

DRAFT

Parts List
for Portable Generators
English

QAS 150 Jd

Engine 6068HF285

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Engine 6068HF285

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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.

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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.

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".

BESTELLEN VAN ONDERDELEN

Vermeld steeds het onderdeelnummer, de benaming en het aantal van de gewenste stukken, evenals het type en het serienummer van de machine.

TOELICHTING BIJ DE KOLOMMEN

REF : REFERENTIECODE

Legt het verband tussen een onderdeel uit de lijst en een onderdeel op de tekening. "—" betekent dat het onderdeel niet is getekend.

PART NUMBER : ONDERDEELNUMMER

Indien niet opgegeven is het onderdeel niet als wisselstuk beschikbaar. Onderdelen aangeduid met een stip maken deel uit van het geheel dat boven de betreffende onderdelen staat.

DESIGNATION : BENAMING

Meestal de benaming van het onderdeel. In het geval van standaard onderdelen worden naast de benaming een aantal karakteristieken opgegeven.

QTY : AANTAL

Geeft de hoeveelheid van het betreffende onderdeel weer. De aanduiding "AR" betekent "As Required" (zoals vereist).

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.

BESTELLUNG VON ERSATZTEILEN

Stets die Teilenummer, die Bezeichnung, und die Anzahl der gewünschten Teile sowie den Typ und die Seriennummer der Maschine angeben.

INFORMATION ZU DEN SPALTEN

REF : REFERENZCODE

Stellt die Verbindung zwischen einem Teil in der Liste und einem Teil auf der Zeichnung her. "—" bedeutet, daß das Teil nicht in der Zeichnung dargestellt ist.

PART NUMBER : TEILENUMMER

Wenn keine Teilenummer angegeben ist, ist das Teil nicht als Ersatzteil erhältlich.

Mit einem Punkt markierte Teile gehören zu der Einheit, die über den jeweiligen Teilen aufgeführt ist.

DESIGNATION : BEZEICHNUNG

Meistens die Bezeichnung des Teils. Bei Standardteilen werden neben der Bezeichnung einige technische Daten angegeben.

QTY : ANZAHL

Gibt die Anzahl des betreffenden Teils an. Die Angabe "AR" steht für "As Required" (wie erforderlich).

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).

BESTÄLLNING AV RESERVDELAR

Ange alltid reservdelsnummer, benämning och kvantitet för varje önskad detalj samt maskinens typ och tillverkningsnummer.

TÖRKLARING AV SPALTER

REF : REFERENSNUMMER

Identifierar motsvarande detaljer i listan och illustrationen. "—" betyder att detaljen inte visas i illustrationen.

PART NUMBER : RESERVDELNUMMER

Om inget reservdelsnummer anges, kan detaljen inte erhållas som reservdel. Detaljer som anges med en punkt ingår i den monteringsatts som listas ovanför dessa.

DESIGNATION : BENÄMNING

Detta är vanligen namnet på detaljen. För standarddetaljer anges förutom namnet ett antal specifikationer.

QTY : KVANTITET

Anger den ifrågakvarande detaljens kvantitet. "AR" (As Required) betyder enligt behov.

ORDERING SPARE PARTS

ORDINAZIONE DI PARTI DI RICAMBIO

Menzionare sempre il numero della parte, la denominazione e il numero de pezzi desiderati, nonché il tipo e il numero di serie della macchina.

SPIEGAZIONE DELLE COLONNE

REF : CODICE DI RIFERIMENTO

Stabilisce il nesso tra un pezzo nell'elenco e un pezzo nell'illustrazione. "-" significa che il pezzo non è presente nell'illustrazione.

PART NUMBER : NUMERO DELLA PARTE

Nel caso non sia fornito il numero di parte, il pezzo non può essere ordinato come parte di ricambio. I componenti indicati con un puntino fanno parte del gruppo elencato immediatamente sopra di essi.

DESIGNATION : DENOMINAZIONE

Generalmente si tratta della denominazione della parte. Per i pezzi standard oltre alla denominazione sono fornite alcune caratteristiche.

QTY : QUANTITA'

Indica la quantità dei pezzi in questione. "AR" significa "As Required" (Come richiesto).

BESTÄLLNING AV RESERVDLAR

Ange alltid reservdelnummer, benämning och kvantitet för varje önskad detalj samt maskinens typ och tillverkningsnummer.

TÖRKLARING AV SPALTER

REF : REFERENSNUMMER

Identificerar motsvarande detaljer i listan och illustrationen. "-" betyder att detaljen inte visas i illustrationen.

PART NUMBER : RESERVDLSNUMMER

Om inget reservdelnummer anges, kan detaljen inte erhållas som reservdel. Detaljer som anges med en punkt ingår i den monteringsatts som listas ovanför dessa.

DESIGNATION : BENÄMNING

Detta är vanligen namnet på detaljen. För standarddetaljer anges förutom namnet ett antal specifikationer.

QTY : KVANTITET

Anger den ifrågavarande detaljens kvantitet. "AR" (As Required) betyder enligt behov.

BESTILLING AV RESERVEDELER

Oppgi alltid delenummer, betegnelse og antall på de delene du trenger, samt maskintype og serienummer.

FORKLARING TIL SPALTENE

REF: REFERANSEKODE

Viser hvor en del i listen er vist på illustrasjonen. "-" betyr at delen ikke er vist på illustrasjonen.

DELENUMMER

Hvis delenummer ikke er oppgitt, kan delen ikke bestilles som reservedel. Deler merket med en prikk er del av enheten som er oppgitt like ovenfor de aktuelle delene.

BETEGNELSE

Dette er vanligvis delens navn. Ved standarddeler blir enkelte karakteristika oppgitt i tillegg til navnet.

QTY: ANTALL

Oppgir antallet av den aktuelle delen. "EB" betyr "Enter behov".

ΠΑΡΑΓΓΕΛΙΑ ΑΝΤΑΛΛΑΚΤΙΚΩΝ

Πάντοτε σημειώνετε τον κωδικό, τον προσδιορισμό και την ποσότητα των απαιτούμενων ανταλλακτικών, καθώς επίσης τον τύπο και τον αύξοντα κωδικό αριθμό παραγωγής του μηχανήματος.

ΕΞΗΓΗΣΗ ΤΩΝ ΣΤΗΛΩΝ

REF : ΚΩΔΙΚΟΣ ΑΝΑΦΟΡΑΣ

Παρουσιάζει τη σχέση μεταξύ ενός εξαρτήματος στη λίστα και ενός εξαρτήματος στη φωτογραφία. Το "-" σημαίνει ότι το εξάρτημα δεν εμφανίζεται στη φωτογραφία.

PART NUMBER : ΚΩΔΙΚΟΣ ΑΡΙΘΜΟΣ

Αν δεν δίνεται κάποιος κωδικός αριθμός, τότε το εξάρτημα δεν μπορεί να ληφθεί ως ανταλλακτικό.

Τα εξαρτήματα που έχουν μαρκιαρισθεί με μία τελεία είναι τμήματα του συγκροτήματος που παρουσιάζεται ακριβώς πάνω από αυτά.

DESIGNATION : ΠΡΟΣΔΙΟΡΙΣΜΟΣ

Συνήθως αυτό είναι το όνομα του εξαρτήματος. Για τα βασικά εξαρτήματα, επιπροσθέτα στην ονομασία, δίνεται και ένας αριθμός χαρακτηριστικών.

QTY : ΠΟΣΟΤΗΤΑ

Δηλώνει την ποσότητα του υπόψη εξαρτήματος. "AR" σημαίνει "Ως απαιτείται". Για τα βασικά εξαρτήματα, η ποσότητα δίνεται στη φωτογραφία παρά στη λίστα.

ENCOMENDA DE PEÇAS

Refira sempre o número da peça, a designação e a quantidade das peças que pretende encomendar, assim como o tipo e o número de série do aparelho.

EXPLICAÇÃO DAS COLUNAS

REF : CÓDIGO DE REFERÊNCIA

Estabeleça a ligação entre a peça na lista e a peça no desenho. "-" significa que a peça não vem no desenho.

PART NUMBER : NÚMERO DA PEÇA

Se não vier referido o número da peça, a peça não pode ser adquirida como peça sobressalente.

As peças marcadas com pontos são peças de um conjunto listado acima dessa peça.

DESIGNATION : DESIGNAÇÃO

Geralmente é o nome da peça. Para peças normalizadas, além do nome da peça, vem também referido um número.

QTY : QUANTIDADE

Indica a quantidade da peça em questão. "AR" (As Required) quer dizer "Como solicitado".

VARAOSIEN TILAAMINEN

Tilauksessa tulee aina mainita osanumero, nimike ja määrä sekä kompressorin tyyppi ja sarjanumero.

SARAKKEIDEN SELITYKSET

REF: VIITE: VIITEKODI

Viitekoodi yhdistää luettelossa mainitun osan kuvassa olevaan. "-" tarkoittaa, että osaa ei ole merkitty kuvaan.

PART NUMBER: OSANUMERO

Ellei osanumeroa ole mainittu, osaa ei ole saatavana varaosana. Pisteellä merkityt osat kuuluvat niiden edellä mainittuun asennelmaan.

DESIGNATION: NIMIKE

Nimikkeenä käytetään tavallisesti osan nimeä. Vakio-osien ollessa kyseessä mainitaan nimen lisäksi osan joitakin ominaisuuksia.

QTY: MÄÄRÄ

Tarkoittaa kyseisten osien lukumäärää. "AR" tarkoittaa "tarpeen mukaan".

ORDERING SPARE PARTS

ZAMAWIANIE CZĘŚCI ZAMIENNYCH

Należy zawsze podawać numery, nazwy i ilości potrzebnych części, a także typ i numer seryjny maszyny.

WYJAŚNIENIE PRZEZNACZENIA KOLUMN

REF: KOD REFERENCYJNY

Kojarzy część na liście z częścią na ilustracji.
Symbol “-” oznacza, że część nie jest przedstawiona na ilustracji.

PART NUMBER (NUMER CZĘŚCI)

Brak numeru oznacza, że dana część nie jest dostępna jako część zamienna. Części oznaczone kropką należą do zespołu wymienionego bezpośrednio nad nimi.

DESIGNATION (NAZWA)

Zwykle jest to nazwa części. W przypadku części standardowych oprócz nazwy podano szereg właściwości.

QTY (IL.): ILOŚĆ

Ilość części danego rodzaju. “AR” (“OP”) oznacza “odpowiednio do potrzeb”.

Заказ запасных частей

Необходимо всегда указывать номер детали, наименование и количество заказываемых запчастей, а также тип и серийный номер устройства.

Расшифровка столбцов

ИЛЛ. : код сноски

Показывает ссылку детали в списке на ее соответствующую иллюстрацию.

“-” означает, что к данной детали нет иллюстраций.

НОМЕР ДЕТАЛИ

Отсутствие номера детали означает, что данная деталь как запчасть не поставляется.

Детали, помеченные точкой, являются частями сборного механизма, который указан над этими деталями.

НАИМЕНОВАНИЕ

Обычно, название детали. К стандартным деталям, кроме названия, могут быть даны некоторые их характеристики.

КОЛ-ВО: Количество

Показывает количество деталей. «По тр.» означает «по требованию».

OBJEDNÁVÁNÍ NÁHRADNÍCH DÍLŮ

V objednávce vždy uveďte číslo dílu, jeho označení a požadované množství. Rovněž tak udejte typ a výrobní číslo zařízení.

VYSVĚTLIVKY K JEDNOTLIVÝM SLOUPCŮM

REF : REFERENČNÍ KÓD

Udává spojitost mezi dílem v seznamu a dílem na obrázku.
“-” znamená, že díl není na obrázku uveden.

ČÍSLO DÍLU

Pokud není číslo dílu uvedeno, nelze tuto součást objednat jako náhradní díl.
Díly označené tečkami jsou součástí konstrukčního celku, který je uveden přímo nad nimi.

OZNAČENÍ

Ve sloupci označení bývá obvykle uveden název dílu. U standardních součástí je vedle názvu uváděna též řada dalších charakteristik.

POĚT : MNOŽSTVÍ

Označuje množství uvedených dílů. Zkratka “PP” znamená “Podle požadavku”.

PÓTALKATRÉSZ-RENDELÉS

Mindig jelezze a szükséges alkatrész számát, megnevezését és mennyiségét, valamint a gép típusát és sorozatszámát.

AZ OSZLOPOK MAGYARÁZATA

REF: REFERENCIAKÓD

Ez teremti kapcsolatot a listán szereplő alkatrész és az ábrán látható alkatrész között.

“-”: azt jelenti, hogy az adott alkatrész nem szerepel az ábrán.

ALKATRÉSZ-SZÁM

Ha nincs megadva alkatrész-szám, akkor az adott alkatrész nem rendelhető meg pótalkatrészként.

A ponttal jelölt alkatrészek a közvetlenül fölöttük felsorolt szerelvény részét képezik.

MEGNEVEZÉS

Rendszerint ez az alkatrész neve. Az alapfelszereltséghez tartozó alkatrészek esetében a név mellett néhány jellemző adat is szerepel.

QTY: MENNYISÉG

Az adott alkatrész mennyiségét jelzi. “SZ” jelentése “Szükség szerint”

订购备件

请务必提供所需部件的部件号、名称和数量，以及设备型号和序列号。

表格各列说明

REF: 参考代码

确立列表内部件与插图内部件间的联系。
“-”表示插图内未显示此部件。

部件号

如果未给出部件号，则表明无法通过备件方式购买此部件。
标有圆点的部件是其上一行所列配件的一部分。

名称

通常为部件的名称。对于标准件，除了名称外，还会列出它的一些特性。

QTY: 数量

表明可供部件的数量。“AR”代表“根据需要”

OBJEDNÁVANIE NÁHRADNÝCH SÚČASTOK

Uvádajte vždy číslo súčiastky, označenie a množstvo požadovaných súčiastok, ako aj typ a výrobné číslo stroja.

VYSVETLENIE STĺPCOV

REF : REFERENČNÝ KÓD

Stanovuje spojitost medzi súčiastkou v zozname a súčiastkou na obrázku.
“-” znamená, že súčiastka nie je zobrazená na obrázku.

ČÍSLO SÚČIASTKY

Ak nie je uvedené žiadne číslo súčiastky, táto súčiastka nie je k dispozícii ako náhradná.

Súčiastky označené bodkou sú časťou zostavy uvedenej hneď nad nimi.

OZNAČENIE

Obvyčajne je to názov súčiastky. U normalizovaných súčiastok sa okrem názvu uvádza aj niekoľko charakteristík

QTY : MNOŽSTVO

Označuje množstvo danej súčiastky. “AR” je skratka pre “Podľa potreby”.

ORDERING SPARE PARTS

NAROČEVANJE NADOMESTNIH DELOV

Zmeraj navedite številko nadomestnega dela, označbo in količino potrebnih delov ter tip in serijsko številko stroja.

RAZLAGA STOLPCEV

REF : REFERENČNA ŠIFRA

Predstavlja povezavo med delom na seznamu in delom na ilustraciji. "–" predstavlja del, ki ni prikazan na ilustraciji.

ŠTEVILKA DELA

Če številka dela ni podana potem je ne morete dobiti kot nadomestni del. Deli označeni s piko so sestavni del montaže, navedene nad njimi.

OZNAČBA

Običajno je to ime nadomestnega dela. Pri standardnih delih je poleg imena podano še število značilnosti.

QTY : KOLIČINA

Označuje količino nadomestnih delov. "AR" pomeni "kot je bilo zahtevano".

ATSARGINIŲ DALIŲ UŽSAKYMAS

Visuomet nurodykite dalies numerą, pavadinimą ir reikiamą dalių kiekį, taip pat ir mašinos tipą bei serijinį numerą.

STULPelių PAAIKINIMAI

NRD.: NUORODOS KODAS

Susieja sąrašą nurodytą dalį su jos atvaizdu iliustracijoje. "–" reiškia, jog dalis iliustracijoje nepavaizduota.

DALIES NUMERIS

Jei numerio nenurodyta, detalės negalima įsigyti kaip atsarginės dalies. Tačiau pašymėtos dalys yra prieš jas sąrašą nurodyto mazgo sudėtinė dalis.

PAVADINIMAS

Paprastai tai dalies pavadinimas. Standartinėms dalims kartu su pavadinimu nurodomos ir kelios charakteristikos.

KIEK.: KIEKIS

Nurodo susijusių dalių kiekį. "AR" reiškia "As required" (pagal poreikį).

VARUOSADE TELLIMINE

Alati viidake osa numbrile, tähisele ja vajalikule osade kogusele, samuti masina tüübile ja seerianumbrile.

SELGITUS VEERGUDE KOHTA

REF : VIITENUMBER

Loob seose nimekirjas toodud osa ja illustratsioonil esitatud osa vahel. "–" tähendab, et illustratsioonil ei ole seda osa kujutatud.

OSA NUMBER

Kui osa numbrit ei ole toodud, pole seda osa võimalik varuosana soetada. Punktiga tähistatud osad on nende kohal toodud koostu osaks.

TÄHIS

Tavaliselt on see osa nimetus. Standardosadel on lisaks nimetusele toodud ka tunnusnumber.

QTY : KOGUS

Osutab vastava osa kogusele. "AR" tähendab vajadusel ("As Required").

REZERVES DAĪU PASŪTĪDANA

Vienmēr miniet daļas numuru, apzīmējumu un nepieciešamo detaļu daudzumu, kā arī mašīnas tipu un sērijas numuru.

AIĻU IZSKAIDROJUMS

REF : ATSAUKSMES KODS

Izveido saikni starp detaļu sarakstā un detaļu uz attēla. "–" nozīmē, ka detaļa nav attēlota ilustrācijā.

DETAĻAS NUMURS

Ja detaļas numurs nav minēts, tad detaļu nevar iegūt kā rezerves daļu. Ar punktu apzīmētās detaļas ir mezgla sastāvdaļas, kurās ir attēlots tieši virs tām.

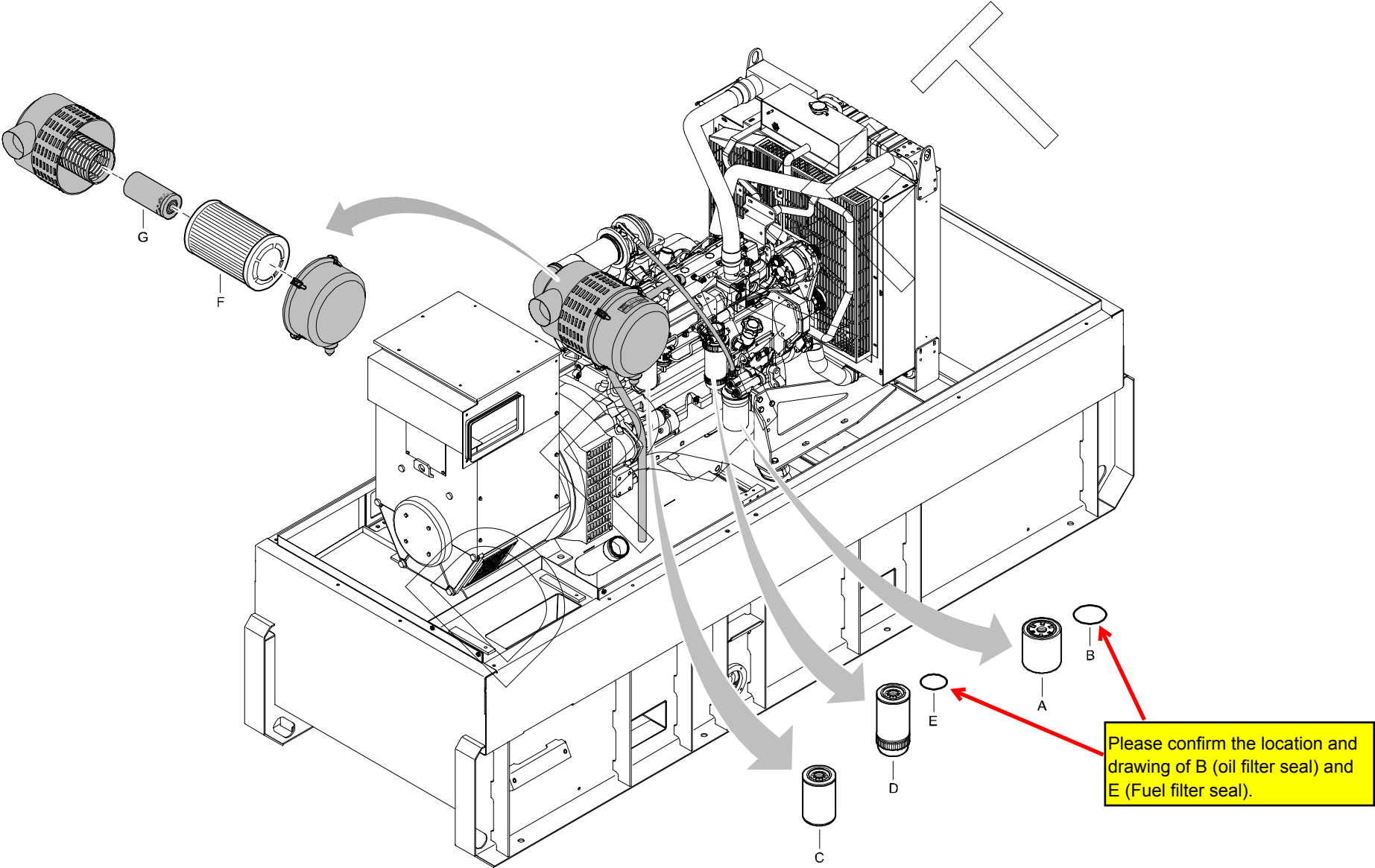
APZĪMĒJUMS

Parasti tas ir detaļas nosaukums. Standarta detaļām, papildus nosaukumam, tiek minēta virkne raksturojumu \ specifikāciju.

QTY : DAUDZUMS

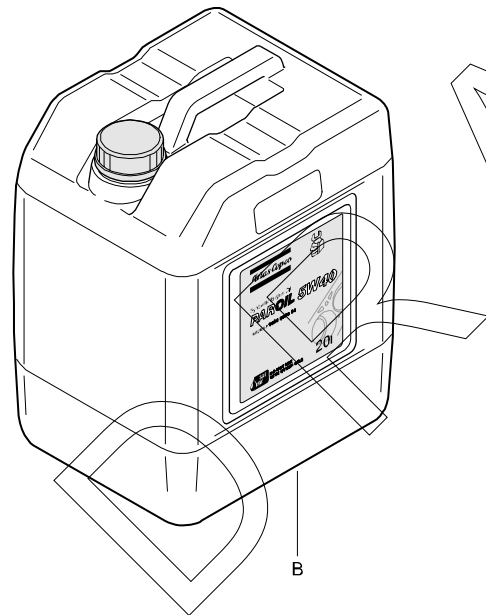
Norāda domātās detaļas daudzumu. "AR" nozīmē "As Required" – "kā nepieciešams".

DRAFT



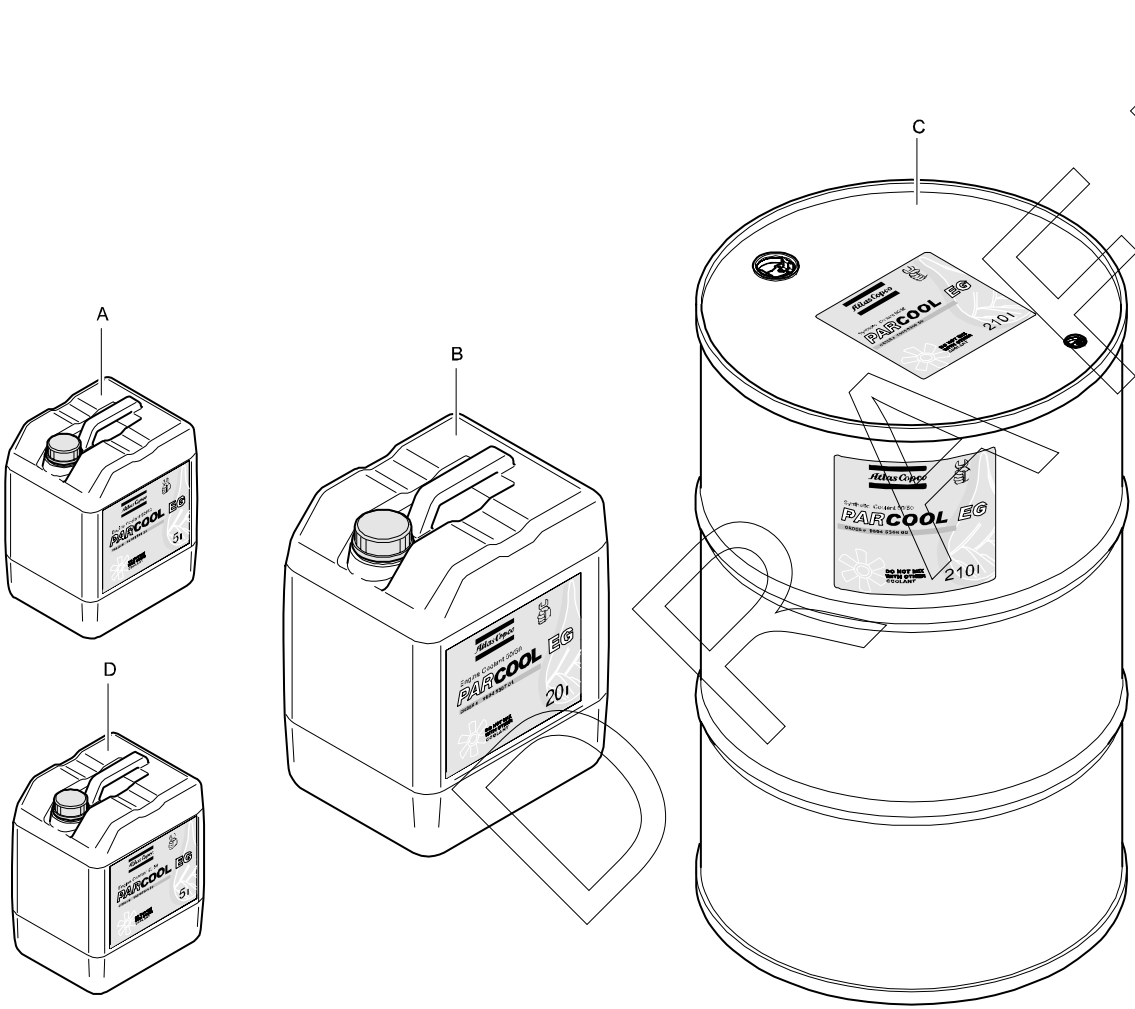
SERVICE PAK

REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
-	2912 6375 04	SERVICE PAK 250H									
•A	-	OIL FILTER	1								
•B	-	OIL FILTER SEAL	1								
-	2912 6376 05	SERVICE PAK 500H									
•A	-	OIL FILTER	1								
•B	-	OIL FILTER SEAL	1								
•C	-	FUEL FILTER	1								
•D	-	PRIMARY FUEL FILTER	1								
•E	-	FUEL FILTER SEAL	1								
•F	-	AIRFILTER ELEMENT	1								
•G	-	SAFETY CARTRIDGE	1								



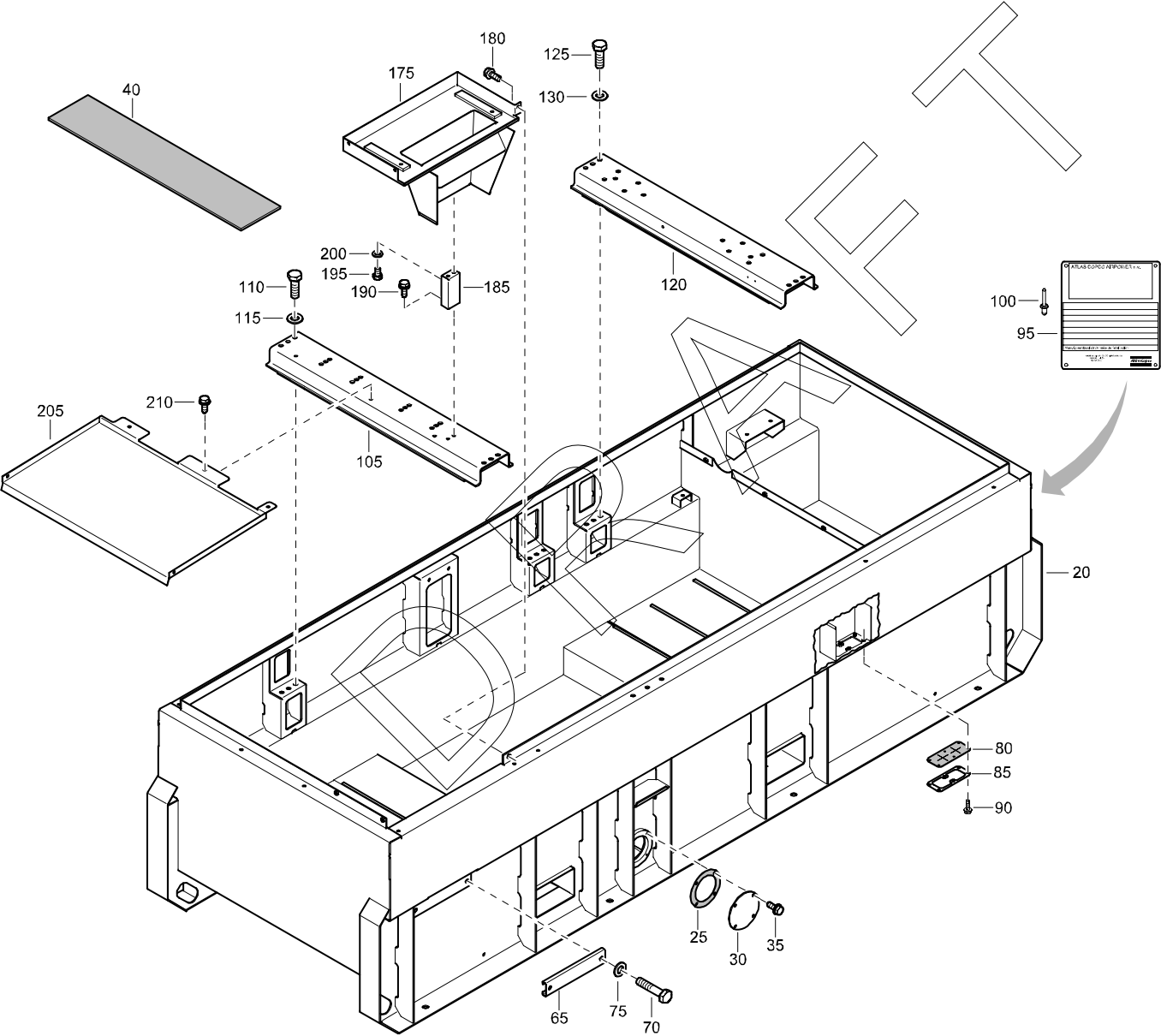
REF	PART NUMBER	DESIGNATION	QTY
A	1604 6060 01	PAROIL 5W40 5 LITER CAN	1
B	1604 6059 01	PAROIL 5W40 20 LITER CAN	1

ENGINE COOLANT - PARCOOL EG



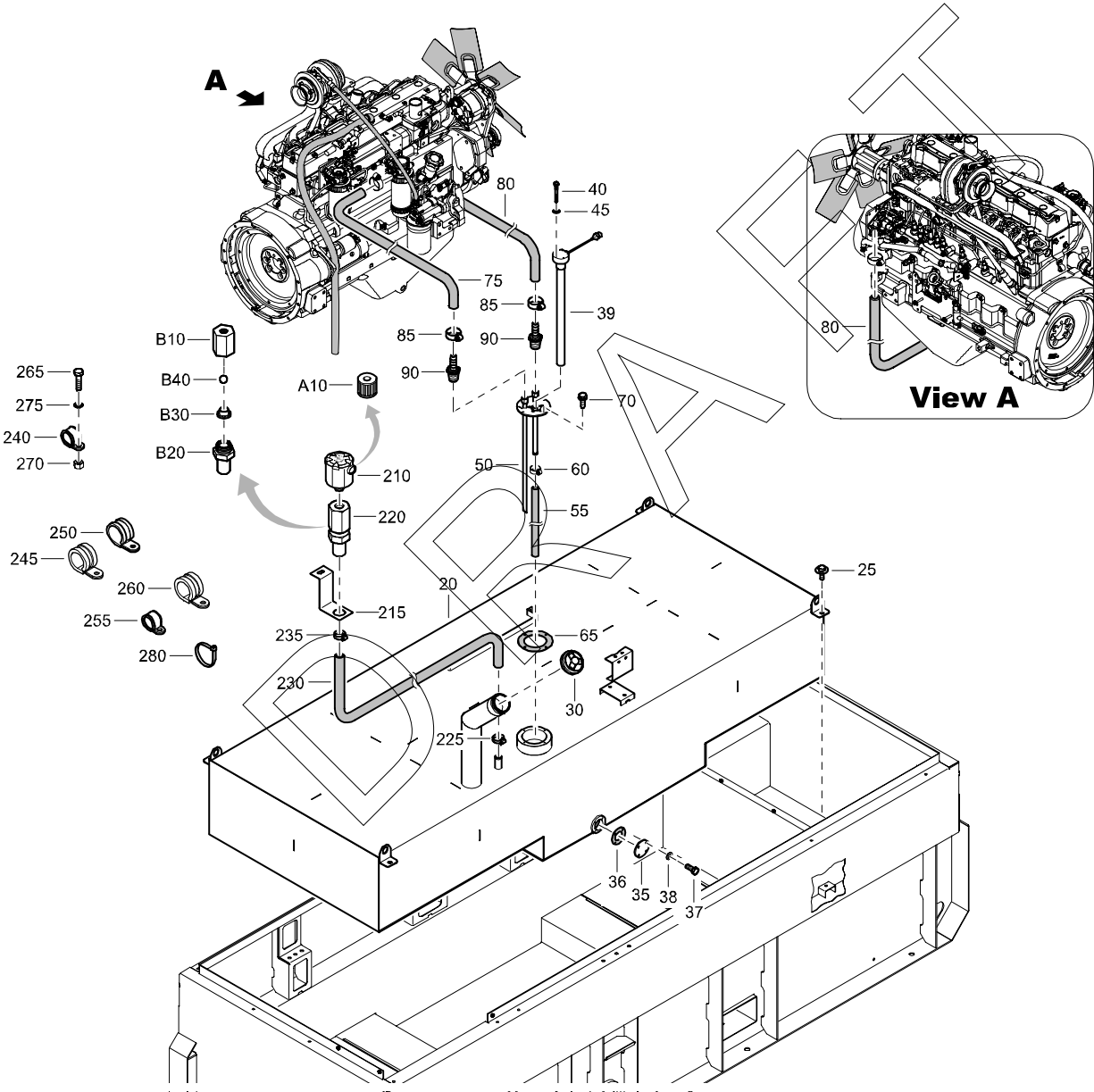
REF	PART NUMBER	DESIGNATION	QTY
A	1604 5308 00	PARCOOL EG 5 LITER CAN	1
B	1604 5307 01	PARCOOL EG 20 LITER CAN	1
C	1604 5306 00	PARCOOL EG 210 LITER BARREL	1
D	1604 8159 00	PARCOOL EG CONCENTRATE 5 LITER CAN	1

FRAME AND MOUNTS - STANDARD



FRAME AND MOUNTS - STANDARD

REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
20	1626 1011 02	FRAME	1								
25	1604 6550 00	GASKET	1								
30	1604 6551 00	FLANGE	1								
35	1619 2766 00	HEX. HEAD SCREW	4								
40	1626 0538 00	SEAL	4								
65	1626 0593 00	CLAMP	1								
70	0147 1405 03	HEX. HEAD SCREW	2								
75	0301 2358 00	PLAIN WASHER	2								
80	1626 0594 00	SEAL	1								
85	1626 0595 01	PLATE	1								
90	1619 5898 01	HEX. HEAD SCREW	6								
95	1626 1345 00	PLATE DATA	1								
100	0129 3270 34	BLIND RIVET	4								
105	1626 1073 01	BEAM	1								
110	0147 1401 03	HEX. HEAD SCREW	6								
115	0301 2358 00	PLAIN WASHER	6								
120	1626 1075 02	BEAM	1								
125	0147 1401 03	HEX. HEAD SCREW	6								
130	0301 2358 00	PLAIN WASHER	6								
175	1626 1129 00	BRACKET	1								
180	1619 2766 00	HEX. HEAD SCREW	3								
185	1626 1072 00	SUPPORT	1								
190	1619 2766 00	HEX. HEAD SCREW	2								
195	0147 1320 03	HEX. HEAD SCREW	2								
200	0301 2335 00	PLAIN WASHER	2								
205	1626 1132 00	PLATE	1								
210	1619 2766 00	HEX. HEAD SCREW	5								

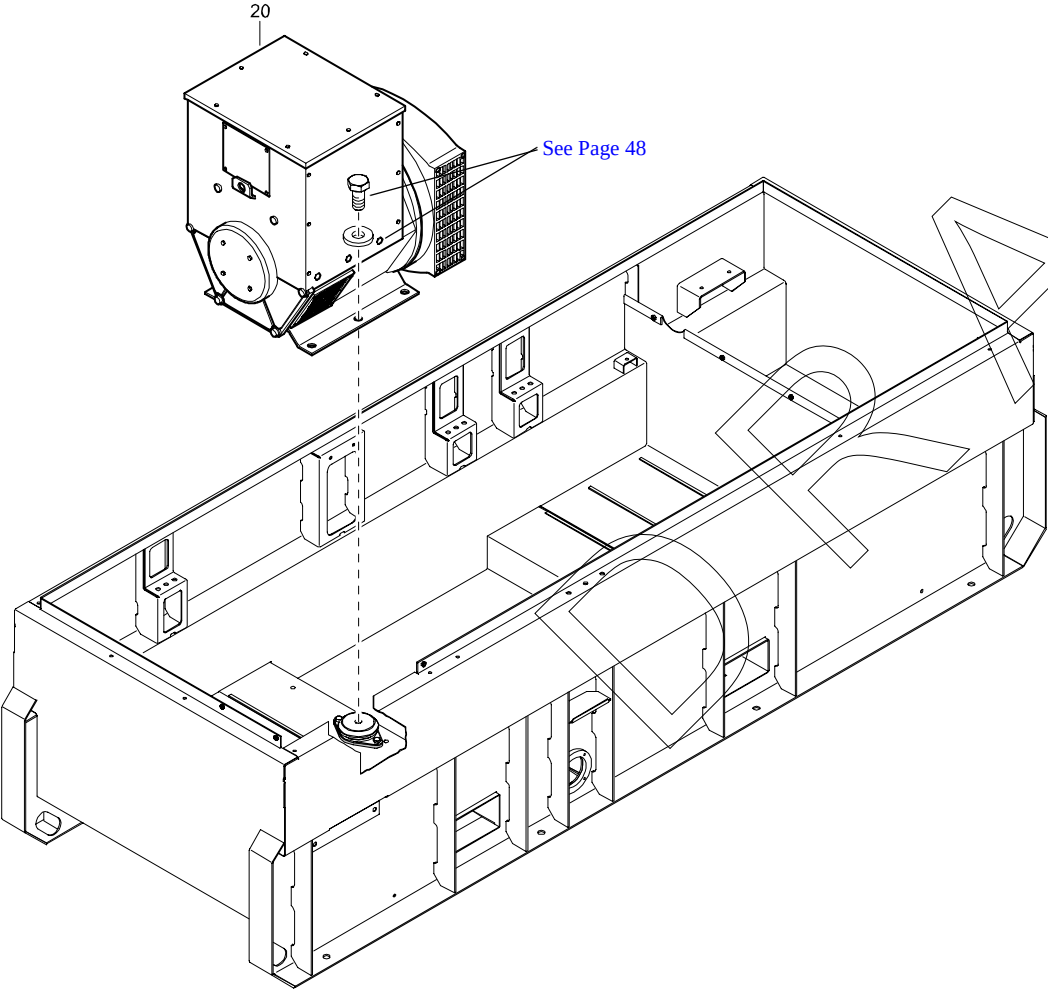


FUEL SYSTEM - STANDARD

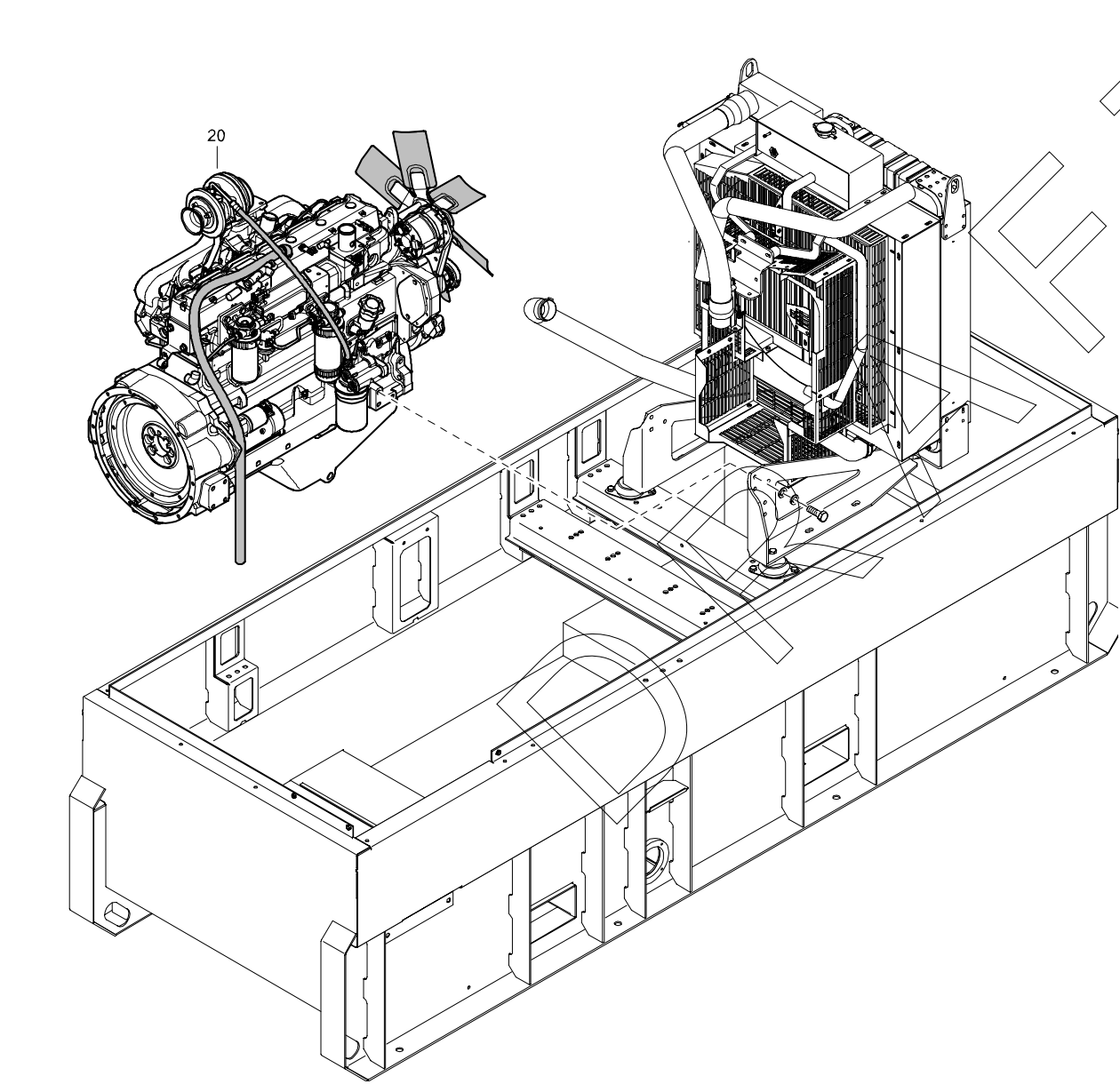
REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
20	1626 1012 02	TANK FUEL	1								
25	1615 5664 00	HEX. HEAD SCREW	4								
30	1615 6947 01	COVER	1								
35	1604 4344 00	FLANGE	1								
36	1604 4345 00	GASKET	1								
37	0147 1246 03	HEX. HEAD SCREW	4								
38	0301 2321 00	PLAIN WASHER	4								
39	1089 0659 08	LEVEL SWITCH	1								
40	0147 1213 03	HEX. HEAD SCREW	5								
45	0301 2318 00	PLAIN WASHER	5								
50	1626 0219 01	MANIFOLD	1								
55	0075 4025 44	HOSE	AR								
60	0347 6106 00	HOSE CLAMP	1								
65	1604 2780 02	GASKET	1								
70	1619 5898 01	HEX. HEAD SCREW	4								
75	0071 8402 68	FUEL HOSE	AR								
80	0071 8402 48	FUEL HOSE	AR								
85	0347 6103 00	HOSE CLAMP	2								
90	1615 8934 00	HOSE NIPPLE	2								
210	1626 0375 00	FILTER	1								
•A10	2914 9975 00	FILTER ELEMENT	1								
215	1626 1670 00	SUPPORT	1								
220	1626 0264 80	NIPPLE ASSY.	1								
•B10	1626 0264 00	NIPPLE	1								
•B20	1626 0265 00	NIPPLE	1								
•B30	1626 0266 00	WASHER	1								
•B40	0517 1100 31	BEARING BALL	1								
225	0347 6110 00	HOSE CLAMP	1								
230	0075 4025 23	FUEL HOSE	AR								
235	0347 6110 00	HOSE CLAMP	1								
240	1613 0801 07	PIPE CLAMP	10								
245	1619 2861 08	PIPE CLAMP	1								
250	1613 0801 08	PIPE CLAMP	1								
255	1613 0801 02	PIPE CLAMP	6								
260	1613 0803 02	PIPE CLAMP	7								
265	0147 1247 03	HEX. HEAD SCREW	10								
270	0266 2108 00	HEXAGON NUT	10								
275	0333 3220 00	LOCK WASHER	10								
280	1088 1301 02	CABLE STRIP	20								

ALTERNATOR - STANDARD

REF	PART NUMBER	DESIGNATION	QTY
20	1626 0785 00	ALTERNATOR	AR

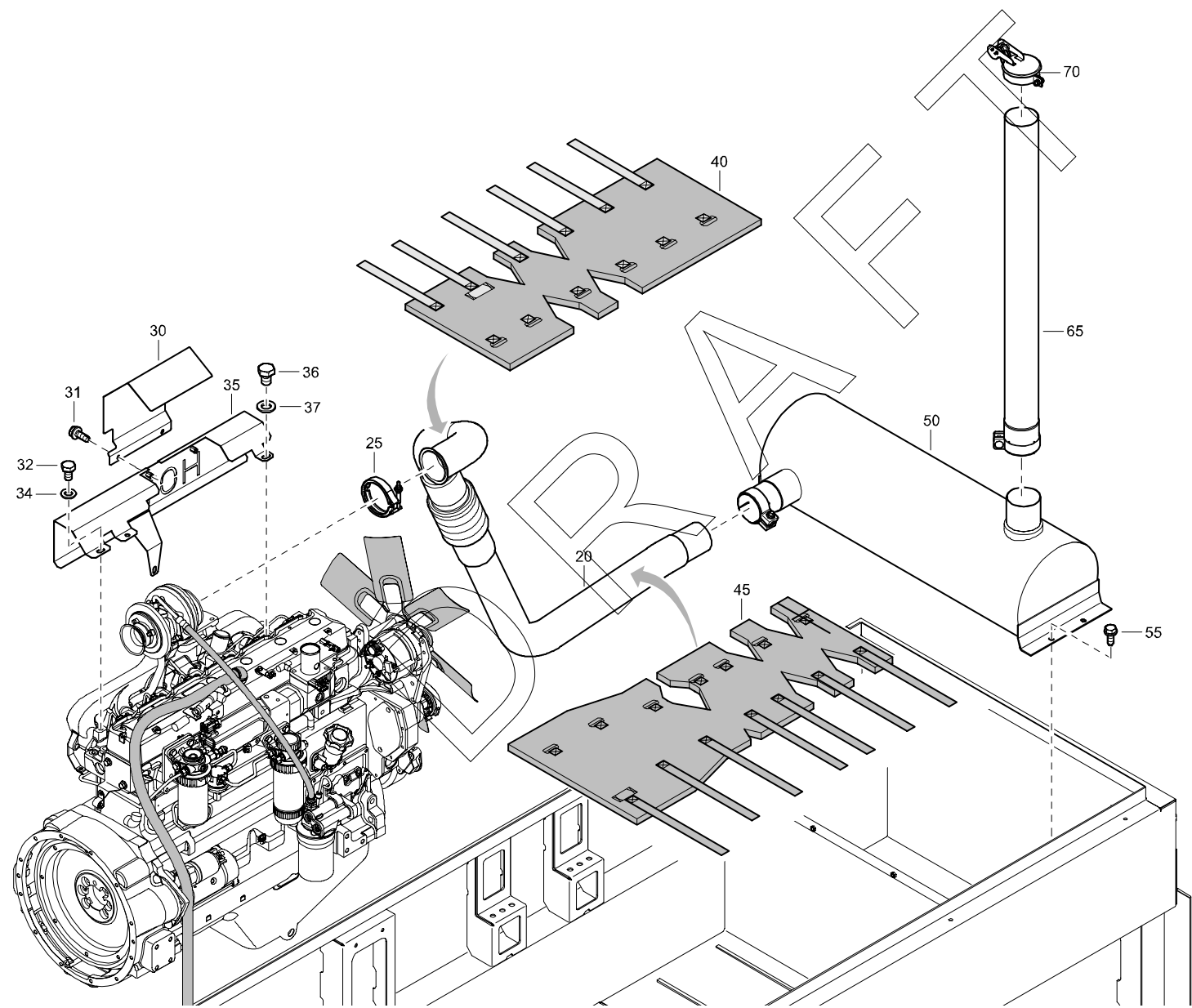


ENGINE - STANDARD



REF	PART NUMBER	DESIGNATION	QTY
20	1626 0046 00	ENGINE	1

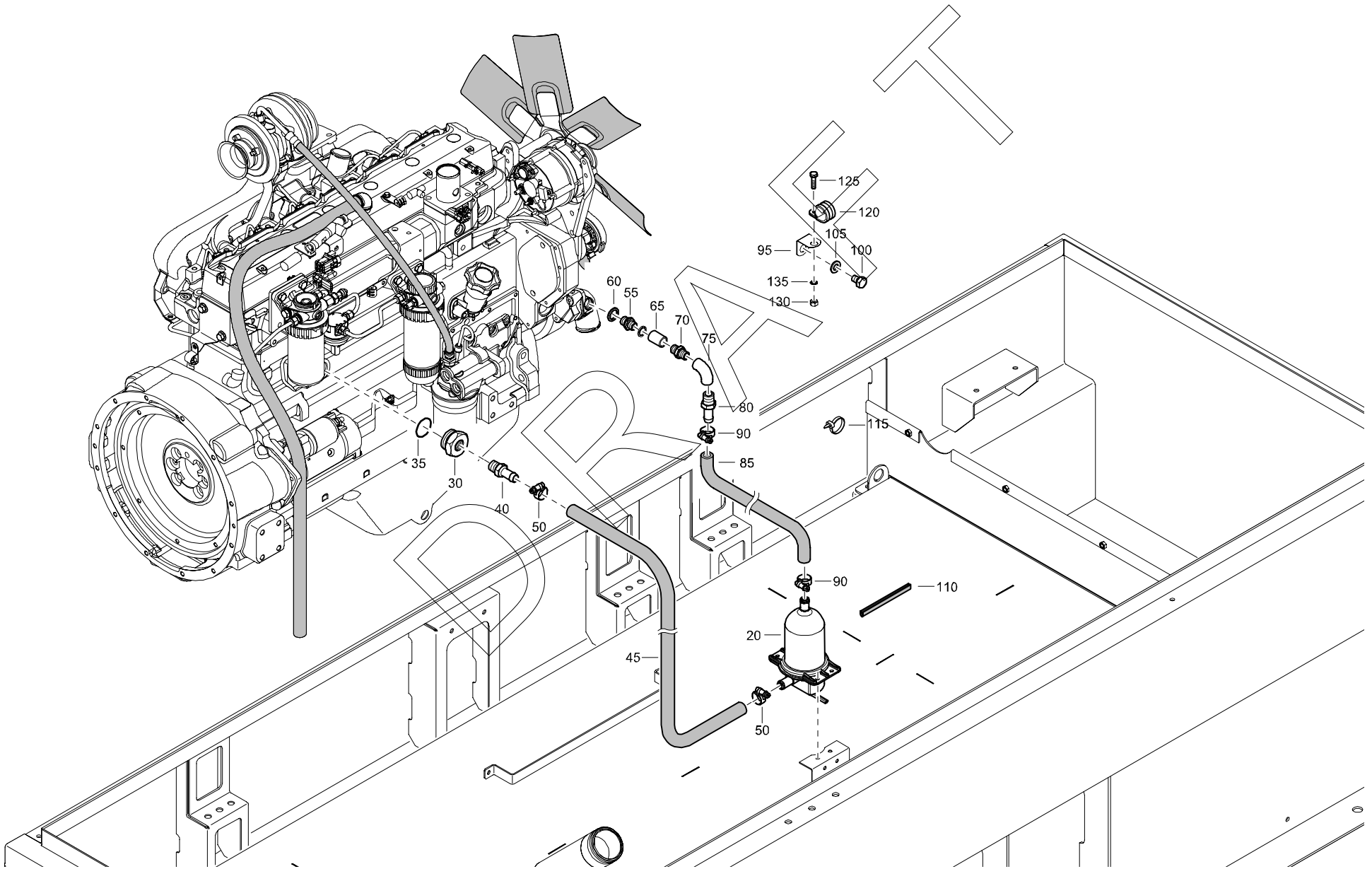
EXHAUST - STANDARD



EXHAUST - STANDARD

REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
20	1626 0293 02	PIPE EXHAUST	1								
25	1626 1394 00	CLAMP V-CLAMP	1								
30	1626 1825 01	SHIELD	1								
31	1619 2766 00	HEX. HEAD SCREW	2								
32	0147 1359 03	HEX. HEAD SCREW	2								
34	0301 2344 00	PLAIN WASHER	2								
35	1626 1826 01	SHIELD	1								
36	0147 1397 03	HEX. HEAD SCREW	1								
37	0301 2358 00	PLAIN WASHER	1								
40	1626 1769 00	INSULATION	1								
45	1626 1770 00	INSULATION	1								
50	1626 0055 01	MUFFLER	1								
55	1619 2766 00	HEX. HEAD SCREW	4								
65	1626 0218 01	PIPE	1								
70	1615 9742 00	EXHAUST COVER	1								

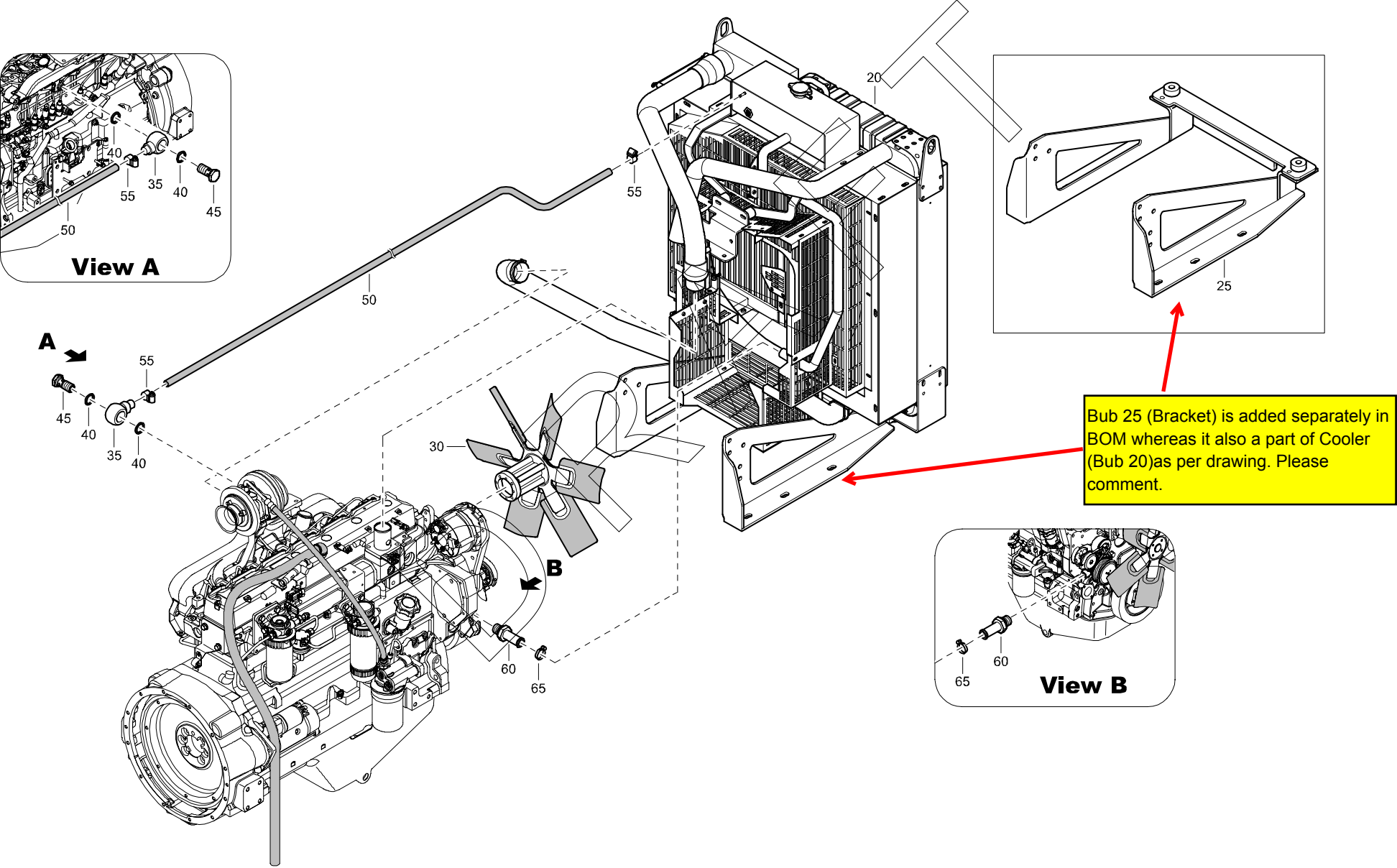
COOLANT HEATER - STANDARD



COOLANT HEATER - STANDARD

REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
20	1089 9403 02	COOLANT HEATER	1								
30	1626 1396 00	BUSHING	1								
35	0663 2107 81	O-RING	1								
40	9000 0244 00	HOSE NIPPLE	1								
45	0072 8403 16	HOSE	AR								
50	0347 6105 00	HOSE CLAMP	2								
55	1079 5840 12	PIPE COUPLING	1								
60	0661 1030 00	SEALING WASHER	1								
65	0607 1100 20	SOCKET	1								
70	0603 4104 03	HEXAGON NIPPLE	1								
75	0560 0200 29	ELBOW	1								
80	9000 0244 00	HOSE NIPPLE	1								
85	0072 8403 16	HOSE	AR								
90	0347 6105 00	HOSE CLAMP	2								
95	1613 0808 00	BRACKET	1								
100	0147 1397 03	HEX. HEAD SCREW	1								
105	0301 2358 00	PLAIN WASHER	1								
110	1503 1056 00	SEAL	AR								
115	1088 1301 03	CABLE STRIP	10								
120	1613 0801 08	PIPE CLAMP	1								
125	0147 1247 03	HEX. HEAD SCREW	1								
130	0266 2108 00	HEXAGON NUT	1								
135	0333 3220 00	LOCK WASHER	1								

COOLING SYSTEM - STANDARD

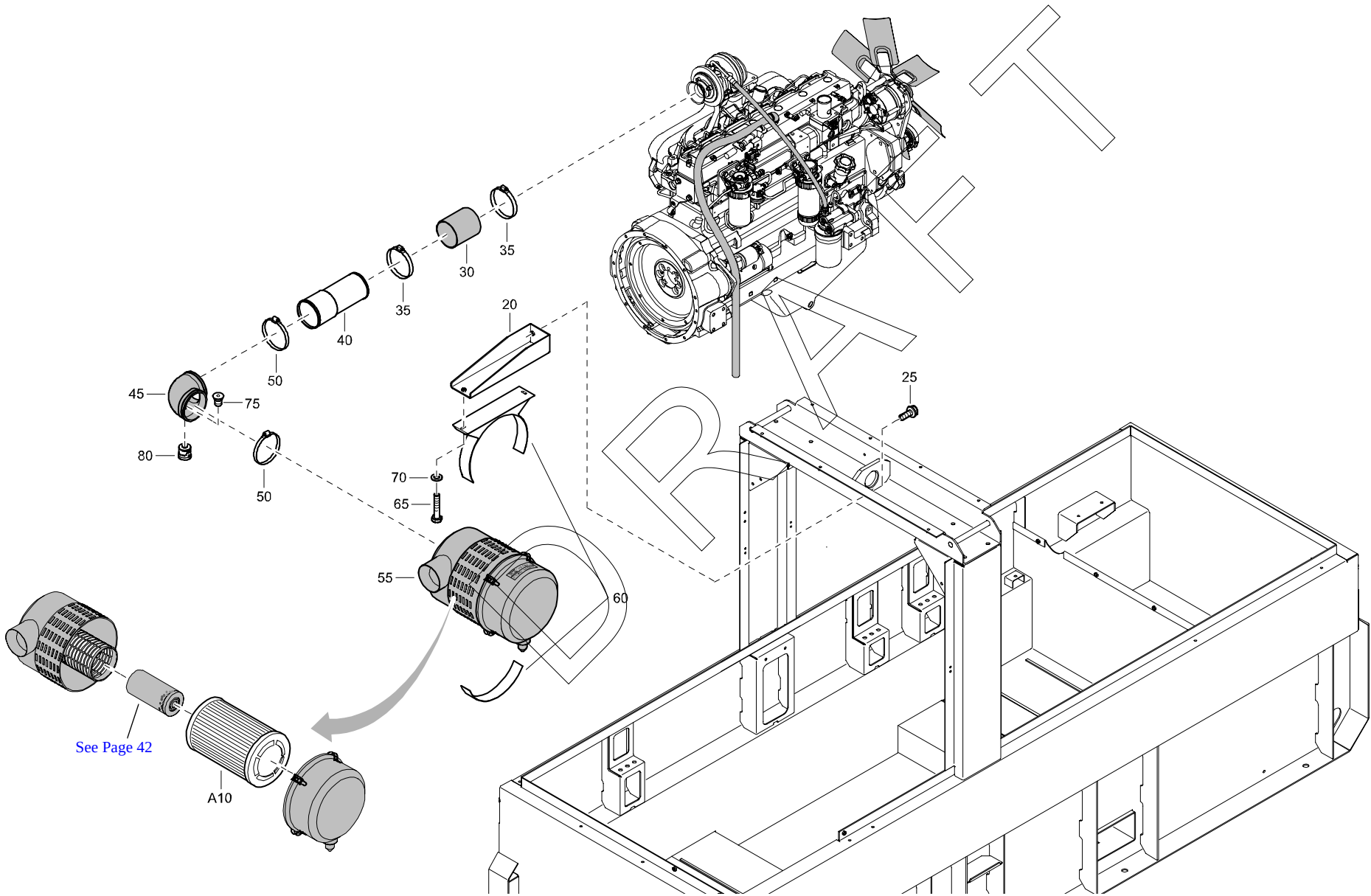


COOLING SYSTEM - STANDARD

REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
20	1626 1781 00	COOLER	1								
25	1626 1782 00	BRACKET	1								
30	1626 1783 00	FAN	1								
35	1619 1351 00	BANJO	1								
40	0653 1070 00	FLAT GASKET	2								
45	0627 4209 03	PRESSURE SCREW	1								
50	0075 4025 67	FLEXIBLE HOSE	1								
55	0347 6102 00	HOSE CLAMP	2								
60	1615 7004 00	HOSE NIPPLE	1								
65	0347 6107 00	HOSE CLAMP	1								

DRAFT

AIR INLET - STANDARD

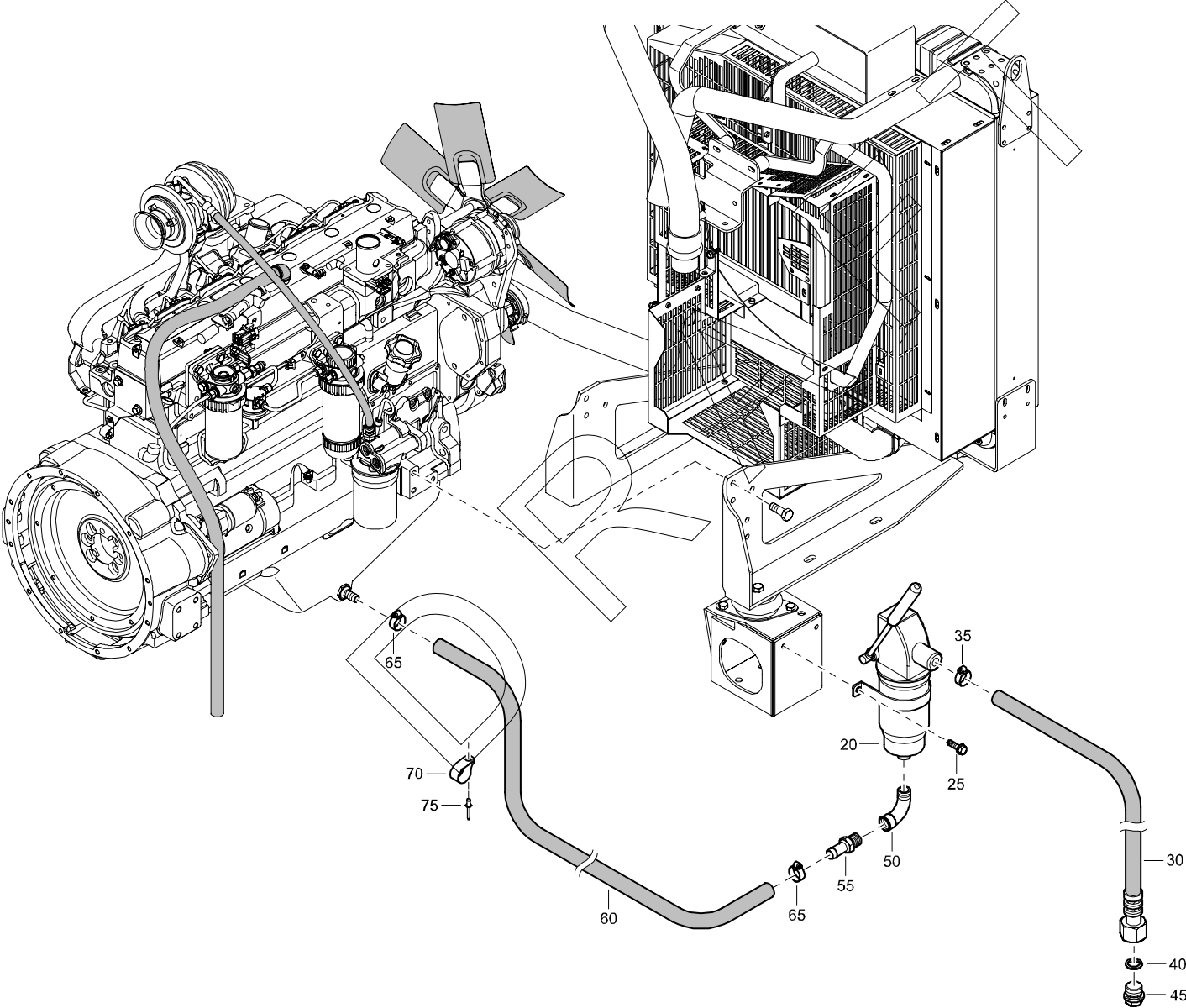


AIR INLET - STANDARD

REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
20	1626 0930 00	SUPPORT	1								
25	1619 2766 00	HEX. HEAD SCREW	3								
30	1604 0145 00	HOSE	1								
35	0347 6100 23	HOSE CLAMP	2								
40	1626 1801 00	PIPE AIR INLET	1								
45	1626 1798 00	BEND 90 DEGREES	1								
50	0347 6115 00	HOSE CLAMP	2								
55	1615 9388 01	AIRFILTER	1								
•A10	2914 9310 00	AIRFILTER ELEMENT	1								
60	1613 8005 00	SUPPORT	1								
65	0147 1328 03	HEX. HEAD SCREW	2								
70	0301 2335 00	PLAIN WASHER	2								
75	1615 6960 00	NIPPLE	1								
80	1613 7912 03	INDICATOR	1								

DRAFT

DRAINS OIL - STANDARD

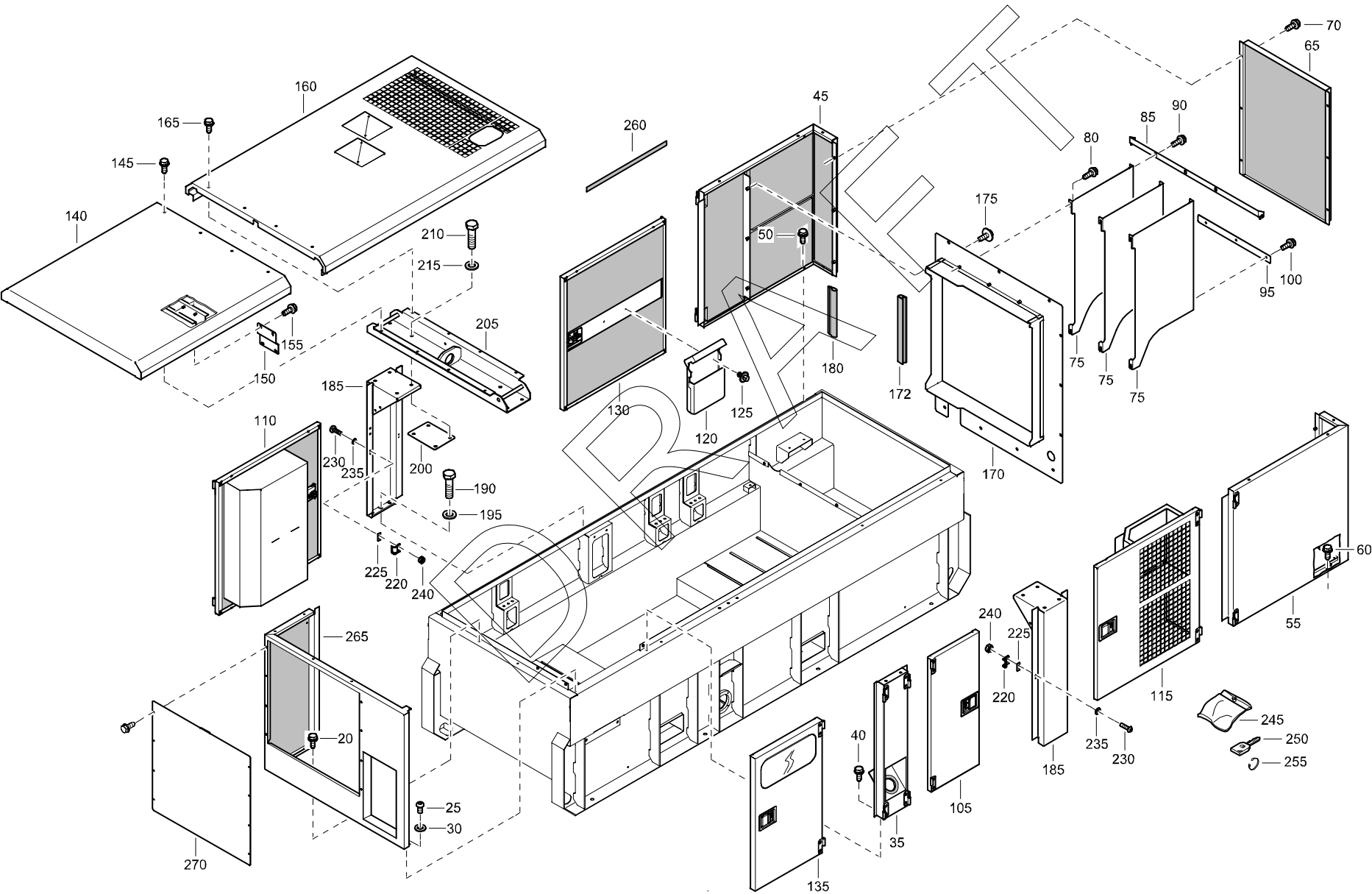


DRAINS OIL - STANDARD

REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
20	1626 0469 00	OIL DRAIN PUMP	1								
25	1619 5337 01	HEX. HEAD SCREW	2								
30	1615 8421 00	HOSE ASSEMBLY	1								
35	0347 6106 00	HOSE CLAMP	1								
40	0661 1030 00	SEALING WASHER	1								
45	0686 3716 02	HEXAGON PLUG	1								
50	0562 3105 03	BEND	1								
55	9000 0244 00	HOSE NIPPLE	1								
60	0072 8403 16	HOSE	AR								
65	0347 6106 00	HOSE CLAMP	2								
70	1079 3461 02	HOSE CLIP	1								
75	0129 3107 00	BLIND RIVET	1								

DRAFT

BODYWORK AND MOUNTS - STANDARD

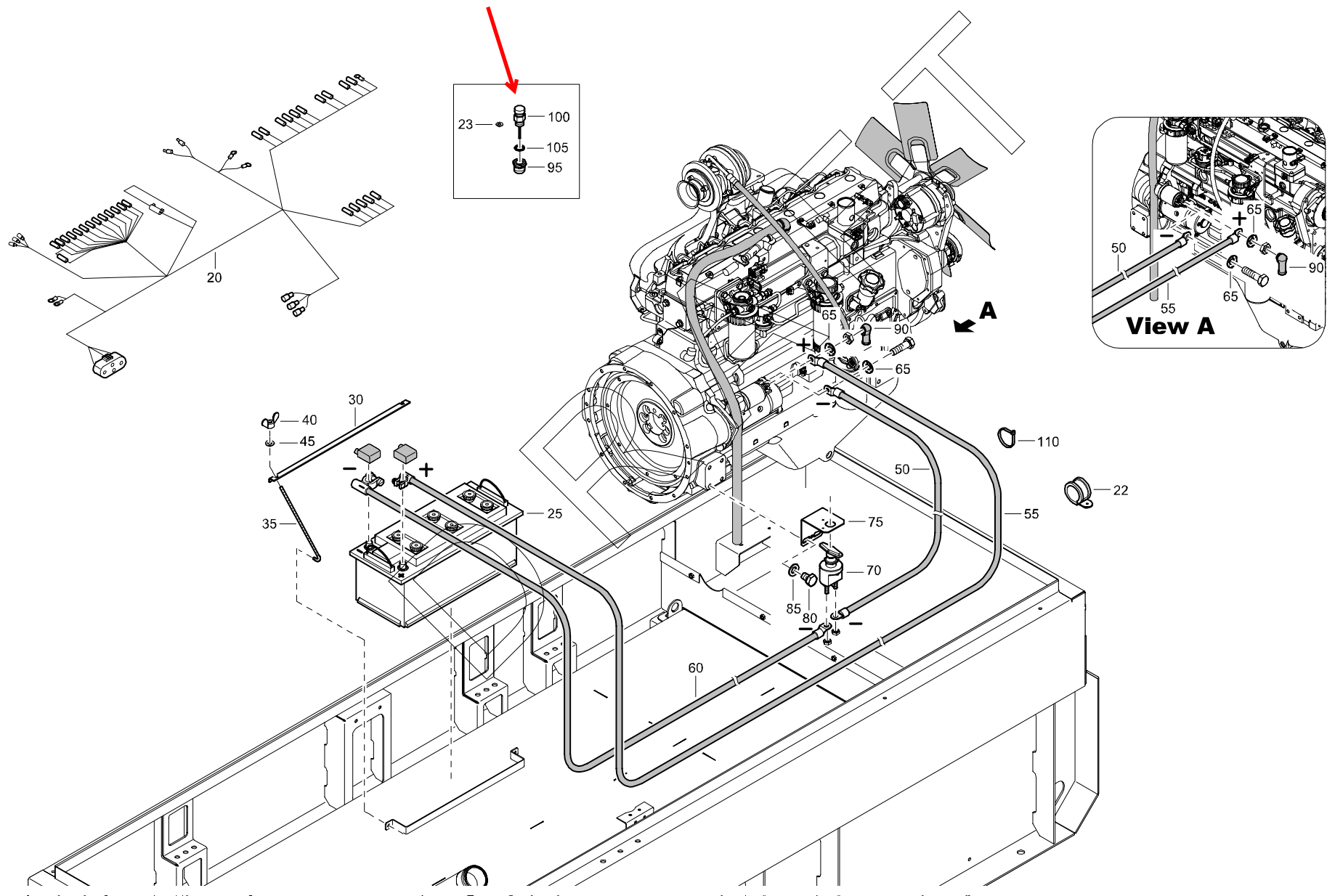


BODYWORK AND MOUNTS - STANDARD

REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
20	1619 2766 00	HEX. HEAD SCREW	4	170	1626 1718 01	PLATE	1				
25	0215 0003 77	HEX SOCK. SCREW	2	172	1503 1056 00	SEAL	AR				
30	0301 2335 00	PLAIN WASHER	2	175	1615 5664 00	HEX. HEAD SCREW	13				
35	1604 9907 80	BEAM FUEL FUNNEL (For details see page 50)	1	180	1604 9515 00	SEAL	5				
				185	1604 9919 01	BEAM	2				
40	1619 2766 00	HEX. HEAD SCREW	2	190	0147 1403 03	HEX. HEAD SCREW	6				
45	1604 9908 80	CORNER LEFT (For details see page 51)	1	195	0301 2358 00	PLAIN WASHER	6				
50	1619 2766 00	HEX. HEAD SCREW	3	200	1626 0210 00	PLATE	2				
55	1604 9908 90	CORNER LEFT (For details see page 52)	1	205	1604 9920 03	BEAM	1				
60	1619 2766 00	HEX. HEAD SCREW	3	210	0147 1403 03	HEX. HEAD SCREW	8				
65	1604 9909 80	SERVICE PANEL (For details see page 53)	1	215	0301 2358 00	PLAIN WASHER	8				
70	1619 2766 00	HEX. HEAD SCREW	6	220	1604 5031 00	BRACKET	4				
75	1604 9910 80	BAFFLE AIR OUTLET (For details see page 54)	3	225	1604 5079 00	SPACER	4				
80	1619 2766 00	HEX. HEAD SCREW	6	230	0215 0003 89	SCREW	8				
85	1626 0212 00	SUPPORT	1	235	0301 2321 00	PLAIN WASHER	8				
90	1619 2766 00	HEX. HEAD SCREW	5	240	0291 1108 00	LOCKNUT	8				
95	1626 0516 00	SUPPORT	1	245	0017 9861 53	PLASTIC BAG	1				
100	1619 2766 00	HEX. HEAD SCREW	3	250	1615 7271 00	KEY	2				
105	1604 9911 80	DOOR SMALL (For details see page 55)	1	255	1088 1301 03	CABLE STRIP	1				
110	1626 1753 80	DOOR (For details see page 59)	1	260	1615 7057 00	SEAL	AR				
115	1626 1756 80	DOOR BIG (For details see page 60)	1	265	1604 9904 80	CORNER 3 PHASE SOCKETS (For details see page 49)	1				
120	1604 2206 00	HOLDER (DOCUMENT)	1								
125	1615 5556 00	RIVET	2	270	1626 1797 80	PLATE ASSY (For details see page 62)	1				
130	1604 9912 90	DOOR BIG LH (For details see page 56)	1								
135	1604 9913 80	DOOR CUBICLE (For details see page 57)	1								
140	1604 9915 80	ROOF ALTERNATOR (For details see page 58)	1								
145	1619 2766 00	HEX. HEAD SCREW	10								
150	1626 0510 00	BRACKET	1								
155	1619 2766 00	HEX. HEAD SCREW	4								
160	1626 1786 80	ROOF ENGINE (For details see page 61)	1								
165	1619 2766 00	HEX. HEAD SCREW	10								

ELECTRICAL SYSTEM - STANDARD

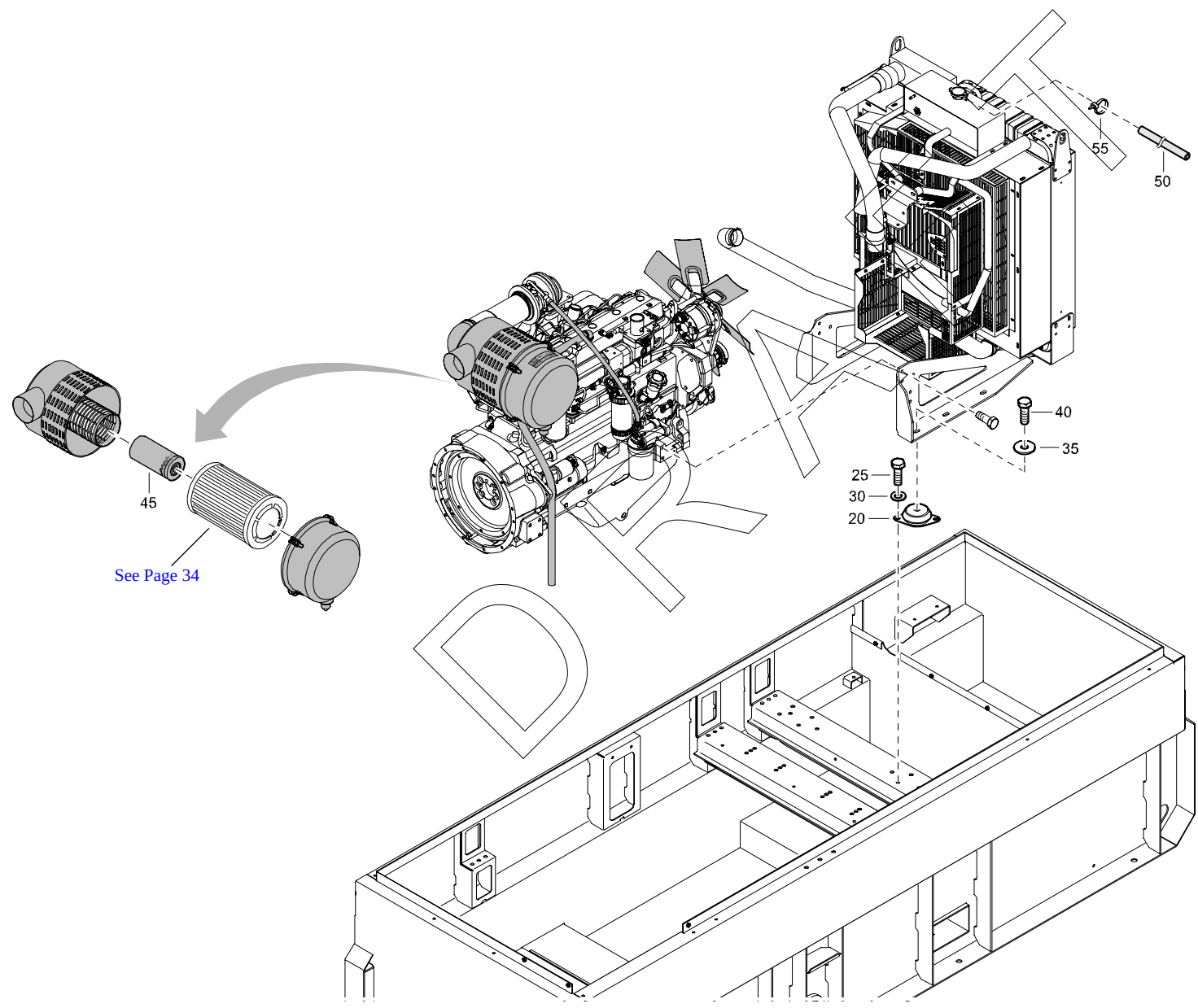
Need location for these parts.



ELECTRICAL SYSTEM - STANDARD

REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
20	1626 0760 01	WIRING	1								
22	0346 1000 19	PIPE CLAMP	1								
23	0301 2321 00	PLAIN WASHER	1								
25	0975 8300 16	BATTERY	1								
30	1626 0213 00	BRACKET	1								
35	1626 0527 00	HOOK	2								
40	0296 1110 02	WING NUT	2								
45	0301 2335 00	PLAIN WASHER	2								
50	1604 7846 00	CABLE (ELEC)	1								
55	1626 1820 00	CABLE	1								
60	1626 1821 00	CABLE	1								
65	1088 0019 03	CONTACT WASHER	2								
70	1089 0584 01	BATTERY SWITCH	1								
75	1604 3473 02	SUPPORT	1								
80	0147 1397 03	HEX. HEAD SCREW	4								
85	0301 2358 00	PLAIN WASHER	4								
90	1604 3329 00	PROTECTION CAP	1								
95	1626 1813 00	ADAPTER	1								
100	1089 9467 21	SWITCH	1								
105	0653 1070 00	FLAT GASKET	1								
110	1088 1301 03	CABLE STRIP	20								

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ENGINE AND ACCESSORIES - STANDARD

REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
20	1626 0440 00	ANTIVIBRATION PAD	2								
25	0147 1401 03	HEX. HEAD SCREW	4								
30	0301 2358 00	PLAIN WASHER	4								
35	0302 1274 02	PLAIN WASHER	2								
40	0147 1401 03	HEX. HEAD SCREW	2								
45	2914 9311 00	SAFETY CARTRIDGE	1								
50	0099 9910 29	PLASTIC TUBE	AR								
55	1088 1301 03	CABLE STRIP	5								

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MARKINGS - STANDARD

REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
20	1079 9901 87	LABEL	1								
25	0690 1150 01	HOUSE MARK	2								
30	1626 0643 00	LABEL	2								
35	1079 9924 98	INFORMATION LABEL	1								
40	0690 1140 00	HOUSE MARK	2								
45	1079 9903 61	LABEL	1								
50	1079 9902 63	WARNING LABEL	1								
55	1079 9922 07	INFORMATION LABEL	1								
60	1079 9927 62	LABEL	1								
65	1604 7907 02	LABEL	1								
70	1079 9920 45	INFORMATION LABEL	1								
75	1079 9902 47	WARNING LABEL	1								
80	1079 9903 16	WARNING LABEL	1								
85	1079 9909 44	INFORMATION LABEL	1								
150	1088 1001 02	WARNING MARK	1								

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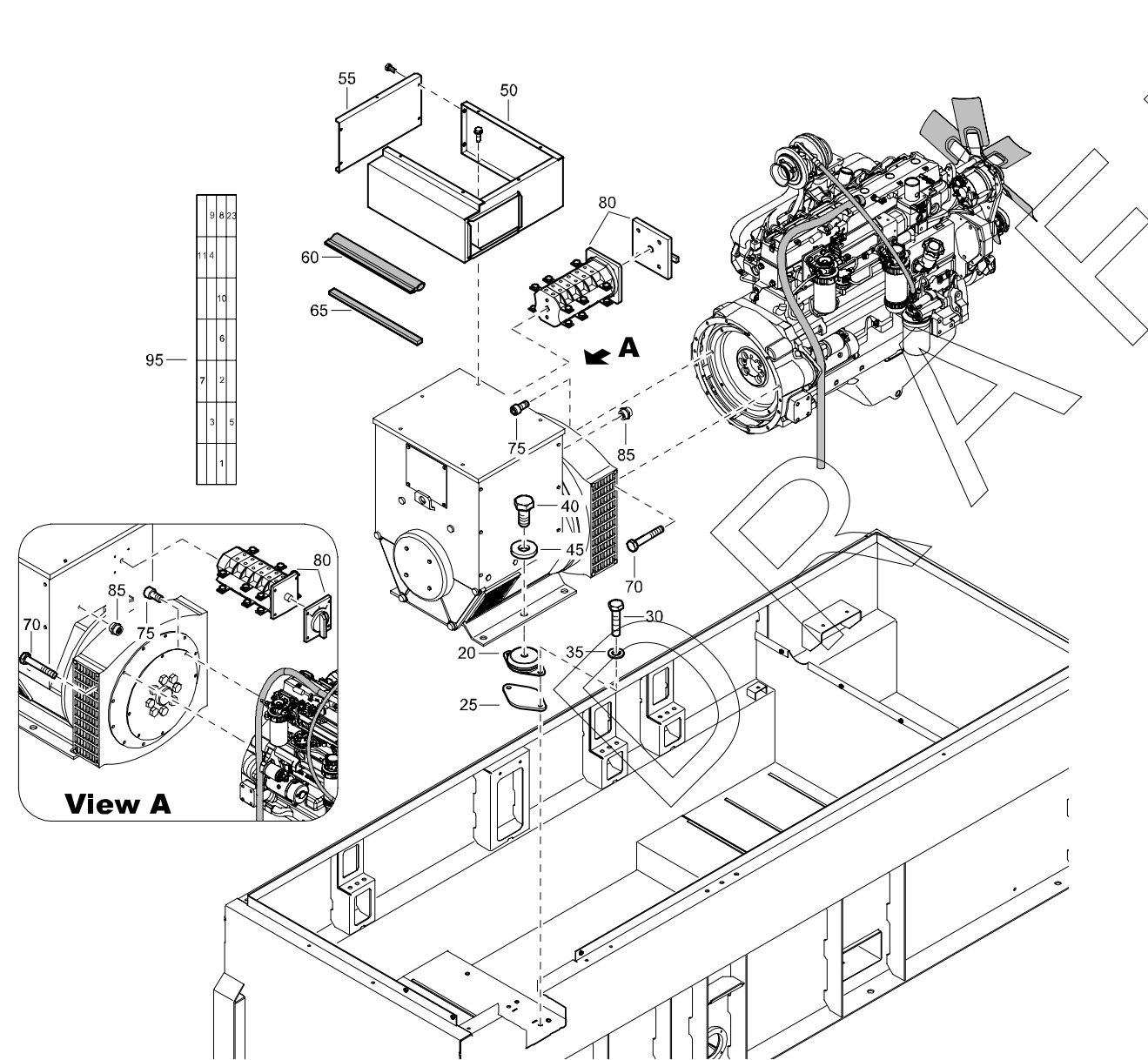
We have prepared this part list as per the BOM available in BPCS whereas the DN for this part list is still not released. Please comment.



CUBICLE AND ACCESSORIES - STANDARD

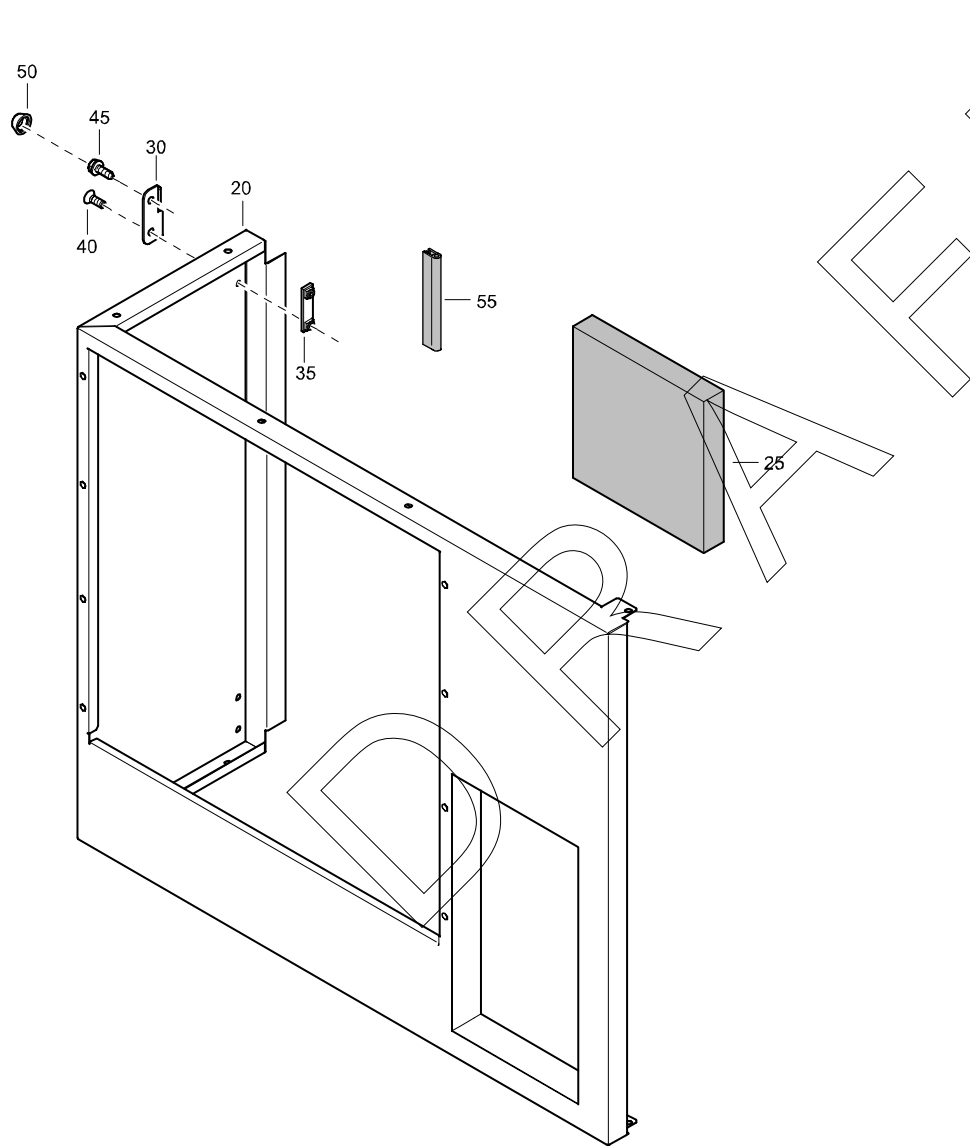
REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY	REF	PART NUMBER	DESIGNATION	QTY
20	1900 1034 10	ASSEMBLY CUBICLE	1								
•A10	1626 0493 01	BOX	AR								
•A20	1626 0494 00	PLATE	1								
•A30	1626 0495 01	SUPPORT	AR								
•A40	1626 0496 00	SUPPORT	AR								
•A50	1503 1056 00	SEAL	AR								
•A80	0698 0156 00	GROMMET	1								
•A100	0993 7106 00	MOUNTING RAIL	AR								
•A110	1089 9474 69	CIRCUIT BREAKER	1								
•A112	1089 9474 72	SHUNT TRIP COIL	2								
•A113	1088 0500 05	COVER PLATE	AR								
•A114	1626 0499 00	STRIP	4								
•A116	1089 9474 70	CIRCUIT BREAKER	1								
•A118	1626 0500 00	STRIP	AR								
•A190	1604 2284 00	EARTH RAIL ASS'Y	1								
•A210	1089 9484 21	CURRENT TRANSFORMER	3								
•A220	1089 9422 06	EMERGENCY STOP	1								
•A222	1079 9910 05	INFO LABEL	1								
•A230	1089 9356 11	FUSE HOLDER	1								
•A232	1089 9356 15	FUSE HOLDER	1								
•A234	1089 9332 01	FUSE	5								
•A240	1089 9384 01	AUXILIARY RELAY	2								
•A250	1089 9496 20	CONTACTOR	1								
•A290	1088 0029 50	HOUSING	1								
•A500	1900 1034 72	ASSEMBLY SOCKET PANEL	1								
		(For details see page 63)									
•A502	0993 7106 00	MOUNTING RAIL	AR								
•A510	1900 1034 50	TERMINAL	1								
••B510	1615 8508 00	TERMINAL BOARD	1								
•••C10	1615 8893 00	TERMINAL	5								
•A520	1626 0498 00	DOOR	1								
•A522	1079 9927 05	WARNING LABEL	1								
•A524	1615 6728 00	PLATE	1								
•A526	1615 7166 00	STUD	1								
•A528	1615 6727 00	WASHER	1								
•A658	0697 9809 20	LOCK NUT	1								
•A660	0698 5140 71	CABLE GLAND	1								
•A800	1900 1034 85	CONTROL PANEL	1								
		(For details see page 64)									

ALTERNATOR AND ACCESSORIES - STANDARD



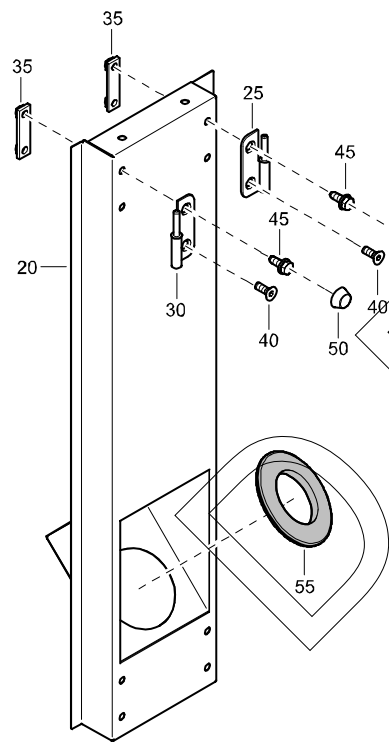
REF	PART NUMBER	DESIGNATION	QTY
20	1615 5509 00	RUBBER BUFFER	2
25	1604 9921 00	SUPPORT	4
30	0147 1404 15	HEX. HEAD SCREW	4
35	0301 2358 00	PLAIN WASHER	4
40	0147 1958 96	HEX. HEAD SCREW	2
45	0300 0276 23	PLAIN WASHER	2
50	1626 1681 00	BOX CABLE	1
55	1626 1686 00	PLATE	1
60	1604 9515 00	SEAL	AR
65	1615 7057 00	SEAL	AR
70	0147 1368 03	HEX. HEAD SCREW	12
75	0211 5162 06	SCREW	8
80	1089 9082 36	SELECTOR SWITCH	1
85	1089 9385 03	ISOLATOR	1
95	1089 9082 99	DECAL	1

CORNER - FOR CUBICLE WITH 3 PHASE SOCKETS - STANDARD



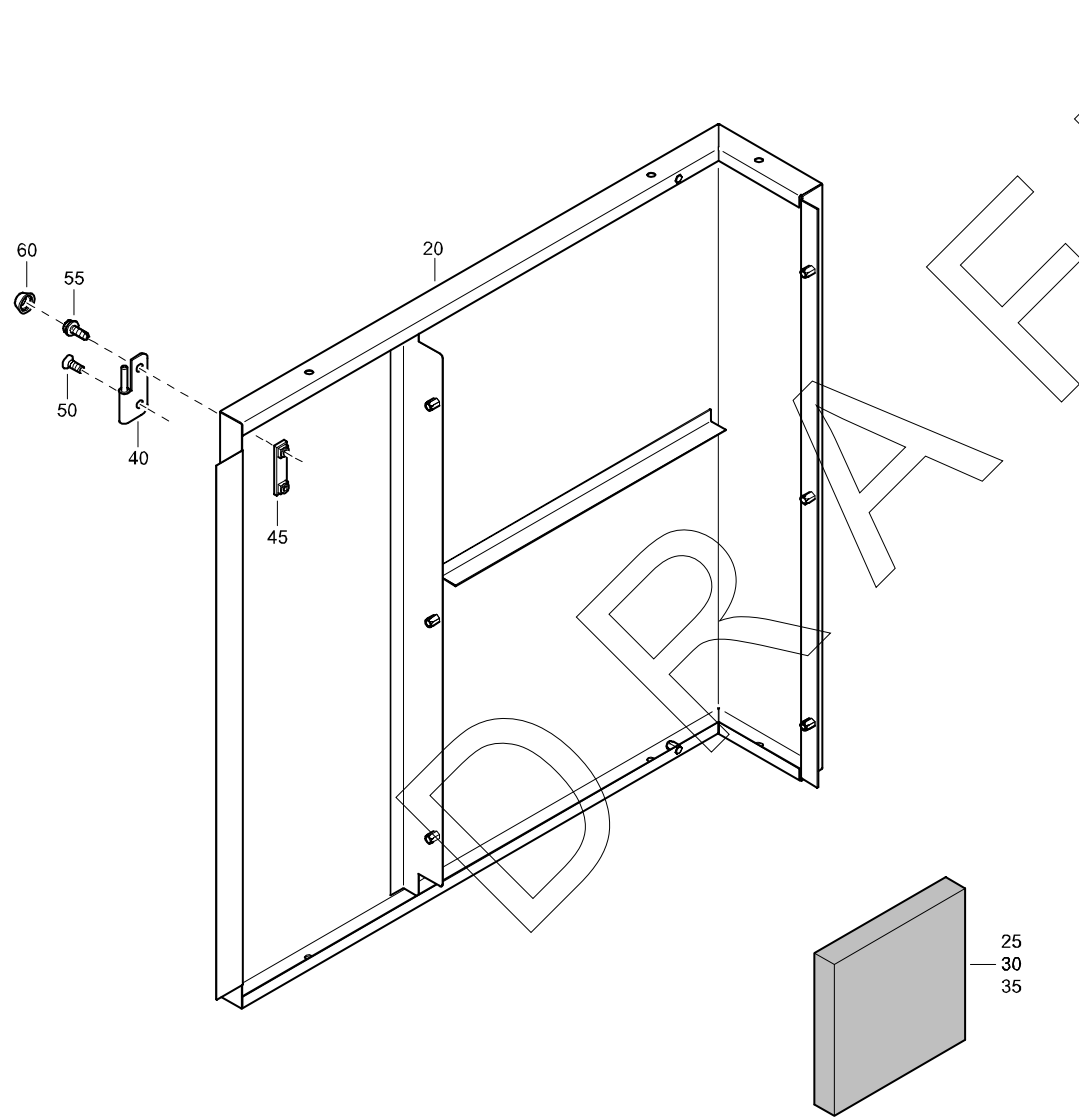
REF	PART NUMBER	DESIGNATION	QTY
-	1604 9904 80	CORNER 3 PHASE SOCKETS (From page 38)	
•20	1604 9904 03	CORNER	1
•25	-	SILENCING FOAM (30 mm)	1
•30	1604 3430 00	HINGE	2
•35	1615 5684 00	BRACKET	2
•40	0216 1324 03	HEX SOCK. SCREW	2
•45	1619 2766 00	HEX. HEAD SCREW	2
•50	1613 3672 00	CAP	2
•55	1202 6584 00	SEAL	AR
-	1079 0003 32	SILENCING FOAM 2000 mm x 1500 mm x 30 mm	

BEAM - FUEL FUNNEL - STANDARD



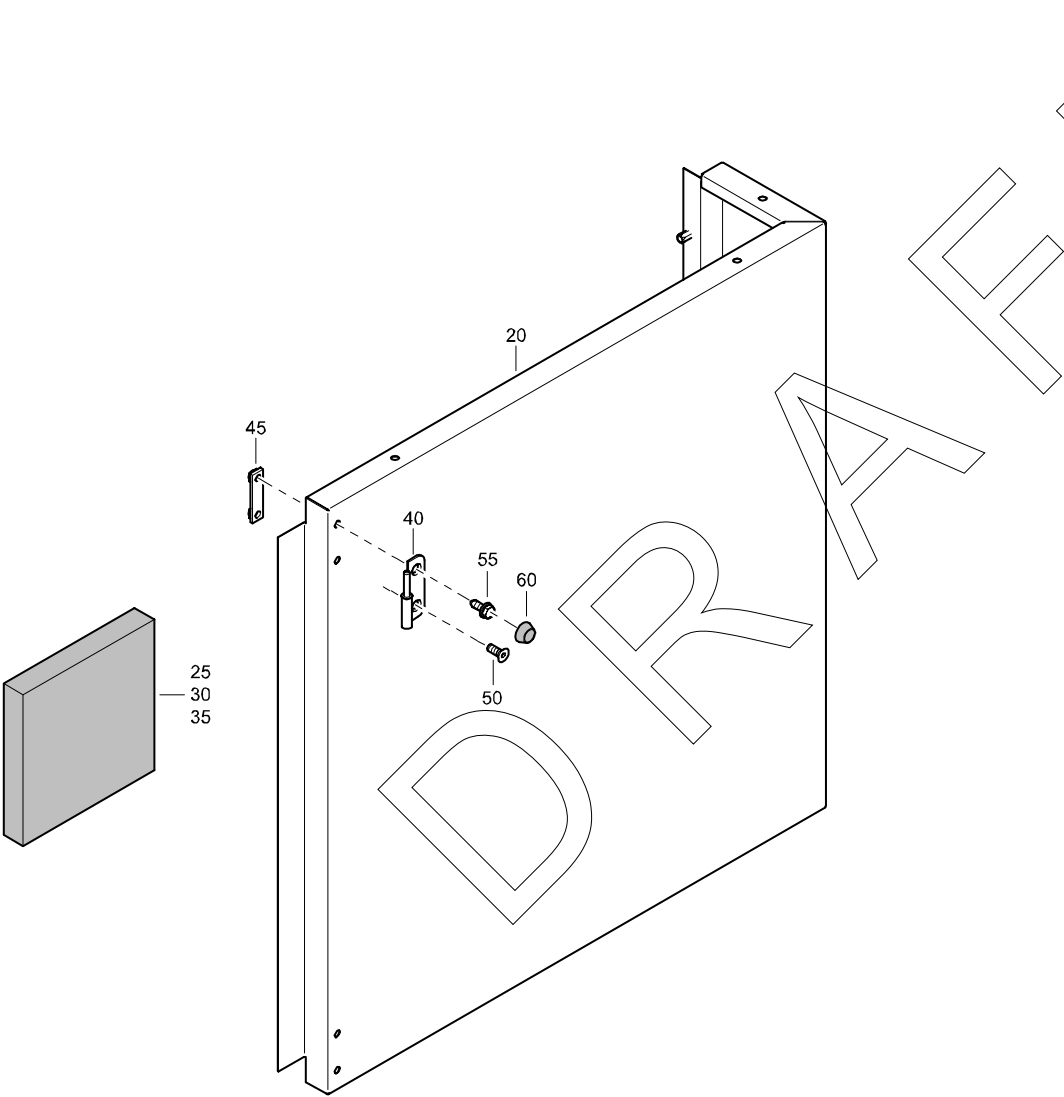
REF	PART NUMBER	DESIGNATION	QTY
-	1604 9907 80	BEAM FUEL FUNNEL (From page 38)	
•20	1604 9907 01	BEAM	1
•25	1604 3430 00	HINGE	2
•30	1604 3428 00	HINGE	2
•35	1615 5684 00	BRACKET	4
•40	0216 1324 03	HEX SOCK. SCREW	4
•45	1619 2766 00	HEX. HEAD SCREW	4
•50	1613 3672 00	CAP	4
•55	1604 0248 00	RUBBER RING	1

CORNER - LEFT - STANDARD



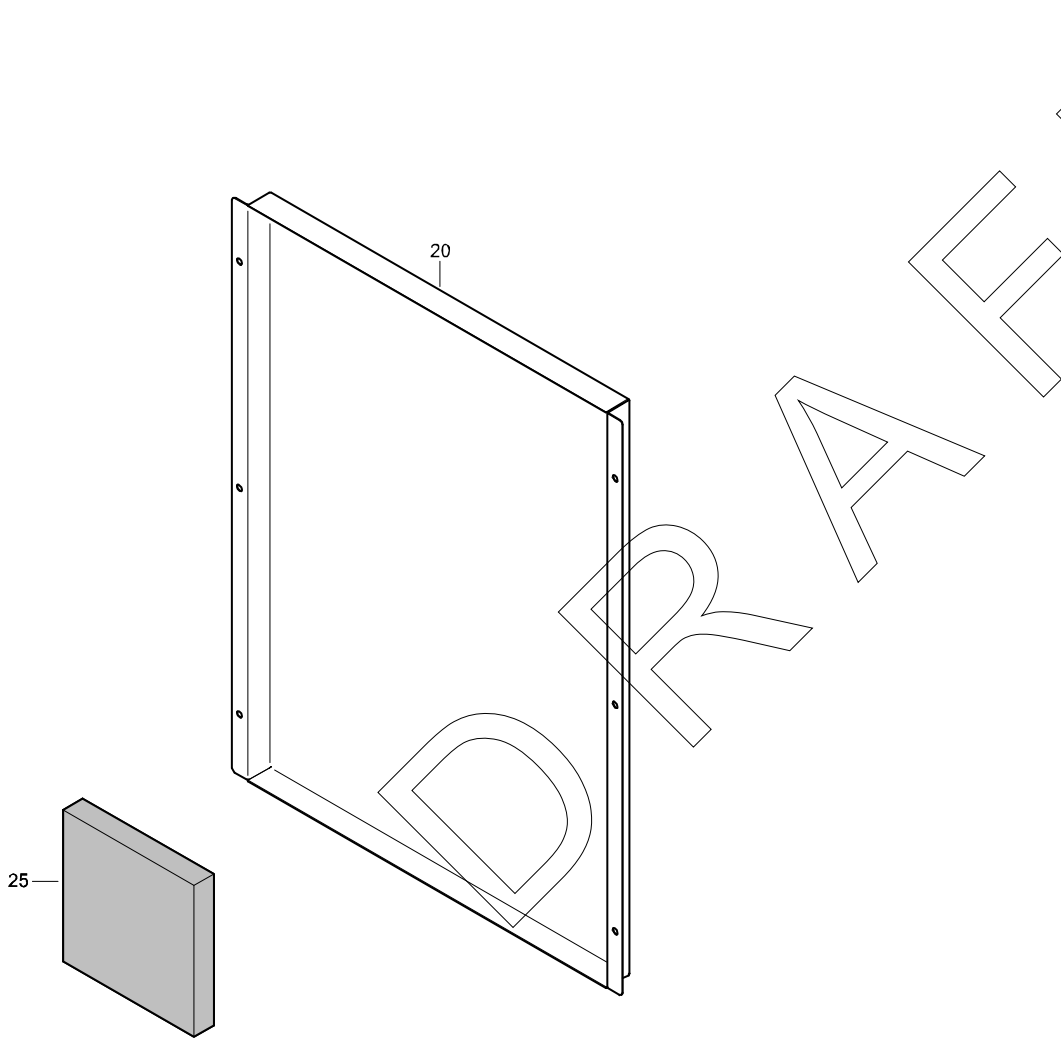
REF	PART NUMBER	DESIGNATION	QTY
-	1604 9908 80	CORNER LEFT (From page 38)	
•20	1604 9908 00	CORNER	1
•25	-	SILENCING FOAM (30 mm)	2
•30	-	SILENCING FOAM (30 mm)	1
•35	-	SILENCING FOAM (30 mm)	1
•40	1604 3428 00	HINGE	2
•45	1615 5684 00	BRACKET	2
•50	0216 1324 03	HEX SOCK. SCREW	2
•55	1619 2766 00	HEX. HEAD SCREW	2
•60	1613 3672 00	CAP	2
-	1079 0003 32	SILENCING FOAM 2000 mm x 1500 mm x 30 mm	

CORNER - LEFT - STANDARD



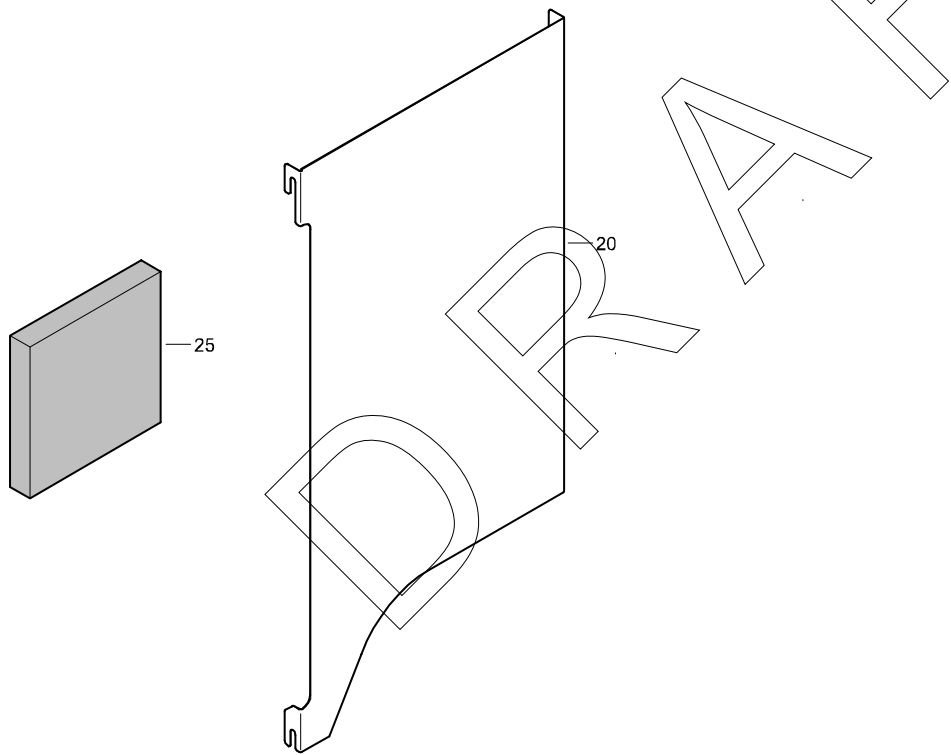
REF	PART NUMBER	DESIGNATION	QTY
-	1604 9908 90	CORNER LEFT (From page 38)	
•20	1604 9908 00	CORNER	1
•25	-	SILENCING FOAM (30 mm)	2
•30	-	SILENCING FOAM (30 mm)	1
•35	-	SILENCING FOAM (30 mm)	1
•40	1604 3430 00	HINGE	2
•45	1615 5684 00	BRACKET	2
•50	0216 1324 03	HEX SOCK. SCREW	2
•55	1619 2766 00	HEX. HEAD SCREW	2
•60	1613 3672 00	CAP	2
-	1079 0003 32	SILENCING FOAM 2000 mm x 1500 mm x 30 mm	

SERVICE PANEL - STANDARD



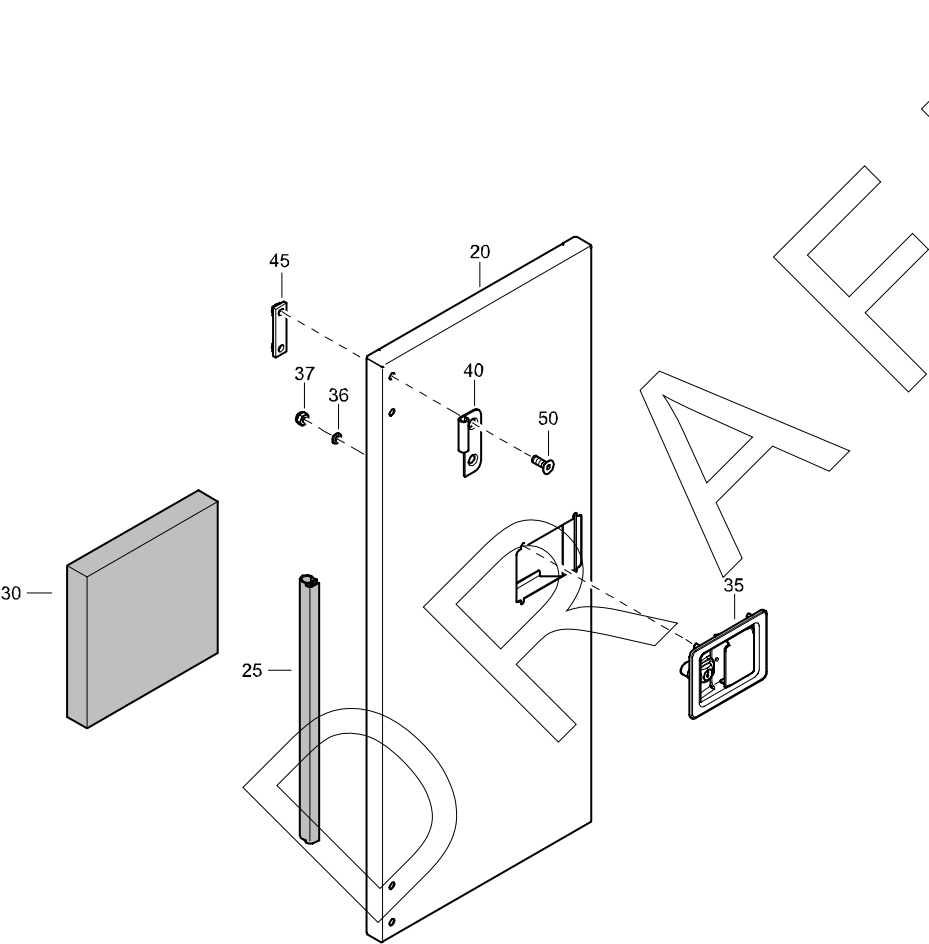
REF	PART NUMBER	DESIGNATION	QTY
-	1604 9909 80	SERVICE PANEL (From page 38)	
•20	1604 9909 00	PANEL	1
•25	-	SILENCING FOAM (30 mm)	1
-	1079 0003 32	SILENCING FOAM 2000 mm x 1500 mm x 30 mm	

BAFFLE - AIR OUTLET - STANDARD

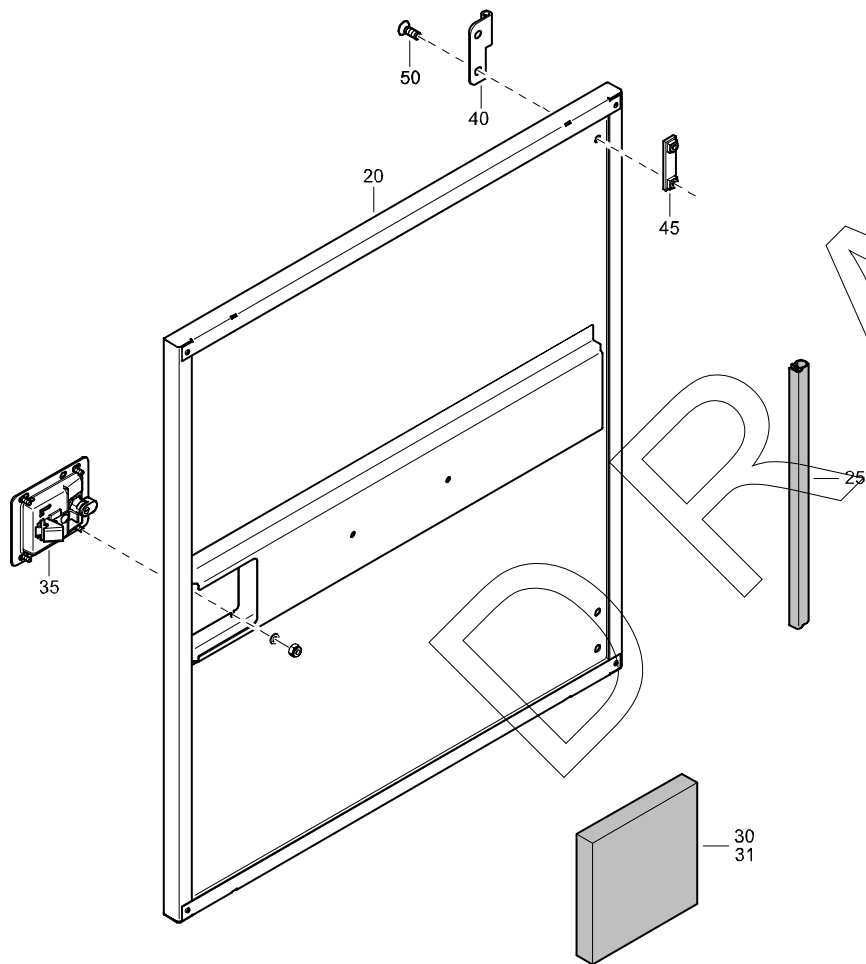


REF	PART NUMBER	DESIGNATION	QTY
-	1604 9910 80	BAFFLE AIR OUTLET (From page 38)	
•20	1604 9910 00	BAFFLE	1
•25	-	SILENCING FOAM (30 mm)	2
-	1079 0003 32	SILENCING FOAM 2000 mm x 1500 mm x 30 mm	

DOOR - STANDARD

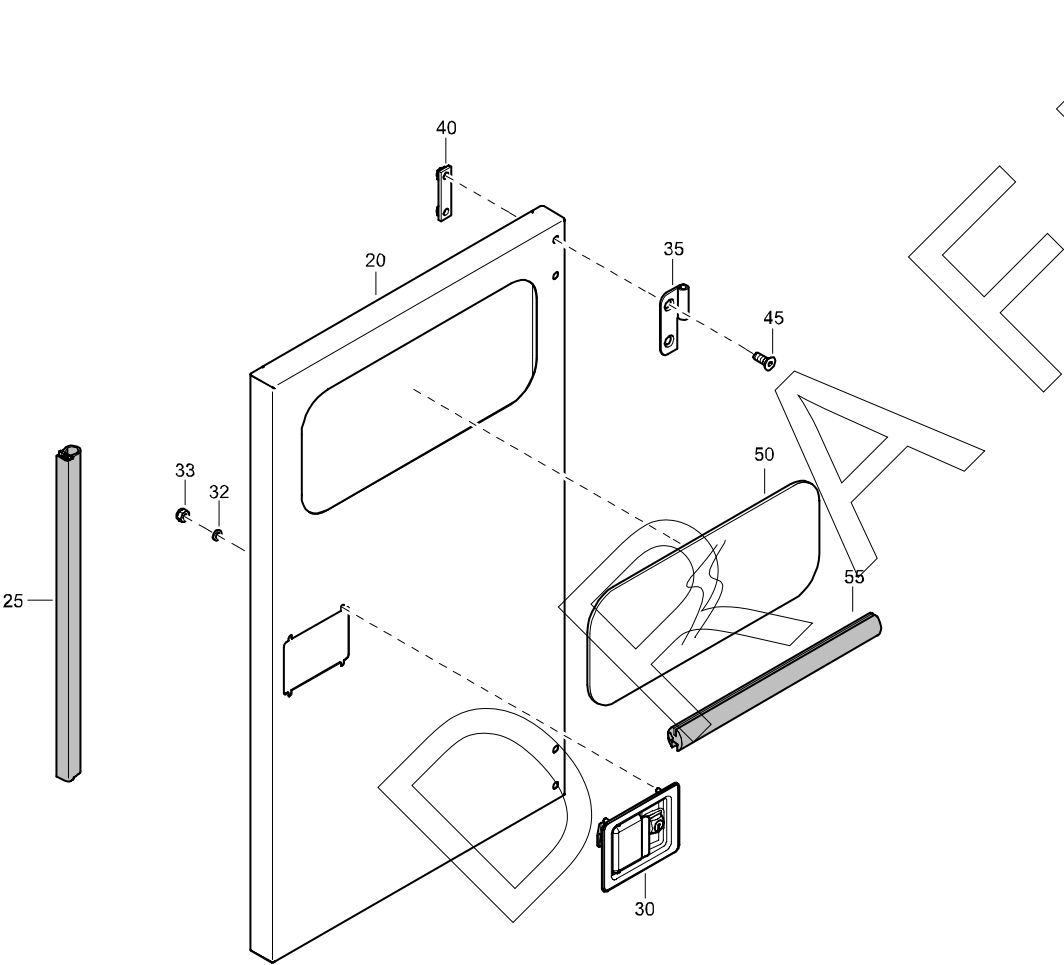


REF	PART NUMBER	DESIGNATION	QTY
-	1604 9911 80	DOOR SMALL (From page 38)	
•20	1604 9911 02	DOOR	1
•25	1604 4317 00	SEAL	AR
•30	-	INSULATION	2
		SILENCING FOAM (30 mm)	
•35	1615 6967 03	HANDLE	1
•36	0301 2321 00	PLAIN WASHER	4
•37	0291 1108 00	LOCKNUT	4
•40	1604 3429 00	HINGE	2
•45	1615 5684 00	BRACKET	2
•50	0216 1324 03	HEX SOCK. SCREW	4
-	1079 0003 32	SILENCING FOAM 2000 mm x 1500 mm x 30 mm	



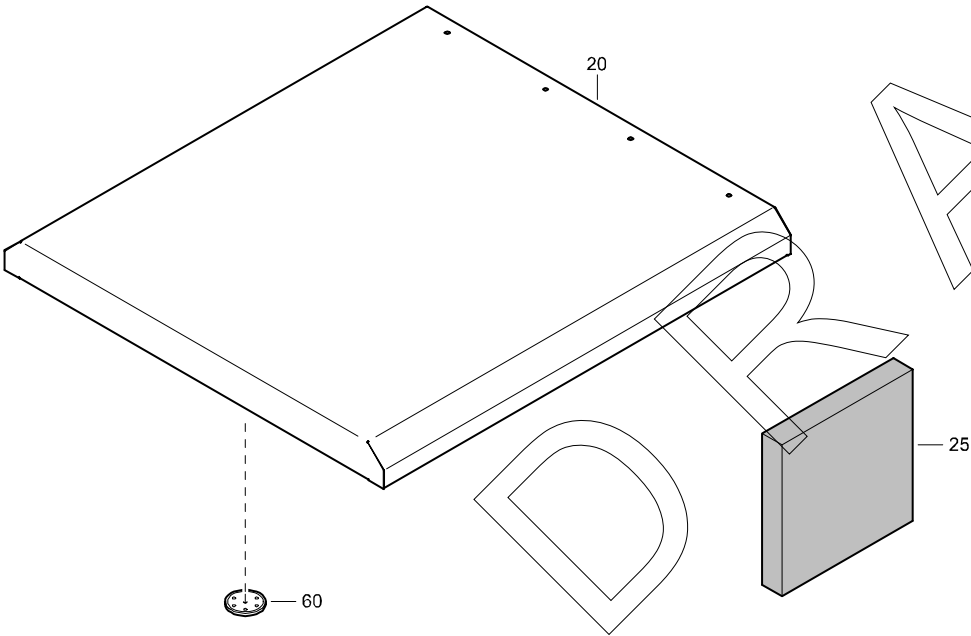
REF	PART NUMBER	DESIGNATION	QTY
-	1604 9912 90	DOOR BIG LH	(From page 38)
•20	1604 9912 01	DOOR	1
•25	1604 4317 00	SEAL	AR
•30	-	SILENCING FOAM (30 mm)	1
•31	-	SILENCING FOAM (30 mm)	1
•35	1615 6967 03	HANDLE	1
•40	1604 3429 00	HINGE	2
•45	1615 5684 00	BRACKET	2
•50	0216 1324 03	HEX SOCK. SCREW	4
-	1079 0003 32	SILENCING FOAM 2000 mm x 1500 mm x 30 mm	

DOOR CUBICLE - STANDARD



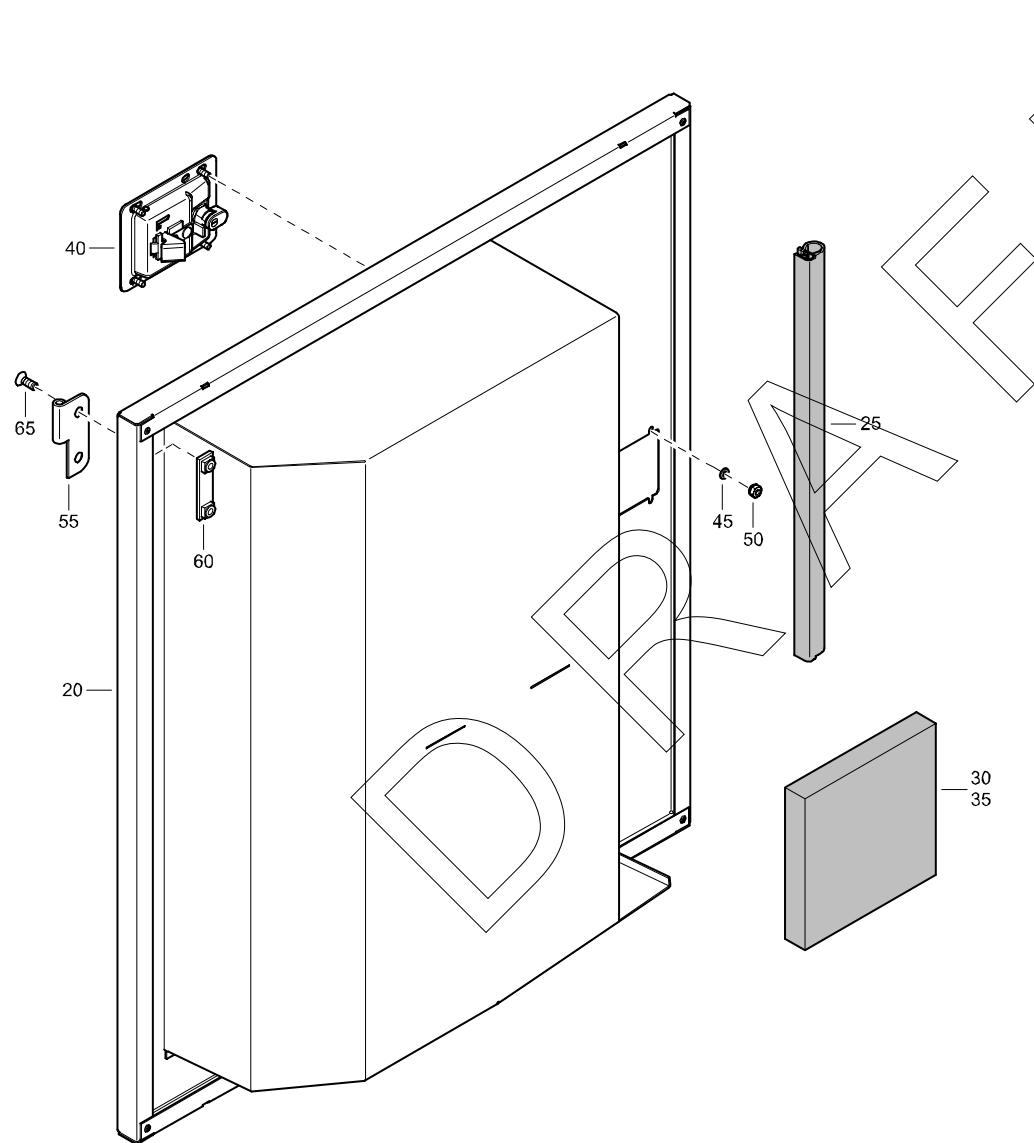
REF	PART NUMBER	DESIGNATION	QTY
-	1604 9913 80	DOOR CUBICLE	(From page 38)
•20	1604 9913 01	DOOR	1
•25	1604 4317 00	SEAL	AR
•30	1615 6967 03	HANDLE	1
•32	0301 2321 00	PLAIN WASHER	4
•33	0291 1108 00	LOCKNUT	4
•35	1604 3431 00	HINGE	2
•40	1615 5684 00	BRACKET	2
•45	0216 1324 03	HEX SOCK. SCREW	4
•50	1604 4922 00	WINDOW	1
•55	1604 4541 00	SEAL	AR

ROOF - ALTERNATOR - STANDARD



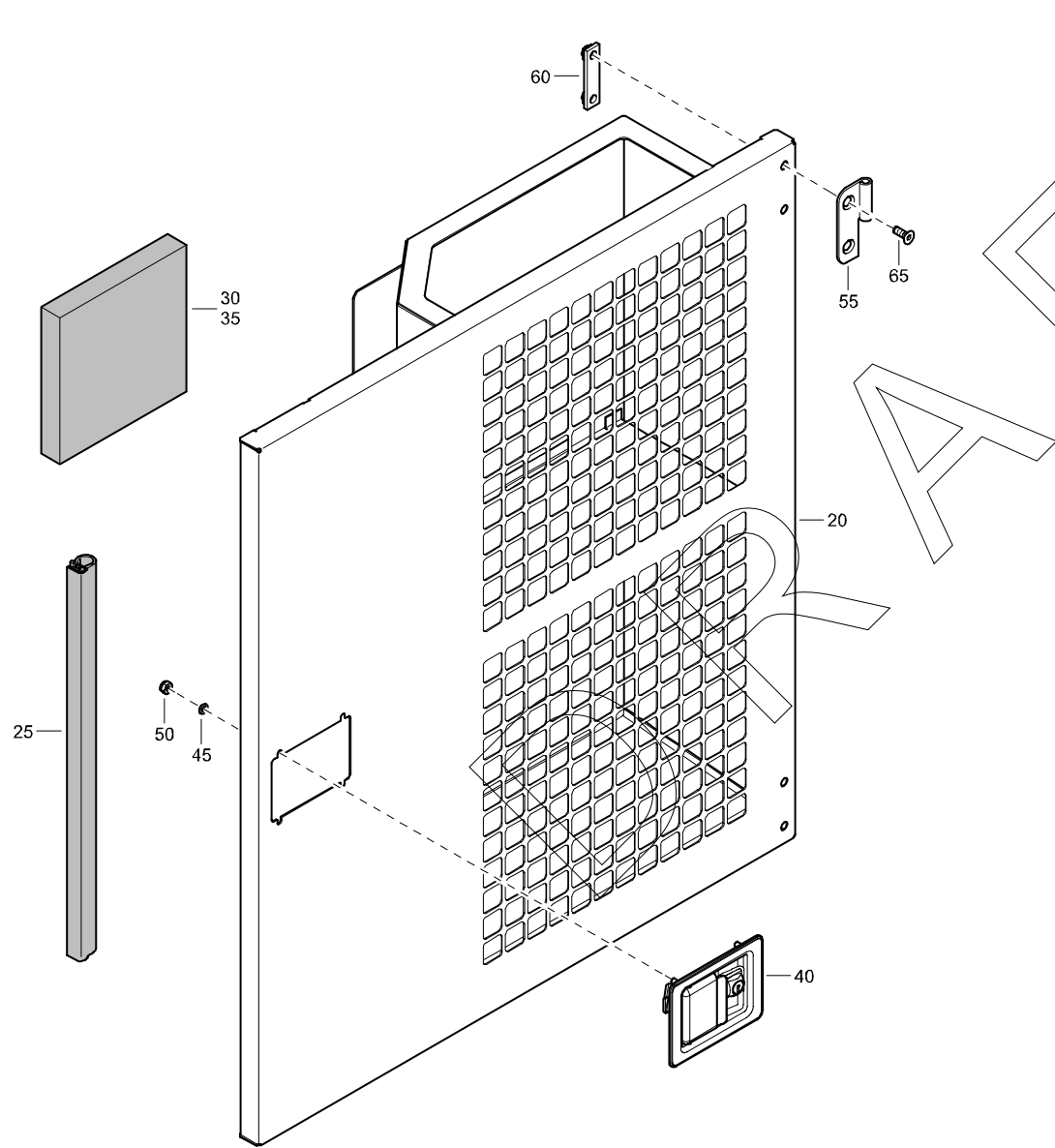
REF	PART NUMBER	DESIGNATION	QTY
-	1604 9915 80	ROOF ALTERNATOR (From page 38)	
•20	1604 9915 00	ROOF	1
•25	-	SILENCING FOAM (30 mm)	2
•60	1615 7884 00	CLIP	15
-	1079 0003 32	SILENCING FOAM 2000 mm x 1500 mm x 30 mm	

DOOR - STANDARD



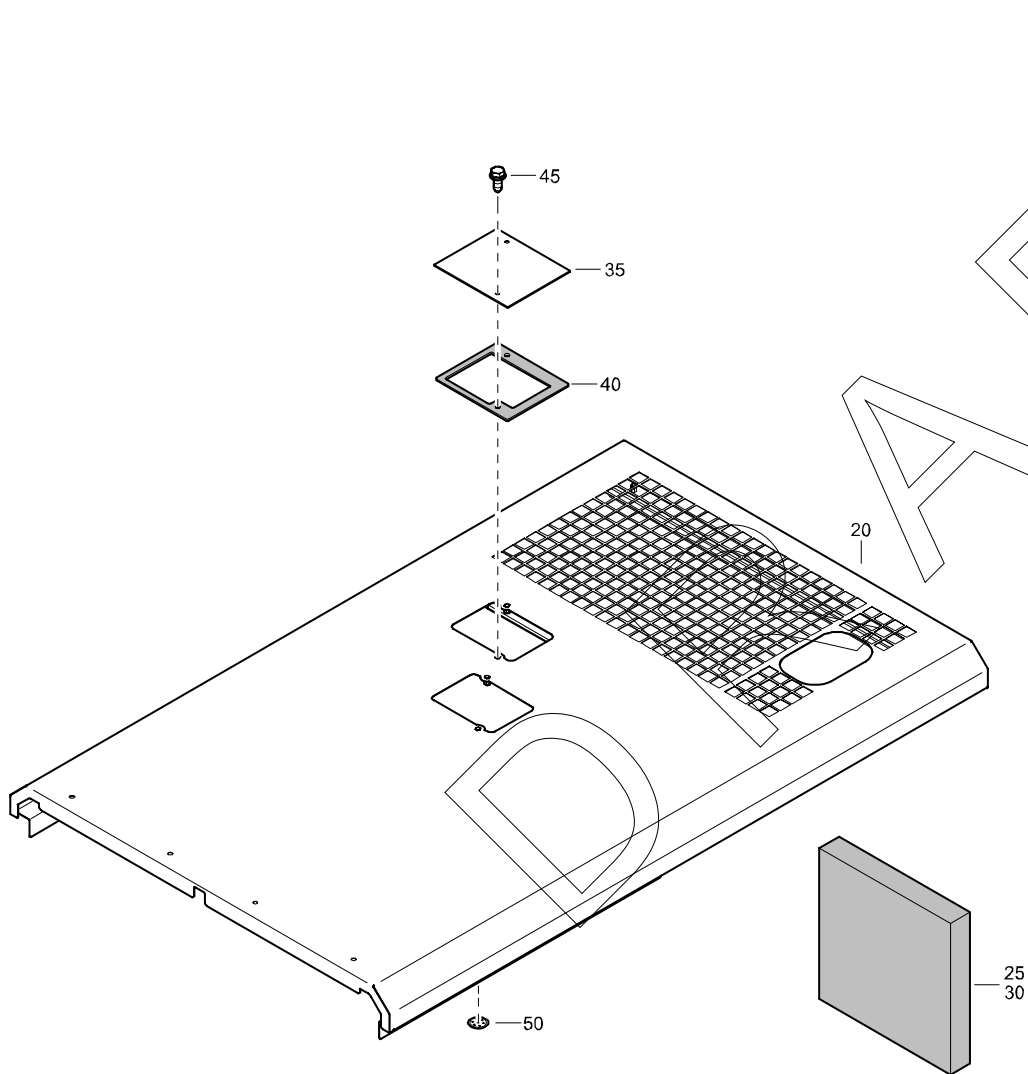
REF	PART NUMBER	DESIGNATION	QTY
-	1626 1753 80	DOOR	(From page 38)
•20	1626 1753 01	DOOR	1
•25	1604 4317 00	SEAL	AR
•30	-	INSULATION	2
		SILENCING FOAM (30 mm)	
•35	-	INSULATION	2
		SILENCING FOAM (30 mm)	
•40	1615 6967 03	HANDLE	1
•45	0301 2321 00	PLAIN WASHER	4
•50	0291 1108 00	LOCKNUT	4
•55	1604 3431 00	HINGE	2
•60	1615 5684 00	BRACKET	2
•65	0216 1324 03	HEX SOCK. SCREW	4
-	1079 0003 32	SILENCING FOAM 2000 mm x 1500 mm x 30 mm	

DOOR - STANDARD



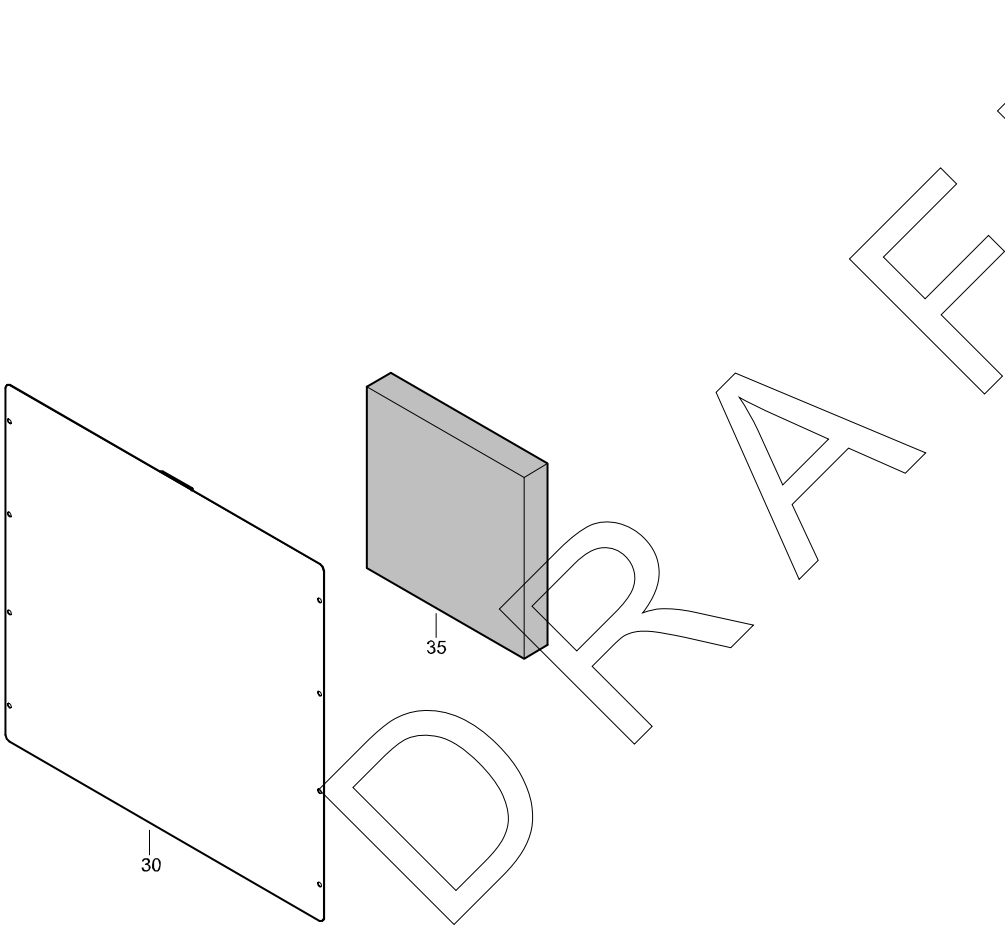
REF	PART NUMBER	DESIGNATION	QTY
-	1626 1756 80	DOOR BIG	(From page 38)
•20	1626 1756 01	DOOR	1
•25	1604 4317 00	SEAL	AR
•30	-	INSULATION	1
		SILENCING FOAM (30 mm)	
•35	-	INSULATION	2
		SILENCING FOAM (30 mm)	
•40	1615 6967 03	HANDLE	1
•45	0301 2321 00	PLAIN WASHER	4
•50	0291 1108 00	LOCKNUT	4
•55	1604 3431 00	HINGE	2
•60	1615 5684 00	BRACKET	2
•65	0216 1324 03	HEX SOCK. SCREW	4
-	1079 0003 32	SILENCING FOAM	
		2000 mm x 1500 mm x 30 mm	

ROOF - ENGINE - STANDARD



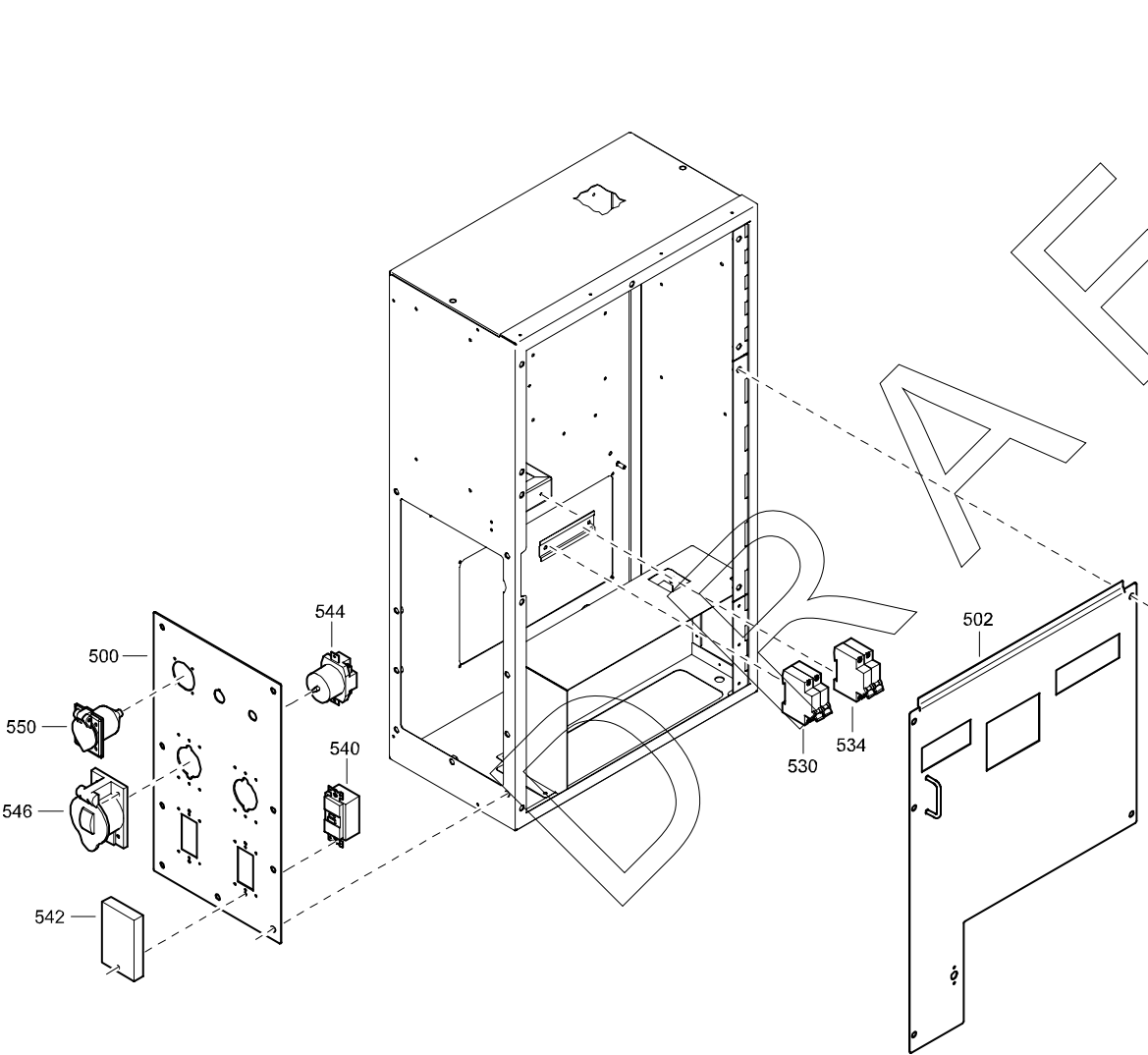
REF	PART NUMBER	DESIGNATION	QTY
-	1626 1786 80	ROOF ENGINE (From page 38)	
•20	1626 1786 02	ROOF	1
•25	-	SILENCING FOAM (30 mm)	1
•30	-	SILENCING FOAM (30 mm)	1
•35	1615 9058 01	COVER	2
•40	1626 2616 00	SEAL	2
•45	1619 2766 00	HEX. HEAD SCREW	2
•50	1615 7884 00	CLIP	16
-	1079 0003 32	SILENCING FOAM 2000 mm x 1500 mm x 30 mm	

PLATE ASSEMBLY - STANDARD



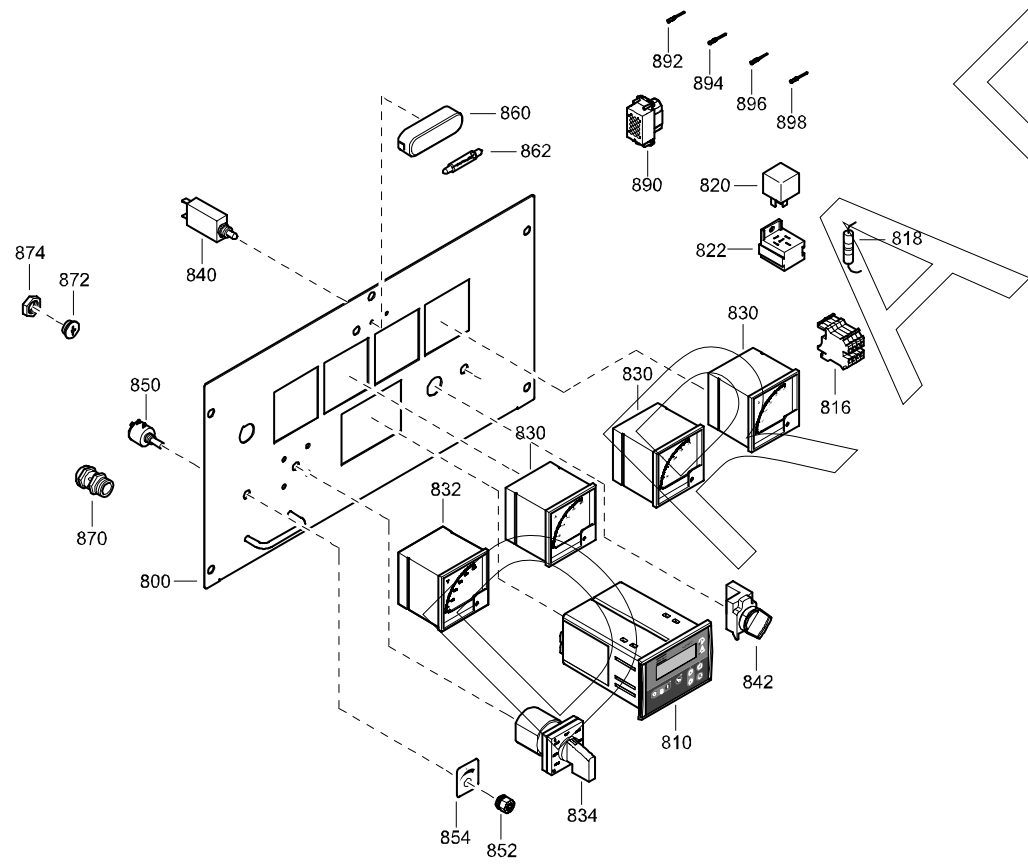
REF	PART NUMBER	DESIGNATION	QTY
-	1626 1797 80	PLATE ASSY	(From page 38)
•30	1626 1797 00	PLATE	1
•35	1626 1789 00	INSULATION	2
		SILENCING FOAM (30 mm)	
-	1079 0003 32	SILENCING FOAM	
		2000 mm x 1500 mm x 30 mm	

SOCKET PANEL ASSEMBLY - STANDARD



REF	PART NUMBER	DESIGNATION	QTY
-	1900 1034 72	ASSEMBLY SOCKET PANEL	
		(From page 46)	
•500	1626 0488 00	PLATE	1
•502	1626 0492 00	PANEL	1
•530	1089 9472 21	CIRCUIT BREAKER	2
•534	1089 9472 25	CIRCUIT BREAKER	2
•540	1089 9412 01	RECEPTACLE	2
•542	1089 9412 11	PROTECTION COVER	2
•544	1089 9412 02	RECEPTACLE	2
•546	1089 9412 12	PROTECTION COVER	2
•550	1089 9434 01	PLUG KIT	1

CONTROL PANEL - STANDARD



REF	PART NUMBER	DESIGNATION	QTY
-	1900 1034 85	CONTROL PANEL	(From page 46)
•800	1626 0501 00	PLATE	1
•810	1604 9418 00	CONTROLLER	1
•816	1089 0577 12	TERMINAL	4
•818	1089 0310 29	RESISTOR	1
•820	1089 0341 07	RELAY	2
•822	1089 0358 01	SOCKET	2
•830	1089 9381 18	AMPEREMETER	3
•832	1089 9383 01	VOLTMETER	1
•834	1089 9082 22	VOLTAGE SWITCH	1
•840	1089 9423 01	CIRCUIT BREAKER	1
•842	1089 0263 27	SELECTOR SWITCH	1
•850	1089 9371 21	POTMETER	1
•852	1089 9371 50	SPINDLE LOCK	1
•854	1079 9909 20	LABEL	1
•860	1089 9354 01	PANELLIGHT	1
•862	1619 1609 00	BULB	1
•870	0698 5140 71	CABLE GLAND	1
•872	0697 9810 58	PLUG	1
•874	0697 9809 20	LOCK NUT	1
•890	1088 0029 45	MALE INSERT	1
•892	1088 0029 57	MALE CONTACT	2
•894	1088 0029 61	MALE CONTACT	3
•896	1088 0029 56	MALE CONTACT	2
•898	1088 0029 55	MALE CONTACT	3

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