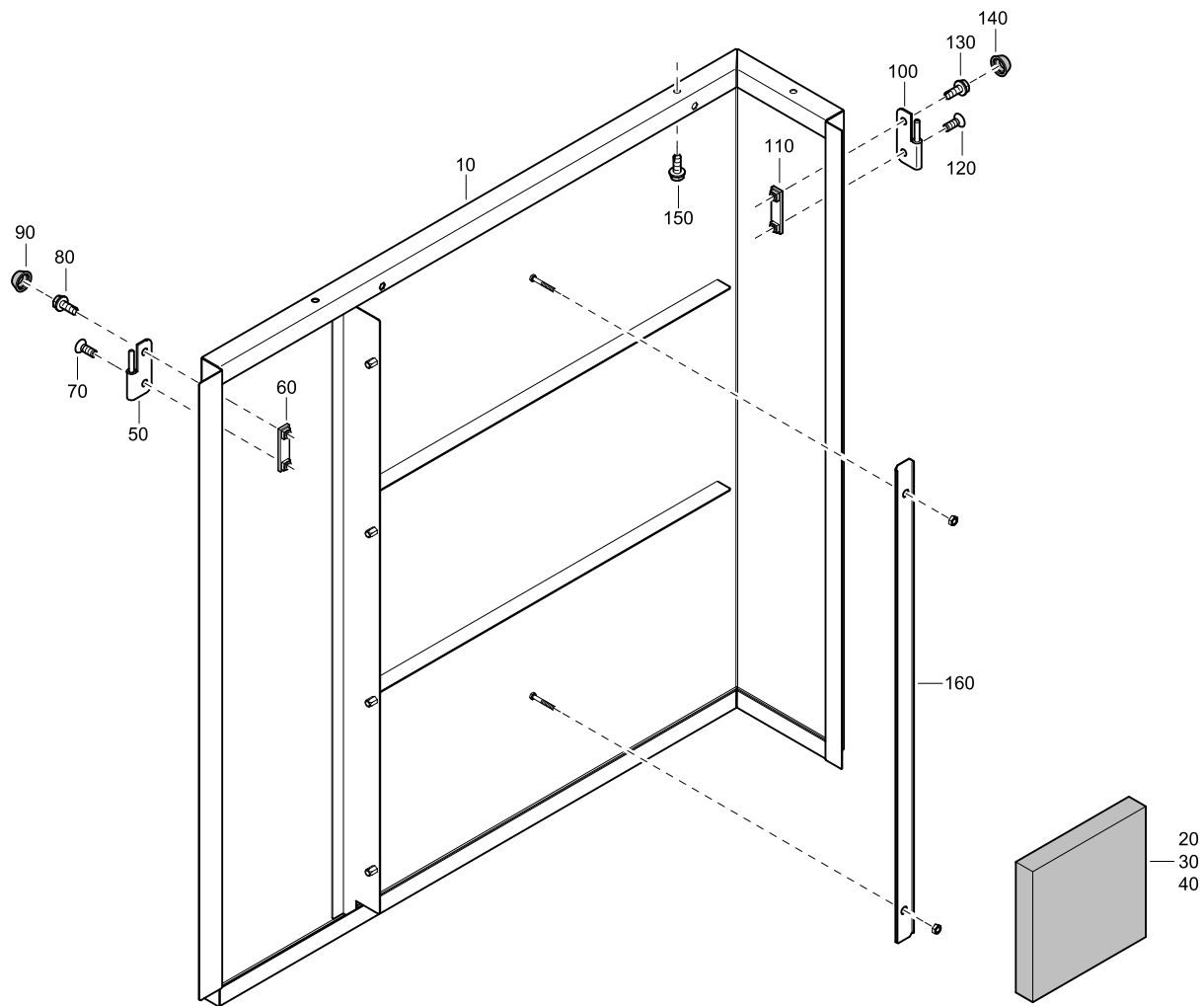
REF	PART NUMBER	DESIGNATION	QTY
-	1310 4904 80	PANEL ASSEMBLY FUEL FILL	(From page 32)
•10	1310 4904 00	PANEL FUEL FILL	1
•20	1310 4904 70	INSULATION	1
•30	1604 3430 00	HINGE W/PIN	2
•40	1604 3428 00	HINGE	2
•50	1615 5684 00	BRACKET HINGE RETAINER	4
•60	0216 1324 03	SOCK HEAD CAP SCREW	4
•70	1619 2766 00	SELF TAP SCREW	4
•80	1613 3672 00	BOLT PROTECT CAP	4
•100	1619 2766 00	SELF TAP SCREW	2

PANEL ASSEMBLY CORNER RIGHT - STANDARD



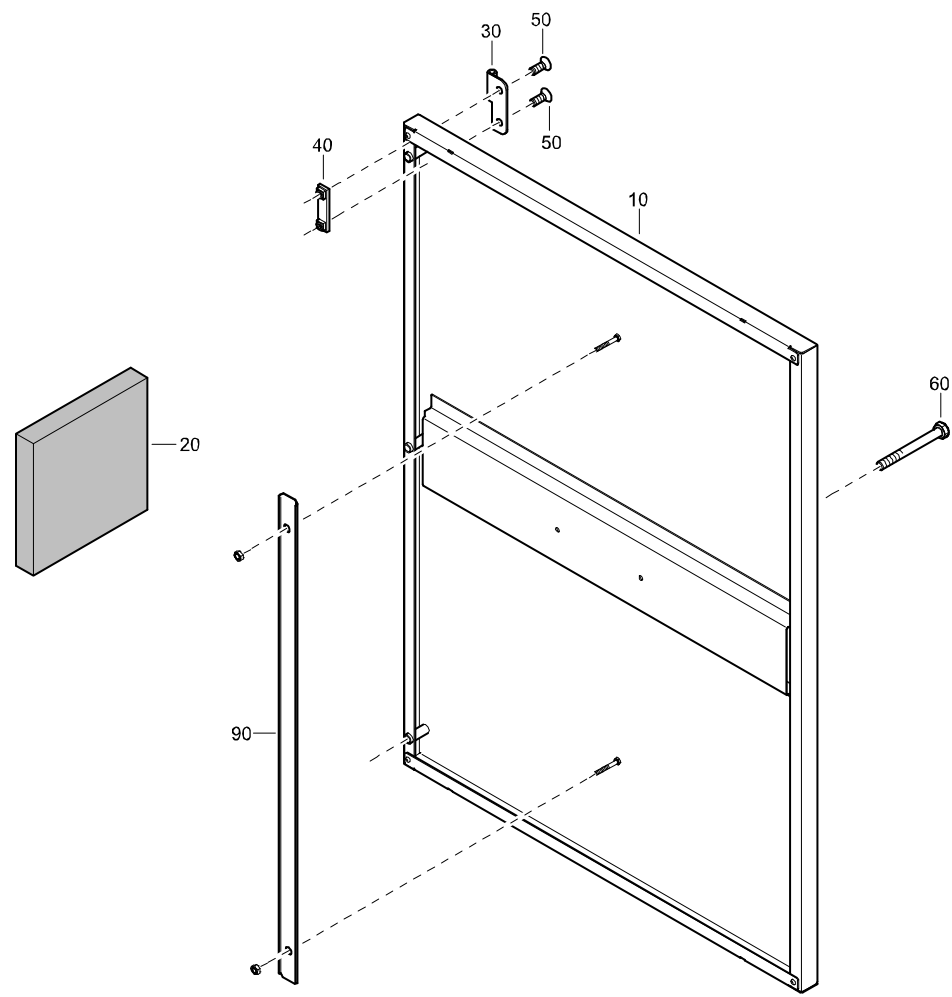
REF	PART NUMBER	DESIGNATION	QTY
-	1310 4905 80	PANEL ASSEMBLY CORNER RIGHT	(From page 32)
•10	1310 4905 00	PANEL CORNER	1
•20	1310 4905 70	INSULATION	3
•30	1310 4905 71	INSULATION	1
•40	1310 4905 72	INSULATION	1
•50	1604 3430 00	HINGE W/PIN	2
•60	1615 5684 00	BRACKET HINGE RETAINER	2
•70	0216 1324 03	SOCK HEAD CAP SCREW	2
•80	1619 2766 00	SELF TAP SCREW	2
•90	1613 3672 00	BOLT PROTECT CAP	1
•100	1619 2766 00	SELF TAP SCREW	3
•110	1310 4905 60	STRAP FOAM RETAINING	1

PANEL ASSEMBLY CORNER LEFT - STANDARD



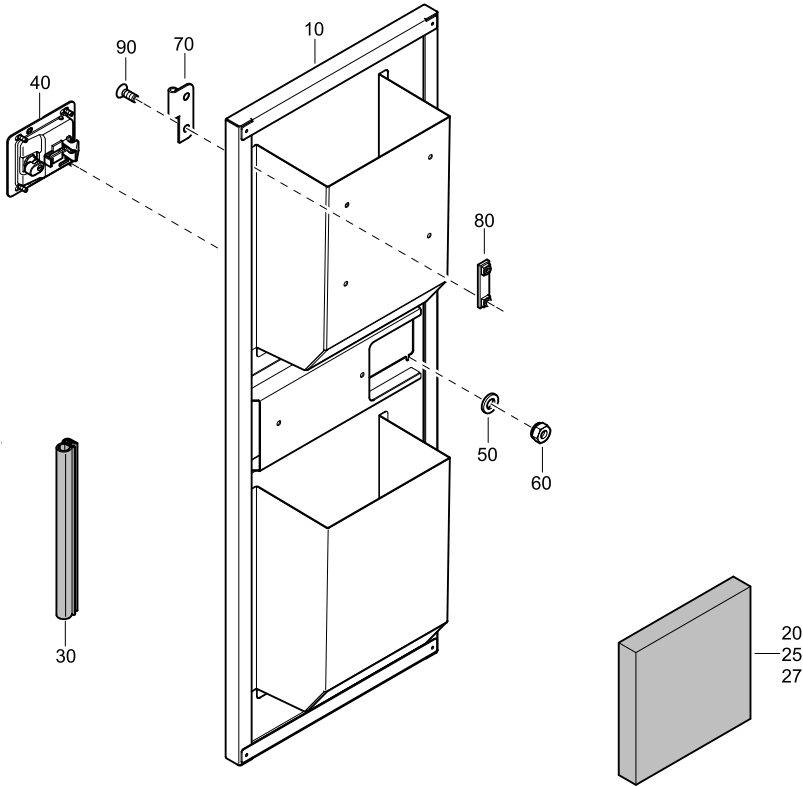
REF	PART NUMBER	DESIGNATION	QTY
-	1310 4906 80	PANEL ASSEMBLY CORNER LEFT	(From page 32)
•10	1310 4906 00	PANEL CORNER	1
•20	1310 4905 70	INSULATION	3
•30	1310 4905 71	INSULATION	1
•40	1310 4905 72	INSULATION	1
•50	1604 3428 00	HINGE	2
•60	1615 5684 00	BRACKET HINGE RETAINER	2
•70	0216 1324 03	SOCK HEAD CAP SCREW	2
•80	1619 2766 00	SELF TAP SCREW	2
•90	1613 3672 00	BOLT PROTECT CAP	2
•100	1604 3430 00	HINGE W/PIN	2
•110	1615 5684 00	BRACKET HINGE RETAINER	2
•120	0216 1324 03	SOCK HEAD CAP SCREW	2
•130	1619 2766 00	SELF TAP SCREW	2
•140	1613 3672 00	BOLT PROTECT CAP	2
•150	1619 2766 00	SELF TAP SCREW	3
•160	1310 4905 60	STRAP FOAM RETAINING	1

DOOR ASSEMBLY SERVICE FRONT ACCESS - STANDARD



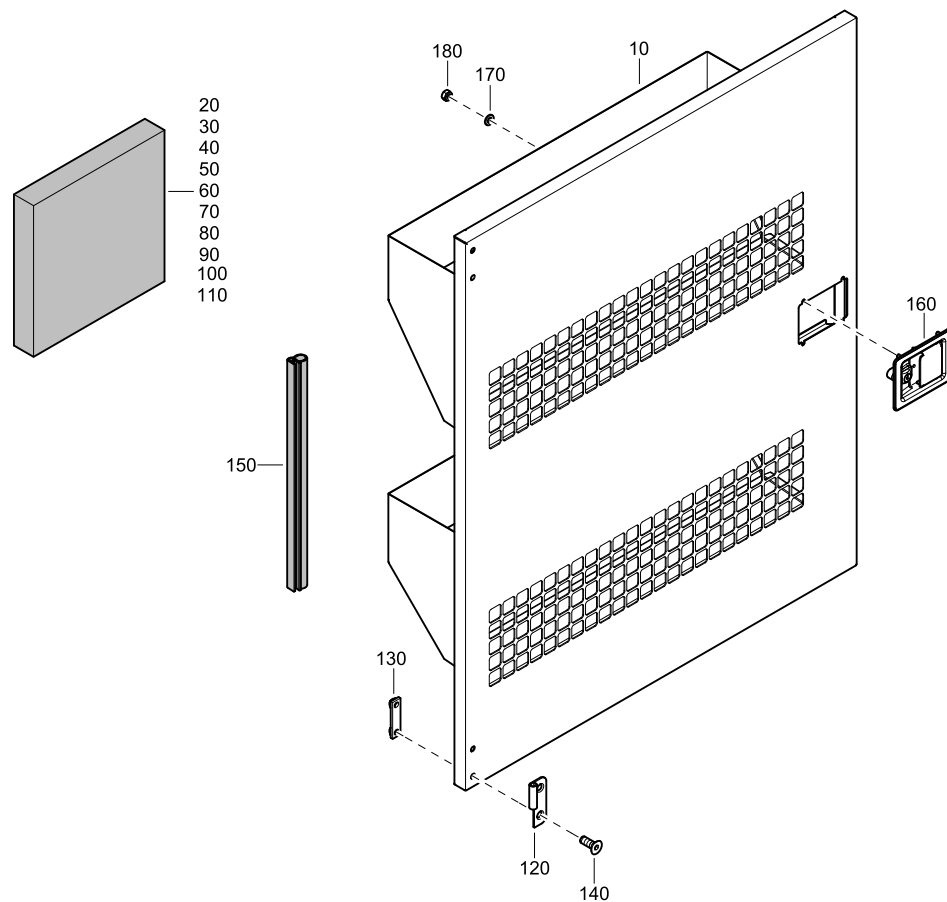
REF	PART NUMBER	DESIGNATION	QTY
-	1310 4907 80	DOOR ASSEMBLY SERVICE FRONT ACCESS (From page 32)	
•10	1310 4907 00	DOOR SERVICE	1
•20	1310 4907 70	INSULATION	2
•30	1604 3431 00	HINGE W/O PIN	2
•40	1615 5684 00	BRACKET HINGE RETAINER	2
•50	0216 1324 03	SOCK HEAD CAP SCREW	4
•60	1310 0305 74	HEX HEAD SCREW	3
•90	1310 4905 60	STRAP FOAM RETAINING	1

DOOR ASSEMBLY SMALL - STANDARD



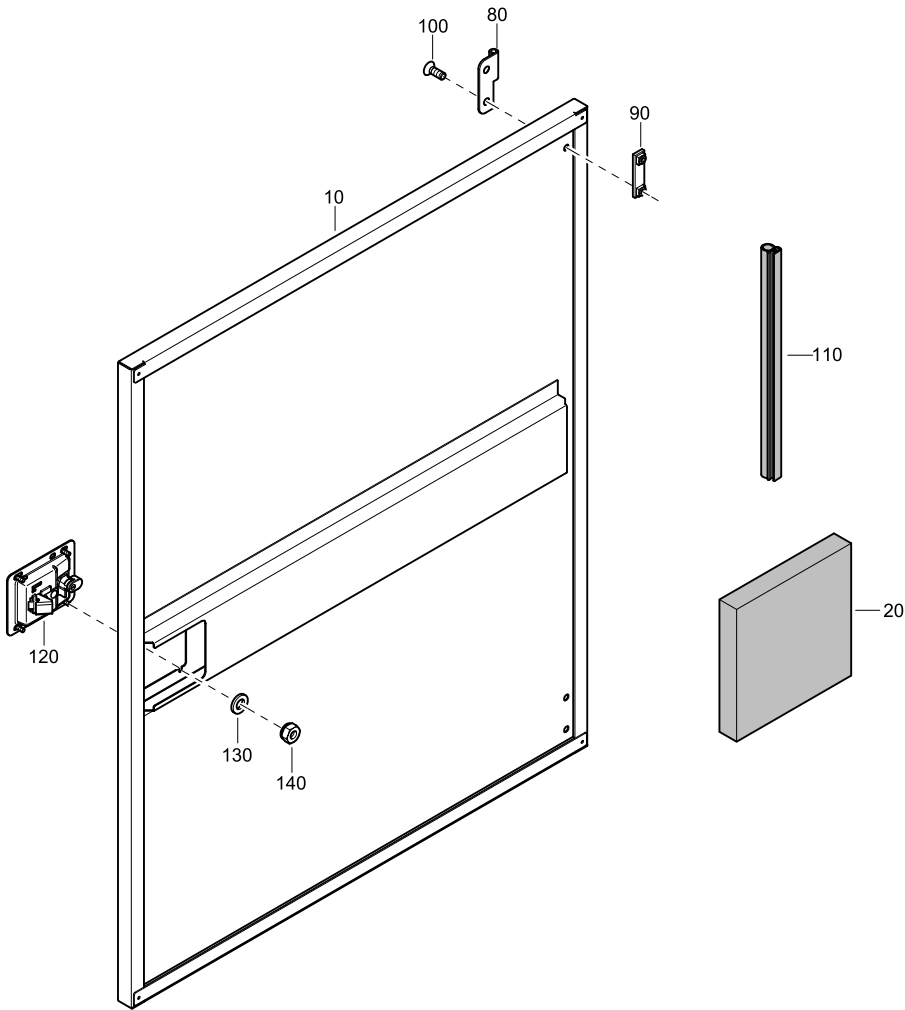
REF	PART NUMBER	DESIGNATION	QTY
-	1310 4909 80	DOOR ASSEMBLY SMALL (From page 32)	
•10	1310 4909 00	DOOR SMALL	1
•20	1310 4909 70	INSULATION	2
•25	1310 4909 71	INSULATION	2
•27	1310 4909 72	INSULATION	1
•30	1604 4317 00	SEAL DOOR	AR
•40	1615 6967 03	HANDLE	1
•50	0301 2321 00	FLAT WASHER	4
•60	0291 1108 00	LOCKNUT	4
•70	1604 3431 00	HINGE W/O PIN	2
•80	1615 5684 00	BRACKET HINGE RETAINER	2
•90	0216 1324 03	SOCK HEAD CAP SCREW	4

DOOR ASSEMBLY LARGE ALTERNATOR ACCESS - STANDARD



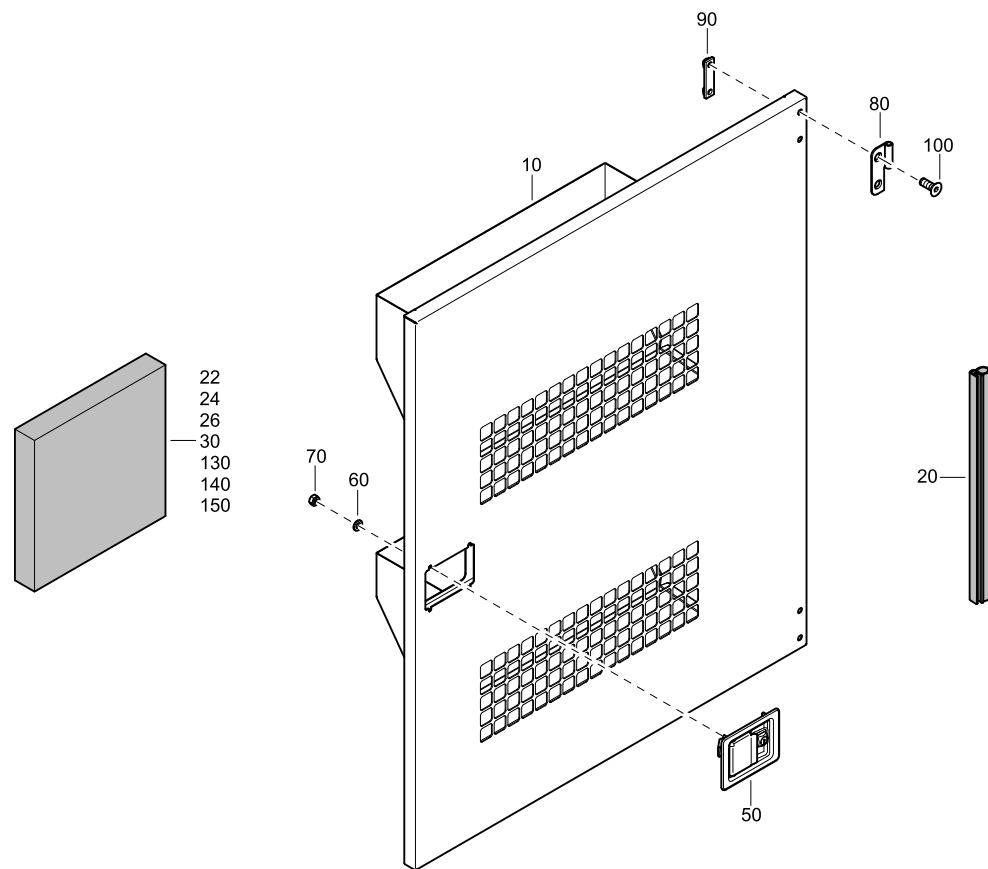
REF	PART NUMBER	DESIGNATION	QTY
-	1310 4910 80	DOOR ASSEMBLY LARGE ALTERNATOR ACCESS (From page 32)	
•10	1310 4910 00	DOOR LARGE	1
•20	1310 4910 65	INSULATION	2
•30	1310 4910 66	INSULATION	1
•40	1310 4910 67	INSULATION	1
•50	1310 4910 68	INSULATION	1
•60	1310 4910 69	INSULATION	2
•70	1310 4910 70	INSULATION	4
•80	1310 4910 71	INSULATION	2
•90	1310 4910 72	INSULATION	1
•100	1310 4910 73	INSULATION	2
•110	1310 4910 74	INSULATION	1
•120	1604 3429 00	HINGE	2
•130	1615 5684 00	BRACKET HINGE RETAINER	2
•140	0216 1324 03	SOCK HEAD CAP SCREW	4
•150	1604 4317 00	SEAL DOOR	AR
•160	1615 6967 03	HANDLE	1
•170	0301 2321 00	FLAT WASHER	4
•180	0291 1108 00	LOCKNUT	4

DOOR ASSEMBLY LARGE AIR INLET - STANDARD



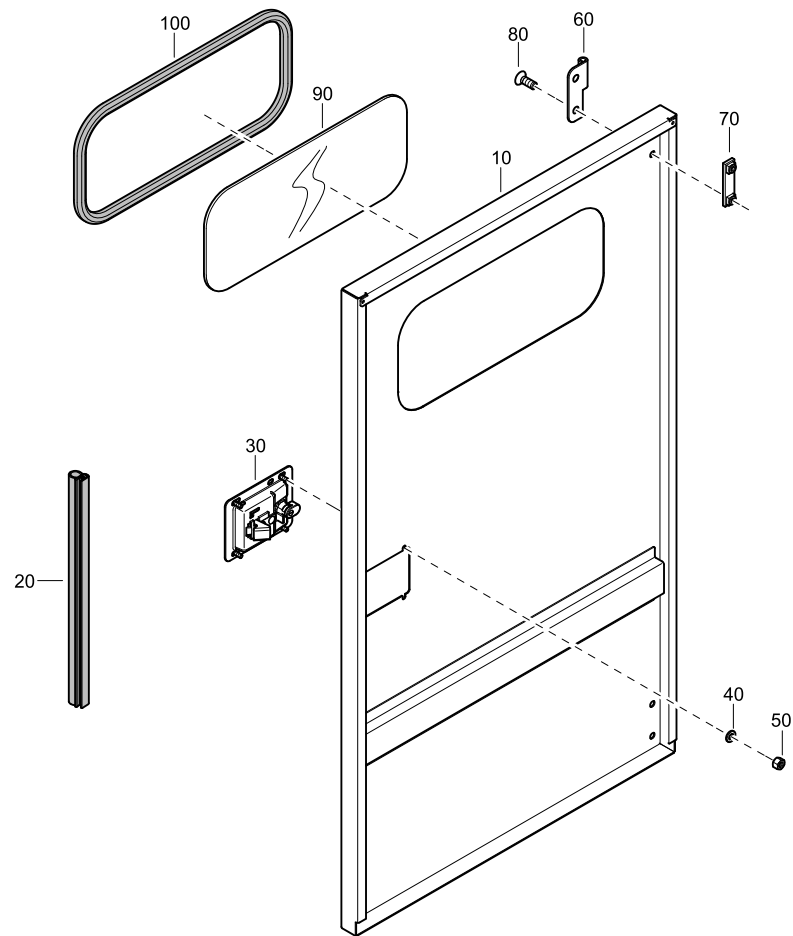
REF	PART NUMBER	DESIGNATION	QTY
-	1310 4911 80	DOOR ASSEMBLY LARGE AIR INLET (From page 32)	
•10	1310 4911 00	DOOR LARGE	1
•20	1310 4911 70	INSULATION	2
•80	1604 3429 00	HINGE	2
•90	1615 5684 00	BRACKET HINGE RETAINER	2
•100	0216 1324 03	SOCK HEAD CAP SCREW	4
•110	1604 4317 00	SEAL DOOR	AR
•120	1615 6967 03	HANDLE	1
•130	0301 2321 00	FLAT WASHER	4
•140	0291 1108 00	LOCKNUT	4

DOOR ASSEMBLY RIGHT FRONT - STANDARD



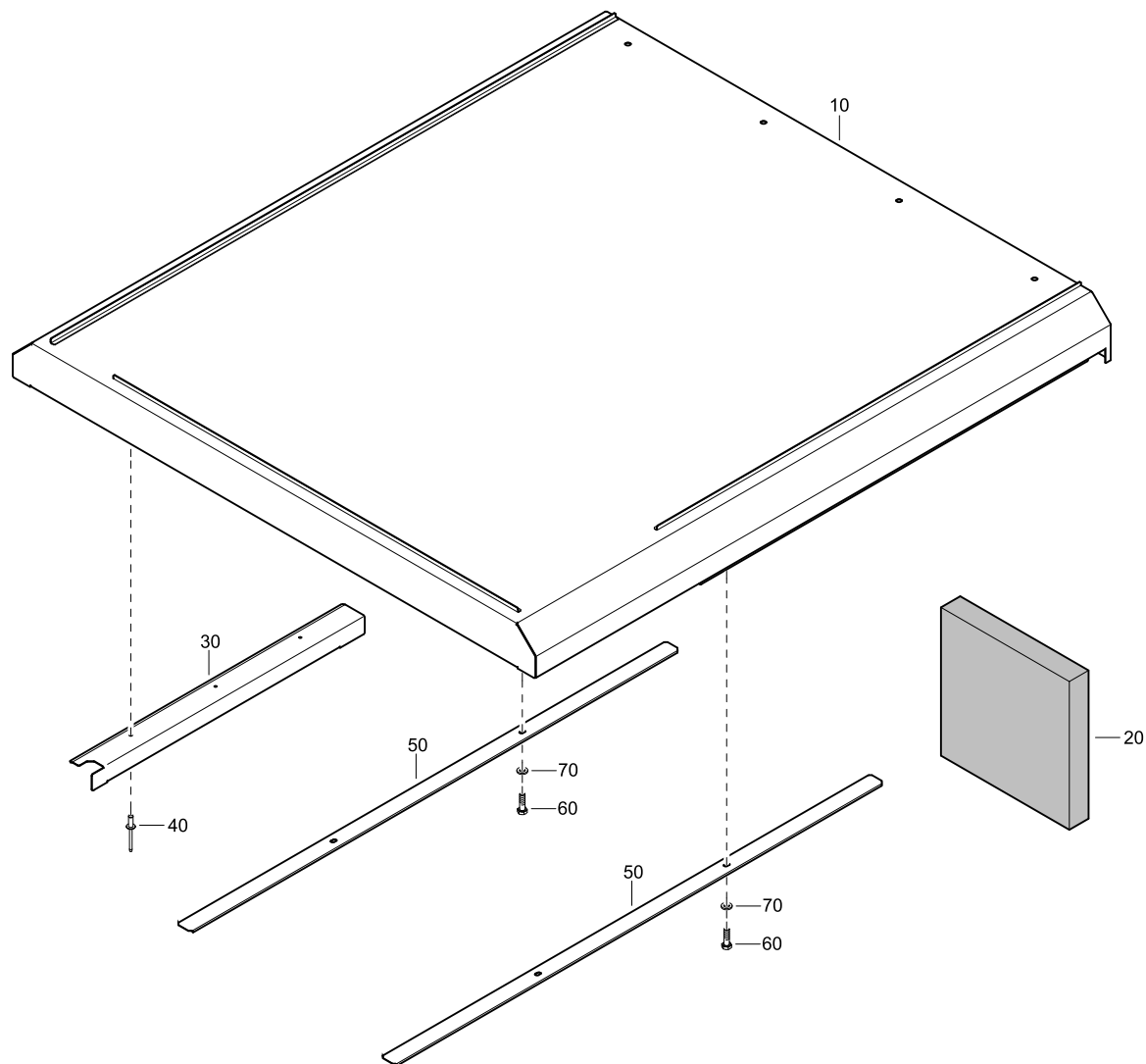
REF	PART NUMBER	DESIGNATION	QTY
-	1310 4912 80	DOOR ASSEMBLY LARGE RIGHT FRONT (From page 32)	
•10	1310 4912 00	DOOR LARGE	1
•20	1604 4317 00	SEAL DOOR	4.3
•22	1310 4912 72	INSULATION	1
•24	1310 4912 73	INSULATION	1
•26	1310 4912 74	INSULATION	1
•30	1310 4912 70	INSULATION	1
•50	1615 6967 03	HANDLE	1
•60	0301 2321 00	FLAT WASHER	4
•70	0291 1108 00	LOCKNUT	4
•80	1604 3431 00	HINGE W/O PIN	2
•90	1615 5684 00	BRACKET HINGE RETAINER	2
•100	0216 1324 03	SOCK HEAD CAP SCREW	4
•130	1310 4912 75	INSULATION FOAM	2
•140	1310 4912 76	INSULATION FOAM	1
•150	1310 4912 77	INSULATION FOAM	1

DOOR ASSEMBLY CUBICLE - STANDARD



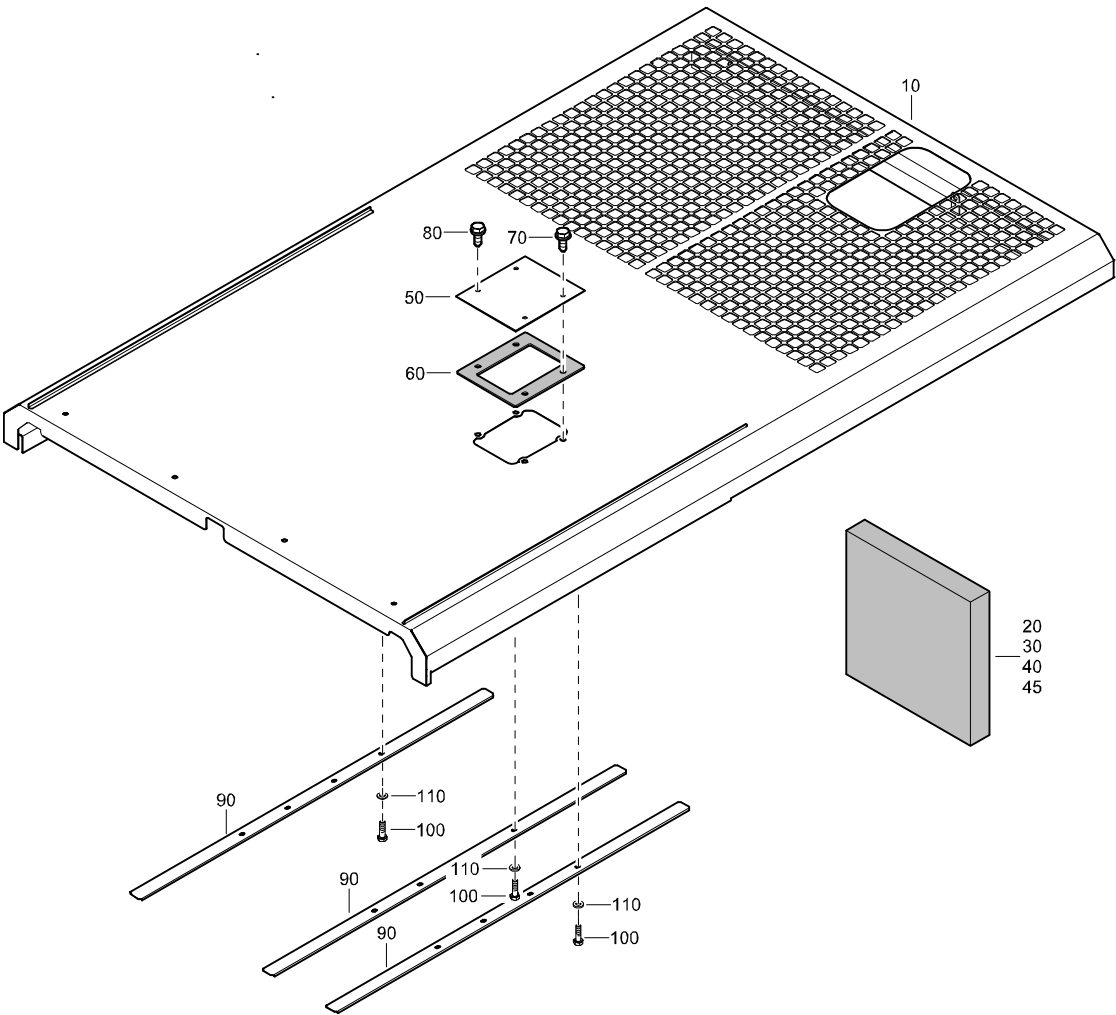
REF	PART NUMBER	DESIGNATION	QTY
-	1310 4913 80	DOOR ASSEMBLY CUBICLE (From page 32)	
•10	1310 4913 00	DOOR CUBICLE	1
•20	1604 4317 00	SEAL DOOR	3
•30	1615 6967 03	HANDLE	1
•40	0301 2321 00	FLAT WASHER	4
•50	0291 1108 00	LOCKNUT	4
•60	1604 3429 00	HINGE	2
•70	1615 5684 00	BRACKET HINGE RETAINER	2
•80	0216 1324 03	SOCK HEAD CAP SCREW	4
•90	1604 4922 00	WINDOW CUBICLE DOOR	1
•100	1604 4541 00	SEAL DOOR	1

ROOF ASSEMBLY REAR - STANDARD



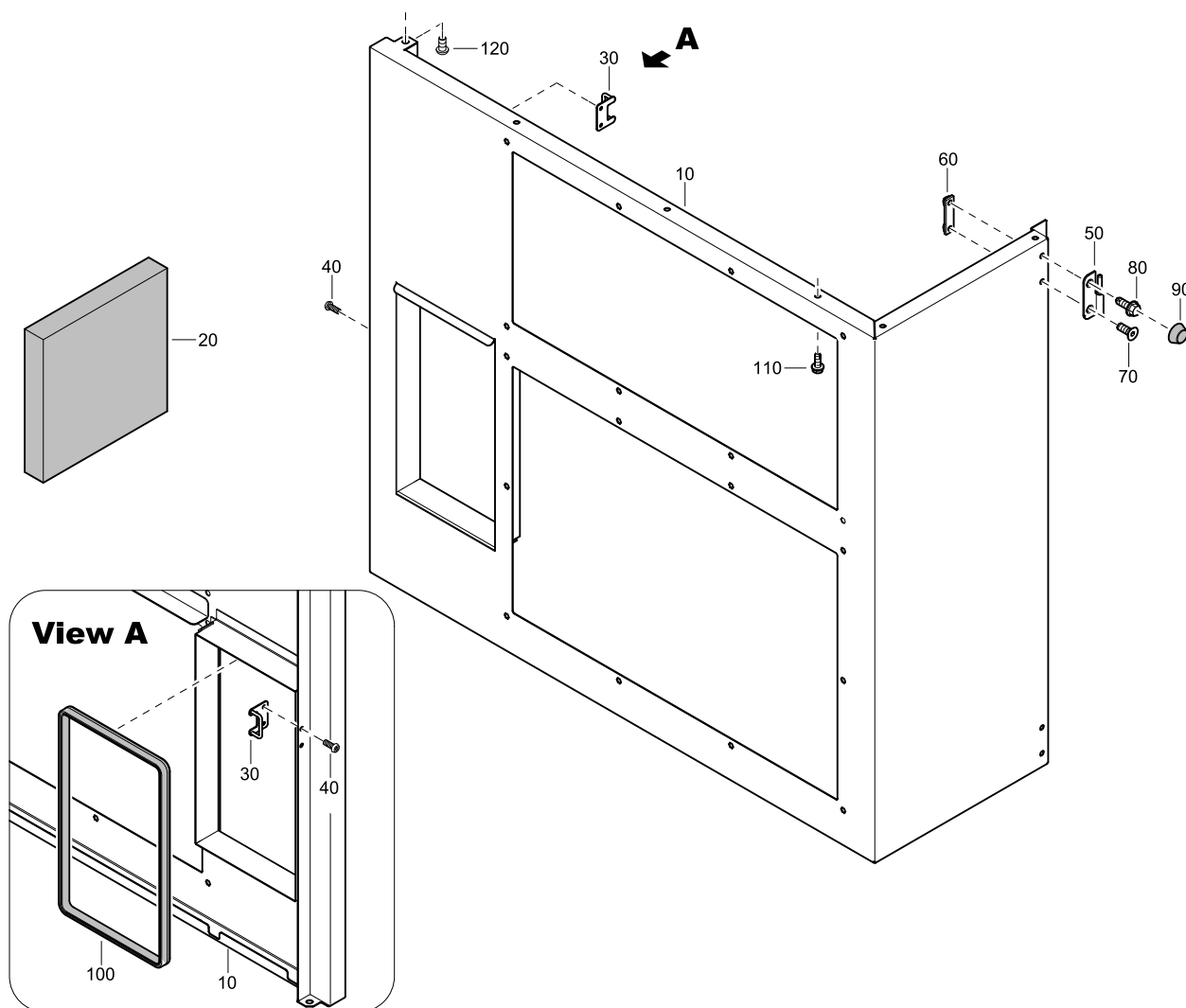
REF	PART NUMBER	DESIGNATION	QTY
-	1310 4914 80	ROOF ASSEMBLY REAR (From page 32)	
•10	1310 4914 00	ROOF REAR	1
•20	1310 4914 70	INSULATION	3
•30	1626 2990 01	SUPPORT	1
•40	0129 3115 00	POP RIVET	3
•50	1310 6001 28	STRAP FOAM SUPPORT	2
•60	0147 1247 03	HEX HEAD SCREW	4
•70	0301 2321 00	FLAT WASHER	4

ROOF ASSEMBLY FRONT - STANDARD



REF	PART NUMBER	DESIGNATION	QTY
-	1310 4915 80	ROOF ASSEMBLY FRONT	
		(From page 32)	
•10	1310 4915 00	ROOF FRONT	1
•20	1310 4915 70	INSULATION	2
•30	1310 4915 71	INSULATION	1
•40	1310 4915 72	INSULATION	2
•45	1310 4915 73	INSULATION	1
•50	1626 3397 00	COVER COOLER ACCESSORIES	1
•60	1626 3396 00	SEAL	1
•70	1619 2766 00	SELF TAP SCREW	2
•80	1619 2766 00	SELF TAP SCREW	10
•90	1310 6001 29	STRAP FOAM SUPPORT	3
•100	0147 1247 03	HEX HEAD SCREW	6
•110	0301 2321 00	FLAT WASHER	6

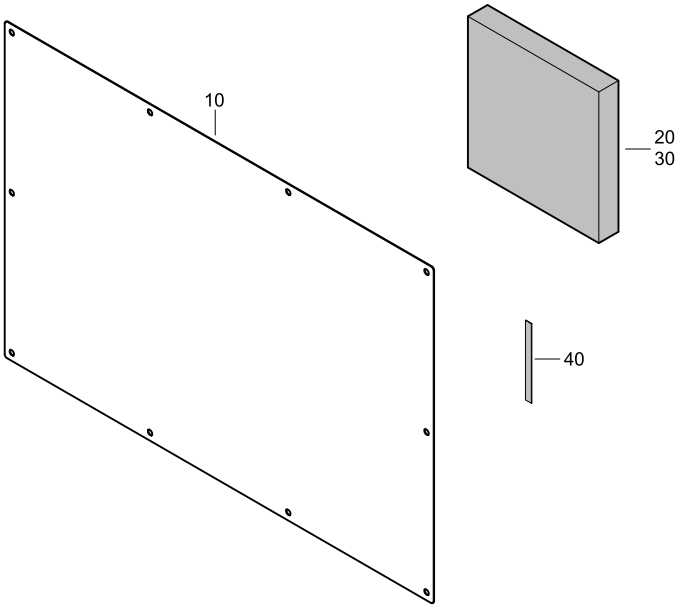
PANEL ASSEMBLY REAR CORNER - STANDARD



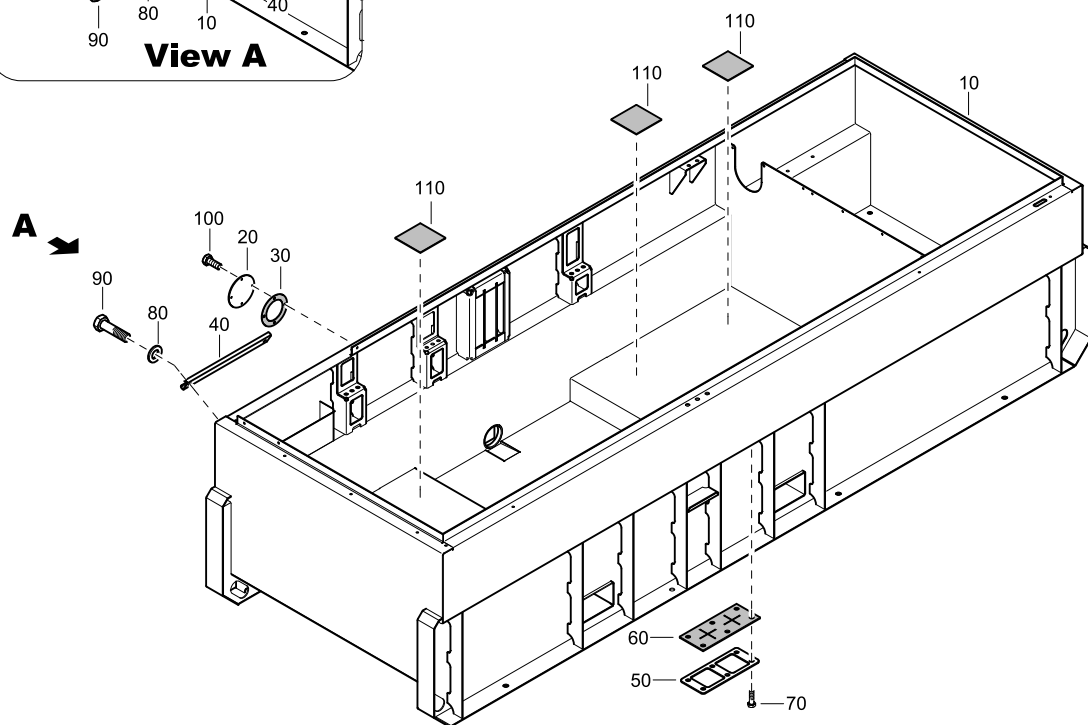
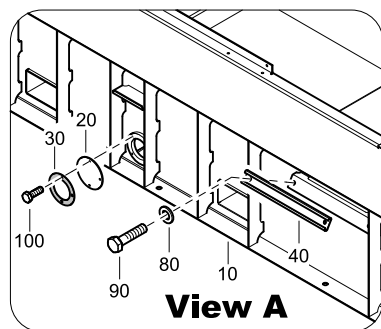
REF	PART NUMBER	DESIGNATION	QTY
-	1310 4916 80	PANEL ASSEMBLY REAR CORNER (From page 32)	
•10	1310 4916 00	PANEL CORNER	1
•20	1310 4916 70	INSULATION	1
•30	1626 2740 00	BRACKET	1
•40	3222 3112 92	BOLT	2
•50	1604 3428 00	HINGE	2
•60	1615 5684 00	BRACKET HINGE RATAINER	2
•70	0216 1324 03	SOCK HEAD CAP SCREW	2
•80	1619 2766 00	SELF TAP SCREW	2
•90	1613 3672 00	BOLT PROTECT CAP	2
•100	1202 6584 00	SEAL-EDGE	AR
•110	1619 2766 00	SELF TAP SCREW	5
•120	0215 0003 77	SCREW	2

PLATE ASSEMBLY REAR ACCESS - STANDARD

REF	PART NUMBER	DESIGNATION	QTY
-	1310 4917 80	PLATE ASSEMBLY REAR ACCESS (From page 32)	
•10	1310 4917 00	PLATE	1
•20	1310 4917 70	INSULATION	1
•30	1310 4917 71	INSULATION	1
•40	1615 7057 00	SEAL	AR



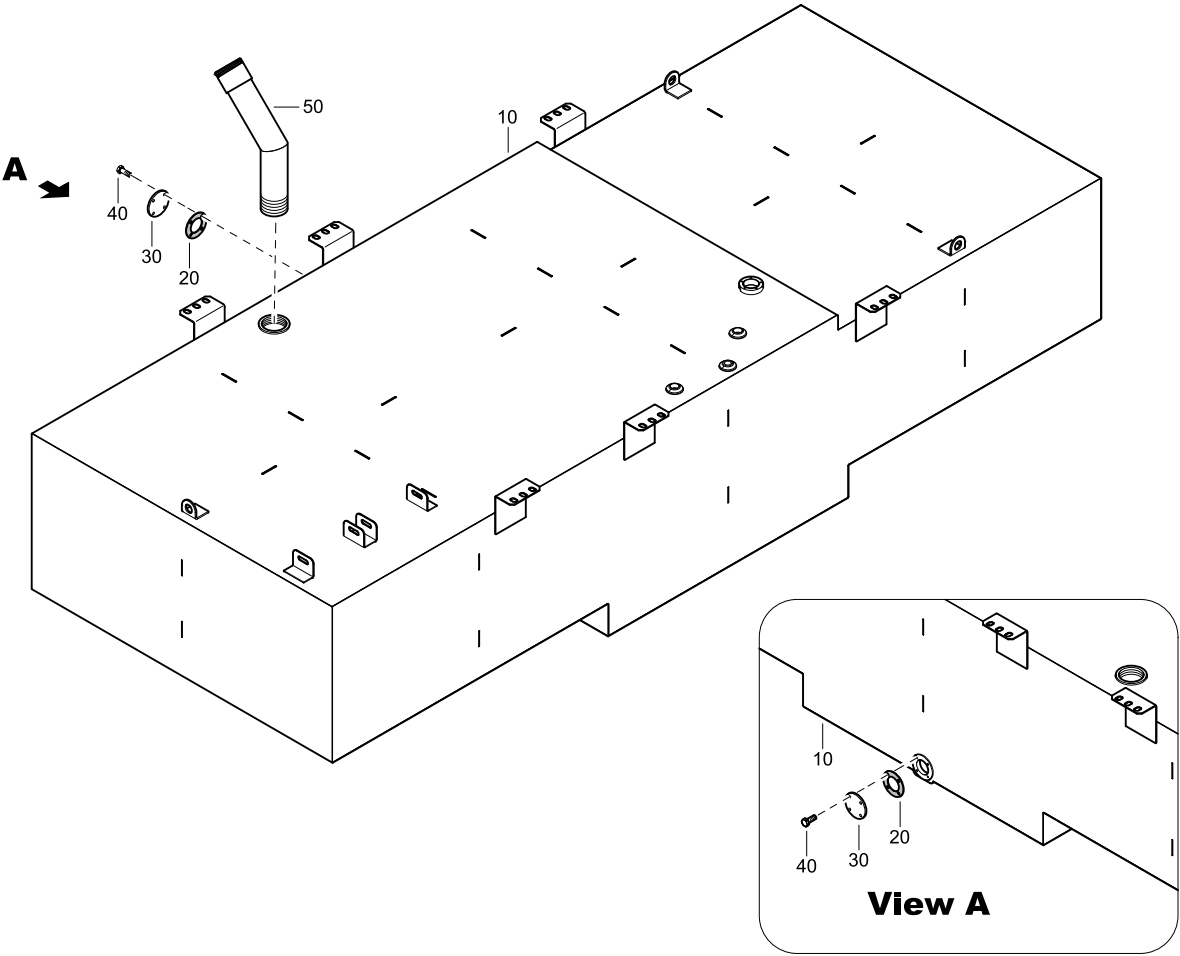
FRAME ASSEMBLY - STANDARD



REF	PART NUMBER	DESIGNATION	QTY
-	1310 6249 80	FRAME ASSEMBLY (From page 44)	
•10	1310 6249 00	FRAME 24 HOUR	1
•20	1310 6249 71	COVER FRAME DRAIN	1
•30	1310 6249 72	GASKET FRAME DRAIN	1
•40	1310 6249 73	CLAMP CUBICLE CABLES	1
•50	1310 4367 00	PLATE	1
•60	1310 4368 00	GASKET	1
•70	0147 1247 03	HEX HEAD SCREW	6
•80	0301 2358 00	FLAT WASHER	2
•90	0147 1404 03	HEX HEAD SCREW	2
•100	0147 1323 03	HEX HEAD SCREW	4
•110	1310 6249 70	PAD FUEL TANK	12

FUELTANK ASSEMBLY - STANDARD

REF	PART NUMBER	DESIGNATION	QTY
-	1310 6266 80	FUELTANK ASSEMBLY (From page 44)	
•10	1310 6266 00	FUEL TANK	1
•20	1310 6266 70	GASKET FUELTANK DRAIN	1
•30	1310 6266 71	COVER FUELTANK DRAIN	1
•40	0147 1246 03	HEX HEAD SCREW	4
•50	1310 6400 00	PIPE FUEL FILL	1



BAFFLE ASSEMBLY AIR INLET - STANDARD

REF	PART NUMBER	DESIGNATION	QTY
-	1310 4918 80	BAFFLE ASSEMBLY AIR INLET (From page 32)	
•10	1310 4918 00	BAFFLE AIR INLET	1
•20	1310 4918 70	INSULATION	1
•30	1615 7057 00	SEAL	2

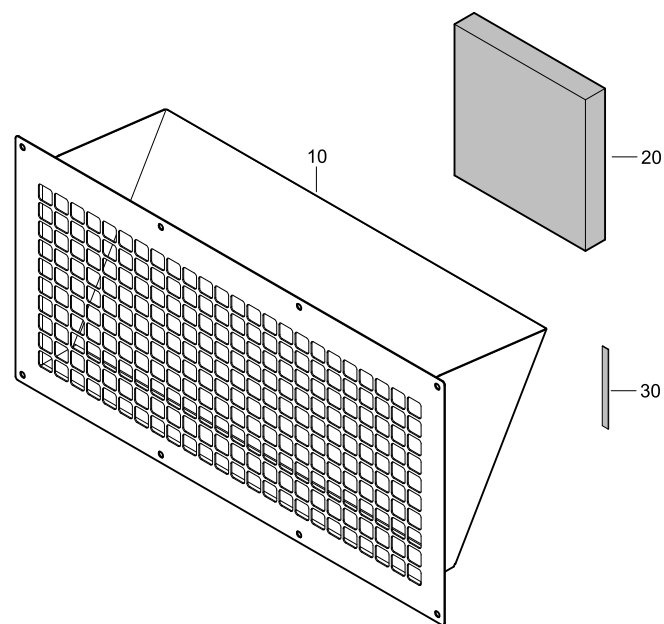


PLATE ASSEMBLY BEAM COVER - STANDARD

REF	PART NUMBER	DESIGNATION	QTY
-	1310 4922 80	PLATE ASSEMBLY BEAM COVER	(From page 32)
•10	1310 4922 00	PLATE INTERNAL LADDER COVER	
•20	1310 4922 70	INSULATION	2
•30	1310 4922 71	INSULATION	4

