	Bezeichnung:		Nr.: A – DD01
	<b>Hinweise zur Nutzung von Arbeitsmitteln</b>		Ausgabe: 08-2023
			Seite: 01
Bereich: AB, WB, BO		Arbeitsmittel:	Kompressor
Freigabe (Unterschrift):		Tätigkeit:	Betreiben v. Masch.

Schritt 1	Für die Benutzung dieses Arbeitsmittels sind Voraussetzungen zu erfüllen:	
Bedienberechtigung:	Jugendliche, Auszubildende nur unter Aufsicht Ausbilder	
Arbeitsauftrag:		
Unterweisung: --> 2x pro Jahr	aktuell und speziell	
Ist eine der Voraussetzungen nicht erfüllt, dürfen Sie das <b>Arbeitsmittel nicht nutzen!</b>		

Schritt 2	Die Dokumentenzusammenstellung enthält wichtige Informationen zum sicheren und effektiven Betreiben des Arbeitsmittels, welches Sie nutzen wollen - Beachten Sie die nachfolgenden Punkte!		
Informieren und Überprüfen	Lesen Sie die <b>Betriebsanweisung</b> durch. Beachten Sie die speziellen Hinweise.	Siehe unten	
	Bei Gefahrstoffen: Informieren Sie sich über Gefahren! Lesen Sie das <b>Sicherheitsdatenblatt</b>	→ Sicherheitsdatenblatt	
	Überprüfen Sie, ob das Arbeitsmittel aktuell überprüft und somit für Sie sicher ist → <b>Prüfprotokolle</b> .	→ <a href="#">Protokoll ELT</a>	
		→ <a href="#">Protokoll Mech</a>	
	Nutzen Sie die kompakte Zusammenfassung der <b>Sicherheitsinformationen der BG</b> .	Siehe unten	
	Machen Sie sich mit der <b>Betriebsanleitung des Herstellers</b> vertraut.	Siehe unten	
	Ausbilder: BBSN - <b>Unterweisungshilfen</b> .	→ <a href="#">Unterweisung</a>	
	Ausbilder: <b>Checkliste</b> zur Gefährdungsbeurteilung		

Schritt 3	Mit der Nutzung des Arbeitsmittels bestätigt der Nutzer, alle o.g. Unterlagen gelesen und verstanden zu haben, sowie zu berücksichtigen.		
Mängel?	Stellen Sie bei der Überprüfung Mängel fest, ...	...nehmen Sie das Arbeitsmittel <b>nicht in Betrieb!</b>	Meldung an den Vorgesetzten (Ausbilder, Bereichsleitung)
	Sollten Sie nicht unterwiesen sein, ...		
	Stellen Sie beim Betreiben einen Mangel fest, ...	...setzen Sie das Arbeitsmittel <b>außer Betrieb!</b>	Tel.: 0351 – 20272 51

## 1. Anwendungsbereich

### Betreiben und Instandhalten von Kompressoren für Druckluft

## 2. Gefahren für Mensch und Umwelt



- Gefahr durch unbeabsichtigtes Lösen von Schlauchverbindungen unter Druckluft.
- Brandgefahr bei Verpuffung durch Stichflammen.
- Verbrennungsgefahr durch austretende Betriebsstoffe.
- Erstickenungsgefahr bei der Entnahme von Atemluft (unbemerkt Verdichterbrand, CO-Vergiftung).
- Gefahr durch Lärm, wenn Gerätehauben während des Betriebes nicht ordnungsgemäß geschlossen sind.

## 3. Schutzmassnahmen und Verhaltensregeln



- Betriebsanleitung des Herstellers beachten.
- Betrieb nicht ohne erforderliche Abdeckungen an Ventilatoren/Keilriemen.
- Brandgefahren mindern durch folgende Maßnahmen:
  - Ölstand regelmäßig vor Arbeitsbeginn kontrollieren.
  - Verdichteröl regelmäßig wechseln.
  - Vakuumanzeige an Luftsaugfilter kontrollieren.
- Verdichter niemals ohne Luftfilter betreiben, da durch Staubansaugung Überhitzungsgefahr besteht.
- Gelöste Kabelverbindungen vermeiden.
- Ölgetränkte oder abgelöste Dämmatten der Schallschutzisolierung ersetzen.
- Staubablagerung und Vergießen von Betriebsstoffen vermeiden.
- Kompressor regelmäßig reinigen.
- Auf ungehinderte Kühlluftansaugung achten, keine heiße Luft ansaugen.
- Ansaugung von Lösemitteldämpfen, Stäuben vermeiden.
- Bei der Aufstellung auf Standsicherheit achten. Schläuche und Schlauchverbindungen kontrollieren.
- Verdichter aufgrund der Lärmemission nicht mit geöffneten Hauben betreiben.
- Regelung regelmäßig kontrollieren: während Vollast Luftaustrittventile schließen, Maschine muss in Leerlaufbetrieb gehen.
- Bei Inbetriebnahme das Aufpumpen gegen geschlossenen Schieber vermeiden.

## 4. Verhalten bei Störungen

- Abschalten der Maschine und NOT-AUS -Taster betätigen.
- Stromunterbrechung durch Ausschalten des Hauptschalters.
- Baustellen sind während der Arbeiten abzusichern. Vorgesetzte informieren.

## 5. Erste Hilfe




- Bei Unfällen ist Erste Hilfe zu leisten (Blutungen stillen, verletzte Gliedmaßen ruhigstellen, Schockbekämpfung).
- Notruf 112 absetzen
- Ruhe bewahren und auf Rückfragen antworten.
- Unfall dokumentieren.

## 6. Instandhaltung

- Instandhaltungsarbeiten von sachkundigen, beauftragten Personen durchführen lassen
- Reparaturen nur von Sachkundigen durchführen lassen.
- Abmontierte Schutzeinrichtungen sind nach Instandsetzungsarbeiten vor Inbetriebnahme der Verdichter wieder fest anzubringen.



	Bezeichnung: <b>Prüfbescheinigung</b> <b>für die wiederkehrende Prüfung</b> nach BetrSichV Prüfung von Arbeitsmitteln und überwachungsbedürftigen Anlagen		Nr.: A – DD01 - P Ausgabe: 08-2023 Seite: 01
	Bereich: AB, WB, BO		Arbeitsmittel: <b>Flurförderzeug Propangastapler</b>
	Freigabe (Unterschrift):		Tätigkeit: Transport- und Verladearbeiten

Auftraggeber:		BBSN ÜAZ DD		Prüfende Stelle:		Befähigte Person	
						<i>Ewert, Frank</i>	
Bezeichnung:		DFG/TFG 16 - 50 A/B/C-K		Inventarnummer:		xxxx000	
Hersteller:		Jungheinrich		Herstellungsjahr:			
Seriennummer:				Erstprüfung:			
Prüfdatum:				Nächste Prüfung:			
Sichtprüfung				Funktionsprüfung			
Bauteil	OK	Mangel	Funktion	OK	Mangel		
Teil-Prüfung bestanden	Ja	Nein	Fkt.-Prüfung bestanden	Ja	Nein		
Elektrische Leitfähigkeit			Werte aus aktuellem DGUV 3- Prüfprotokoll übernommen!	Wert gem. Protokoll in Ordnung?			
Prüf Widerstand (in $\Omega$ Ohm):				Ja	Nein		
Grenzwert: (in $\Omega$ Ohm):							
Prüf ergebnis	Ja	Nein	Erklärung				
Prüfung bestanden			Prüfung wurde durchgeführt durch zur Prüfung befähigte Person nach Betriebssicherheitsverordnung.				
Prüf datum		Prüfer	.....				

Nachprüfung nach erfolgter Mängelbeseitigung			
Teil	ok	Datum	Unterschrift

## Arbeitsblatt: Gefährdungen und Schutzziele

<b>Betriebsstätte:</b>		<b>Verantwortliche Person:</b>									
<b>Betriebsbereich:</b>		<b>Stand:</b>	13.12.2023								
<b>Arbeitsplatz:</b>	Kompressor/Druckbehälter	<b>Blatt-Nr.</b>									
<b>Ermittelte Gefährdungen</b> (Beschreibung)	<b>Risiko <sup>2</sup></b> 	<b>Schutzmaßnahme</b>	<table border="1"> <tr> <th colspan="2">Handlungsbedarf</th> <th colspan="2">Wirksamkeit</th> </tr> <tr> <th>Wer</th> <th>Bis wann</th> <th>Wirksam ab</th> <th>Wer</th> </tr> </table>	Handlungsbedarf		Wirksamkeit		Wer	Bis wann	Wirksam ab	Wer
Handlungsbedarf		Wirksamkeit									
Wer	Bis wann	Wirksam ab	Wer								

Lärm		<input type="checkbox"/> Kompressor in einem separaten Raum aufstellen und/oder kapseln <input type="checkbox"/> .....				
Unkontrolliert bewegte Teile		<input type="checkbox"/> Erstmalige Prüfung durch zugelassene Überwachungsstelle (Inhalt*Maximaldruck p*V≥200) <input type="checkbox"/> Kompressor, Druckbehälter und Zuführleitungen regelmäßig prüfen <input type="checkbox"/> Wiederkehrende Prüfung durch zugelassene Überwachungsstelle (Inhalt*Maximaldruck p*V≥1000) durchführen <input type="checkbox"/> .....				
.....		<input type="checkbox"/> .....				

Mitgeltende Unterlagen: ☐ Betriebsanweisung ☐ Bedienungsanleitung Wo befinden sich diese: .....

<sup>2</sup> Beurteilen Sie das Risiko mit den Schutzmaßnahmen, die zum Zeitpunkt der Beurteilung wirksam sind. Einstufung gem. [Gefährdungsmatrix](#) in „klein“ „Symbol Smiley grün“ (Stufe 1), „mittel“ „Symbol Smiley gelb“ (Stufe 2) und „groß“ „Symbol Smiley rot“ (Stufe 3/ Stufe 4) 13.12.2023

**Instruction Manual  
for Portable Compressors**

**XA(S)90 DdG**

**400/230V - 50 Hz**

PAGE

Instruction manual for portable compressors.....3

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ATLAS COPCO – PORTABLE AIR DIVISION  
B-2630 AARTSELAAR BELGIUM



*Congratulations on the purchase of your XA(S)90 DdG compressor. It is a solid, safe and reliable machine, built according to the latest technology. Follow the instructions in this booklet and we guarantee you years of troublefree operation. Please read the following instructions carefully before starting to use your machine.*

*Always keep the manual available near the machine.*

*In all correspondence always mention the compressor type and serial number, shown on the data plate.*

*The company reserves the right to make changes without prior notice.*

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## SAFETY PRECAUTIONS FOR PORTABLE COMPRESSORS WITH GENERATOR

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

### 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.

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

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

**This brochure applies to machinery processing or consuming air or inert gas. Processing of any other gas requires additional safety precautions typical to the application and are not included herein.**

**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 brochure or the instruction book(s), is disclaimed by Atlas Copco.**

**If any statement does not comply with local legislation, the stricter of the two shall be applied. Statements in this brochure should not be interpreted as suggestions, recommendations or inducements that it should be used in violation of any applicable laws or regulations.**

### 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 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.
- 3 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, including the entire compression or vacuum system with pipes, valves, connectors, hoses, etc., as well as the consuming devices, are in good repair, free of abnormal wear or abuse, and are not tampered with.
- 4 Maintenance, overhaul and repair work shall only be carried out by adequately trained personnel; if required, under supervision of someone qualified for the job.
- 5 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 the oil vapour when air is admitted.
- 6 Maintenance work, other than routine attention, shall only be undertaken when the machine is standing still.
- 7 Before dismantling any pressurized component, the compressor or the equipment shall be effectively isolated from all sources of pressure and be completely vented to atmosphere. In addition, a warning sign bearing a legend such as „work in progress; do not open“ shall be attached to each of the isolating valves.
- 8 Before a machine is being repaired, 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.
- 9 Normal ratings (pressures, temperatures, speeds, etc.) shall be durably marked.
- 10 Never operate a machine or equipment beyond its rated limits (pressure, temperature, speed, etc.).
- 11 Maintenance and repair work should be recorded in an operator's logbook for all machinery. Frequency and nature of repairs can reveal unsafe conditions.
- 12 The machinery and pneumatic equipment shall be kept clean, i.e. as free as possible from oil, dust or other deposits.
- 13 To prevent an increase in working temperature, inspect and clean heat transfer surfaces (cooler fins, intercoolers, water jackets, etc.) regularly. For every machine establish a suitable time interval for cleaning operations.
- 14 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.
- 15 Care shall be taken to avoid damage to safety valves and other pressure-relief devices, especially to avoid plugging by paint, oil coke or dirt accumulation, which could interfere with the functioning of the device.
- 16 Pressure and temperature gauges shall be checked regularly with regard to their accuracy. They shall be replaced whenever outside acceptable tolerances.
- 17 Parts shall only be replaced by genuine Atlas Copco replacement parts.
- 18 Safety devices shall be tested as described in the maintenance schedule of the instruction book(s) to determine that they are in good operating condition.
- 19 Never use flammable solvents or carbon tetrachloride for cleaning parts. Take safety precautions against toxic vapours when cleaning parts in or with cleaning products.
- 20 Observe scrupulous cleanliness during maintenance and repair. Keep away dirt by covering the parts and exposed openings with clean cloth, paper or tape.
- 21 Protect the motor, alternator, air intake filter, electrical and regulating components, etc. to prevent moisture ingress, e.g. when steam-cleaning.
- 22 When performing any operation involving heat, flames or sparks on a machine, the surrounding components shall first be screened with non-flammable material.
- 23 Never use a light source with open flame for inspecting the interior of a machine, pressure vessel, etc.
- 24 On portable units, support the drawbar and axle(s) securely if working underneath the units or when removing a wheel. Do not rely on jacks.
- 25 Prior to stripping a compressor, engine or other machine or undertaking major overhaul on it, prevent all movable parts with a mass exceeding 15 kg (30 lbs) from rolling over or moving.
- 26 When repair has been completed, make sure that no tools, loose parts or rags are left in, or on, the machine, the prime mover or the driving gear. 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.

## SAFETY DURING USE AND OPERATION

To lift a unit, all loose or pivoting parts, e.g. doors and drawbar, 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 rules.

Helicopterlifting using the lifting eye is forbidden.

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:
  - ascertain that the pressure vessel(s) is (are) depressurized,
  - check the drawbar, the brake system and the towing eye. Also check the coupling of the towing vehicle,
  - check that the pivot 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 to the towing vehicle,
  - remove wheel chocks, if applied, and disengage the parking brake.
- 2 If the unit is to be backed up by the towing vehicle, disengage the overrun brake mechanism.
- 3 Never exceed the maximum towing speed of the unit.
- 4 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. If the unit has no parking brake the support of the towbar partly acts as a brake; it is recommended to immobilize the unit by placing chocks before or behind the wheels.  
  
When the towbar can be positioned vertically, the locking device must be applied and kept in good order.
- 5 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.
- 6 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 (min. 100 mm); do this in such a way that no extra back pressure is created for the engine. If necessary, install an extractor.
- 7 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.
- 8 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 re-circulated. 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.
- 9 No external force may be exerted on the air outlet valves, e.g. by pulling on hoses or by installing auxiliary equipment directly to a valve, e.g. a water separator, a lubricator, etc.
- 10 Distribution pipework and air hoses must be of correct size and suitable for the working pressure. Never use frayed, damaged or deteriorated hoses. Replace hoses and flexibles of which the lifetime expired. Use only the correct type and size of hose end fittings and connections.

A hose connected to a 2 inch (50 mm) valve must be provided with a safety wire (Ø 8 mm) fixed to the hose (each 500 mm) for effective pressures as from 10 bar (145 psi) up, although it is recommended to apply such safeguard already from 4 bar (60 psi) up. The safety wire ends have to be attached, one to the eye provided next to the compressor air outlet valve, the other one to a point near to the air inlet of the applied equipment.

Finally a wire mesh hose can be fixed over the hose ends to dampen the blast in case a connection starts leaking or should become undone.

Close the compressor air outlet valve before connecting or disconnecting a hose. Ascertain that a hose is fully depressurized before disconnecting it.

When blowing through a hose or air line, ensure that the open end is held securely. A free end will whip and may cause injury.

Never play with compressed air. Never apply it to your skin or direct an air stream at people. Never use it to clean dirt from your clothes. When using it to clean down equipment, do so with extreme caution and use eye protection.

Do not use compressed air from any type of compressor, without taking extra measures, for breathing purposes as this may result in injury or death. For breathing air quality, the compressed air must be adequately purified according to local legislation and standards.

Breathing air must always be supplied at stable, suitable pressure.

- 11 Never move a unit when external lines or hoses are connected to the outlet valves, to avoid damage to valves and/or manifold and hoses.
- 12 Never refill fuel while the unit is running. 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.
- 13 Never operate the unit in surroundings where there is a possibility of taking in flammable or toxic fumes.
- 14 Never operate the unit at pressures or speeds below or in excess of the limit ratings stated on the Principal Data sheet.
- 15 On water-cooled engines with closed cooling circuit: allow the unit to cool before removing a pressure cap.
- 16 All doors shall be shut during operation so as not to disturb the cooling air flow inside the body-work and/or render the silencing less effective. A door should be kept open for a short period only, e.g. for inspection or adjustment.
- 17 Wear ear protectors when environmental noise can reach or exceed 90 dB(A). Beware of long-time exposure to noise.
- 18 Periodically check that:
  - all safety equipment is in good working order,
  - all guards and air conducting baffles are in place and securely fastened,
  - all hoses and/or pipes inside the unit are in good condition, secure and not rubbing,
  - there are no fuel, oil or coolant leaks,
  - the tension of drive belts is correct,
  - all fasteners are tight,
  - all electrical leads are secure and in good order,
  - the engine exhaust system is in good condition,
  - air outlet valves and manifold, hoses, couplings, etc. are in good repair, free of wear or abuse,
  - the wheel nuts are tightened to the proper torque.

When more than one compressor is connected to a common header, be sure each compressor has a non-return valve (check valve) to prevent reverse rotation when stopping.

## SAFETY DURING MAINTENANCE AND REPAIR

Maintenance 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.
- 2 Use only genuine spare parts.
- 3 All maintenance work, other than routine attention, shall only be undertaken when the unit is stopped. Ensure that the unit cannot be started inadvertently.
- 4 Before removing any pressurized component, effectively isolate the compressor from all sources of pressure and relieve the entire system of pressure. Do not rely on non-return valves (check valves) to isolate pressure systems.
- 5 Never use flammable solvents or carbon tetrachloride for cleaning parts. Take safety precautions against toxic vapours of cleaning liquids.
- 6 Scrupulously observe cleanliness during maintenance and when performing repairs. Keep dirt away by covering the parts and exposed openings with a clean cloth, paper or tape.
- 7 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.

- 8 Support the drawbar and the axle(s) securely if working underneath the unit or when removing a wheel. Do not rely on jacks.
- 9 Make sure that no tools, loose parts or rags are left in or on the unit.
- 10 Before clearing the unit for use after maintenance or overhaul, check that operating pressures, temperatures and speeds are correct and that the control and shut-down devices function correctly.
- 11 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.
- 12 Protect the electrical and regulating components, the air filter, etc. to prevent moisture from entering them, e.g. when steam-cleaning.

## 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.

- 1 Use only spanners or sockets whose opening fits the fastener.
- 2 Apply an open-end spanner only in the plane of the fastener head, square to the thread axis. Never cock an open-end spanner.
- 3 Do not use a pipe or other improvised leverage extensions on handles.
- 4 Do not hammer on spanners or other tools which are not specially designed therefore.
- 5 Do not use adjustable spanners to tighten or slacken fasteners; they are intended to hold the other end of the fastener.
- 6 Always support the ratchet head when using socket extensions.
- 7 Discard any spanner with broken or battered points or edges.
- 8 Never use hand type sockets on power or impact tools.
- 9 Select only heavy-duty impact sockets for use with pneumatic or electric impact tools.
- 10 Replace sockets showing cracks or wear; keep sockets clean.
- 11 Never use screwdrivers for prying, punching, chiselling, scoring or scraping.
- 12 Use the correct type and size of screwdriver for the job. The bit must match the fastener.
- 13 A screwdriver with rounded edges will slip; it needs to be redressed or discarded.
- 14 Never use a screwdriver or any other tool near a live wire or electrical component. Plastic covering of handles is for comfort and grip only. They are not intended to act as insulation if such is not clearly marked by the manufacturer.
- 15 Never strike a hammer against a hardened object; use a soft drift against the object and strike against the drift.
- 16 Strike the object with the full face of the hammer.
- 17 Never use a hammer with a loose head.
- 18 Discard a hammer with chipped or mushroomed face.
- 19 Never use a chisel or punch with a chipped or mushroomed striking face.
- 20 Always pull on a spanner or socket handle, if possible, and adjust your stance to prevent a fall if something lets go.
- 21 Wear approved eye protection when using percussion tools or when scraping, chipping, shaving or grinding.
- 22 Wear protective gloves when holding a chisel or punch.

## SPECIFIC SAFETY PRECAUTIONS

### Batteries

- 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.

### Ether fuel systems

Ether fuel systems are used for diesel cold starting.

- 1 This type of fuel is extremely flammable, toxic and poisonous. Avoid contact with eyes or skin and breathing the fumes. If accidentally swallowed, do not induce vomiting but call a physician immediately.
- 2 If fuel enters or fumes irritate the eyes, flush the latter with large quantities of clean water and call for medical aid.
- 3 Before operating ether cold starting aids, read the instructions and the container label.
- 4 Never operate ether cold starting aids while the engine is running as this can cause severe damage.
- 5 When maintenance, tests or repair has to be performed, do so in a well-ventilated area only, away from heat, open flame or sparks. Ascertain that the area is clearly marked out with signs prohibiting fire, open flame and smoking.
- 6 Wear eye protection when testing a system. Make sure that openings of a spray container, valve, tube or atomizer are pointed away from yourself and others while testing.
- 7 Do not store ether containers in temperatures above 70 °C (160 °F).
- 8 Do not incinerate, puncture or attempt to remove the centre core valve, side safety valve or any other part of an ether container.

### Pressure vessels

(according to directive 87/404/EEC annex II § 2)

Maintenance/installation requirements:

- 1 The vessel can be used as pressure vessel or as separator and is designed to hold compressed air for the following application:
  - pressure vessel for compressor,
  - medium AIR/OIL,
 and operates as detailed on the data plate of the vessel:
  - the maximum working pressure ps in bar,
  - the maximum working temperature Tmax in °C,
  - the minimum working temperature Tmin in °C,
  - the capacity of the vessel V in l.
- 2 The pressure vessel is only to be used for the applications as specified above and in accordance with the technical specifications. Safety reasons prohibit any other applications.
- 3 National legislation requirements with respect to re-inspection must be complied with.
- 4 No welding or heat treatment of any kind is permitted to those vessel walls which are exposed to pressure.
- 5 The vessel is provided and may only be used with the required safety equipment such as manometer, overpressure control devices, safety valve, etc.
- 6 Draining of condensate shall be performed regularly when vessel is in use.
- 7 Installation, design and connections should not be changed.
- 8 Bolts of cover and flanges may not be used for extra fixation.

### Safety valve

All adjustments or repairs are to be done by an authorized representative of the valve supplier.

Following checks must be carried out:

- 1 A check of the opening of the lifting gear, 1 or 2 times a year. This can be done by screwing the cap of the valve anti-clockwise.
- 2 A check of the set pressure once a year according to the local regulations, if required. This check may not be done with the compressor supplying the air pressure and must be carried out on a proper test bench.

## INJURY PREVENTION

- 1 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.
- 2 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.
- 3 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.                               |

- 4 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.
- 5 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.
- 6 If the working process produces fumes, dust or vibration hazards, etc., take the necessary steps to eliminate the risk of personnel injury.
- 7 Before lifting machines, all loose parts which could be liable to fall down shall be removed or secured; pivoting parts such as doors, drawbars, etc. shall be safely immobilized.
- 8 To lift heavy parts, a hoist of ample capacity, tested and approved according to local safety regulations, shall be used.
- 9 When lifting machinery or parts with one or more lifting eyes, only hooks or shackles meeting local safety regulations shall be applied. Never shall cables, chains or ropes be applied directly on or through lifting eyes. Never allow sharp bends in lifting cables, chains or ropes.
- 10 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.
- 11 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.
- 12 When heavy parts are being lifted with a hoist, it is strictly forbidden to dwell or pass under the load or in the space which is liable to be hit if the load or part of it should topple over or come loose. Never leave a load hanging on a hoist. Lifting acceleration and retardation shall be kept within safe limits.
- 13 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.
- 14 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.
- 15 Before blowing compressed air or inert gas through a hose, ensure that the open end is held securely, so that it cannot whip and cause injury.

- 16 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.
- 17 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.
- 18 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.
- 19 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.
- 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.

## SAFETY PRECAUTIONS FOR GENERATORS DdG

In addition to normal safety rules which must be observed with generators, the following safety precautions listed hereafter are stressed.

### Installation precautions

- 1 The electrical connections shall correspond to the local codes. The machines shall be earthed and protected against short circuits by fuses or circuit breakers.
- 2 Damaged cables and insufficient tightening of connections may cause electric shocks. Replace damaged cables and make sure that all electric connections are securely tightened.

### Operation precautions

- 1 Never operate the generator in excess of its limits as indicated in the technical specifications and avoid long no-load sequences.
- 2 Never operate the generator in a humid atmosphere. Excessive moisture causes worsening of the generator insulation.
- 3 Never touch the power terminals during operation of the machine.
- 4 Periodically check that:
  - All guards are in place and securely fastened.
  - All hoses, cables and/or pipes inside the generator are in good condition, secure and not rubbing.
  - There are no leaks.
  - All fasteners are tight.
  - All electrical wirings are secure and in good order.
- 5 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 re-starting.
- 6 Earth the generator as well as the load properly.
- 7 Check the electrical cables regularly. 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 re-starting.
- 8 Avoid overloading the generator. The generator is provided with circuit breakers for overload protection. When a breaker has tripped, reduce the concerned load before re-starting.
- 9 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.
- 10 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.
- 11 Never connect the generator outlets to an installation which is also connected to a public mains.
- 12 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.

### Maintenance precautions

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 shut-down devices function correctly.

## 2. LEADING PARTICULARS

### 2.1 DESCRIPTION OF SAFETY PICTOGRAMS USED IN THIS MANUAL



**This symbol draws your attention to dangerous situations. The operation concerned may endanger persons and cause injuries.**



**This symbol is followed by supplementary information.**

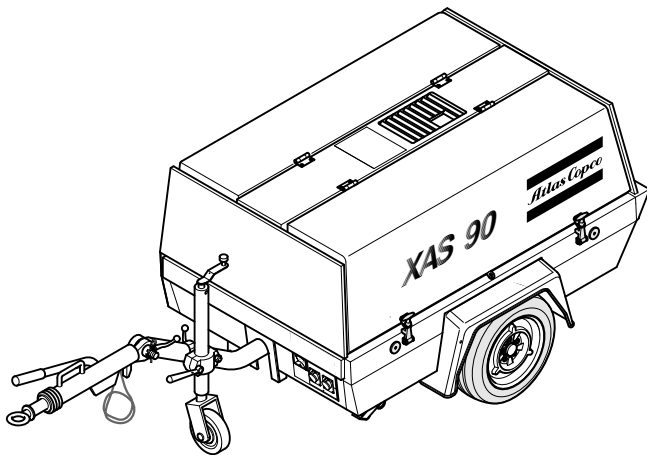


Fig. 2.1 General view of XA(S)90 DdG  
(adjustable towbar with brakes is option)

### 2.2 GENERAL DESCRIPTION

The XA(S)90 DdG is an XA(S)90 Dd compressor with a built-in 9/5.5 kVA; 400/230V-50 Hz generator. The compressor may be loaded separately or simultaneously with the generator. When operating simultaneously, the maximum effective working pressure must not exceed 6 bar.

#### – Engine

The compressor is driven by an air/oil-cooled KHD diesel engine.

#### – Compressor

The compressor casing houses two screw-type rotors, mounted on ball and roller bearings. The female rotor, driven by the engine, drives the male rotor. The male rotor has four lobes and the female rotor has six flutes. Thus, the male rotor revolves at 1 1/2 times the speed of the female rotor. The element delivers pulsation-free air.

Injected oil is used for sealing, cooling and lubricating purposes.

#### – Compressor oil system

The oil is boosted by air pressure.  
The system has no oil pump.

The oil is removed from the air, in the air/oil vessel first by centrifugal force, second through the oil separator element.

The vessel is provided with an oil level indicator.

#### – Regulation

The compressor is provided with a continuous regulating system and a blow-down valve. The valve is closed during operation by outlet pressure of the compressor element and opens by air receiver pressure when the compressor is stopped.

When the air consumption increases, the air receiver pressure will decrease and vice versa.

This receiver pressure variation is sensed by the regulating valve which, by means of control air to the unloader and engine speed regulator, matches the air output to the air consumption. The air receiver pressure is maintained between the pre-selected working pressure and the corresponding unloading pressure.

#### – Cooling system

The compressor is provided with an oil cooler.  
The cooling air is generated by a fan, driven by the compressor element.

#### – Safety devices

A thermal shut-down switch protects the compressor against overheating. The air receiver is provided with a safety valve.

The engine is equipped with a low oil pressure shut-down switch.

#### – Frame and axle

The compressor/engine unit is supported by rubber buffers in the frame.

The standard XA(S)90 DdG has a non-adjustable towbar with a towing eye.

As an option the unit can be equipped with an adjustable towbar, an overrun and parking brake and a ball coupling type DIN, ITA, NATO or GB.

#### – Bodywork

The bodywork has openings at the shaped front and rear end for the intake and outlet of cooling air, hinged side doors for maintenance and service operations. The XAS90 DdG bodywork is internally lined with sound-absorbing material.

#### – Lifting eye

A lifting eye is accessible when a small door at the top of the unit is unlocked.

#### – Control panel

The control panel grouping the air pressure gauge, control switch etc., is placed behind a small transparent panel at the right hand/ rear end.




















#### – Data plate










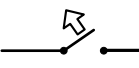






The compressor is furnished with a data plate showing the serial number, maximum final pressure and normal working pressure ( See chapter 9).

#### – Generator

The Atlas Copco portable compressor XA(S)90 DdG is equipped with a Geko asynchron generator. The generator is driven through a multi-V-belt by the engine's crankshaft. The outlet sockets are mounted on the front-left sheetmetal cover of the compressor. The switchboard is mounted internally.

## 2.3 MARKINGS AND INFORMATION LABELS

	Compressor outlet pressure.
	Dangerous exhaust.
	Danger, heat flat.
	Electrocution hazard.
	Atlas Copco compressor oil.
	Atlas Copco engine oil.
	Read manual.
	Read the instruction manual before working on the battery.
	Hours, time.
	Prohibition to open air valves without connected hoses.
	Compressor loaded.
	Runlamp.
	Airfilter.
	Compressor temperature too high.
	Rotation direction.
	Inlet.
	Outlet.
	Compressor oil drain.
	Read the instruction manual before starting.

	Service every 24 hours.
	Warning ! Part under pressure.
	Do not stand on outlet valves.
	Start-Stop indication of switch.
	Do not run the motor with open doors.
	Lifting permitted.
	Use diesel fuel only.
<b>3.7 bar / 54 psi</b>	Tyre pressure.
	Battery.
	Pushbutton.
	Circuit breaker.
	Engine preheat.
	Engine start switch.
	Oil pressure engine.
	Sound power level in accordance with Directive 84/533/EC (expressed in dB (A)).
	Horizontal towbar position required in case of coupling.
	Earthing connections.
<b>0 1</b>	Generator 0 = OFF 1 = ON

## 2.4 MAIN PARTS

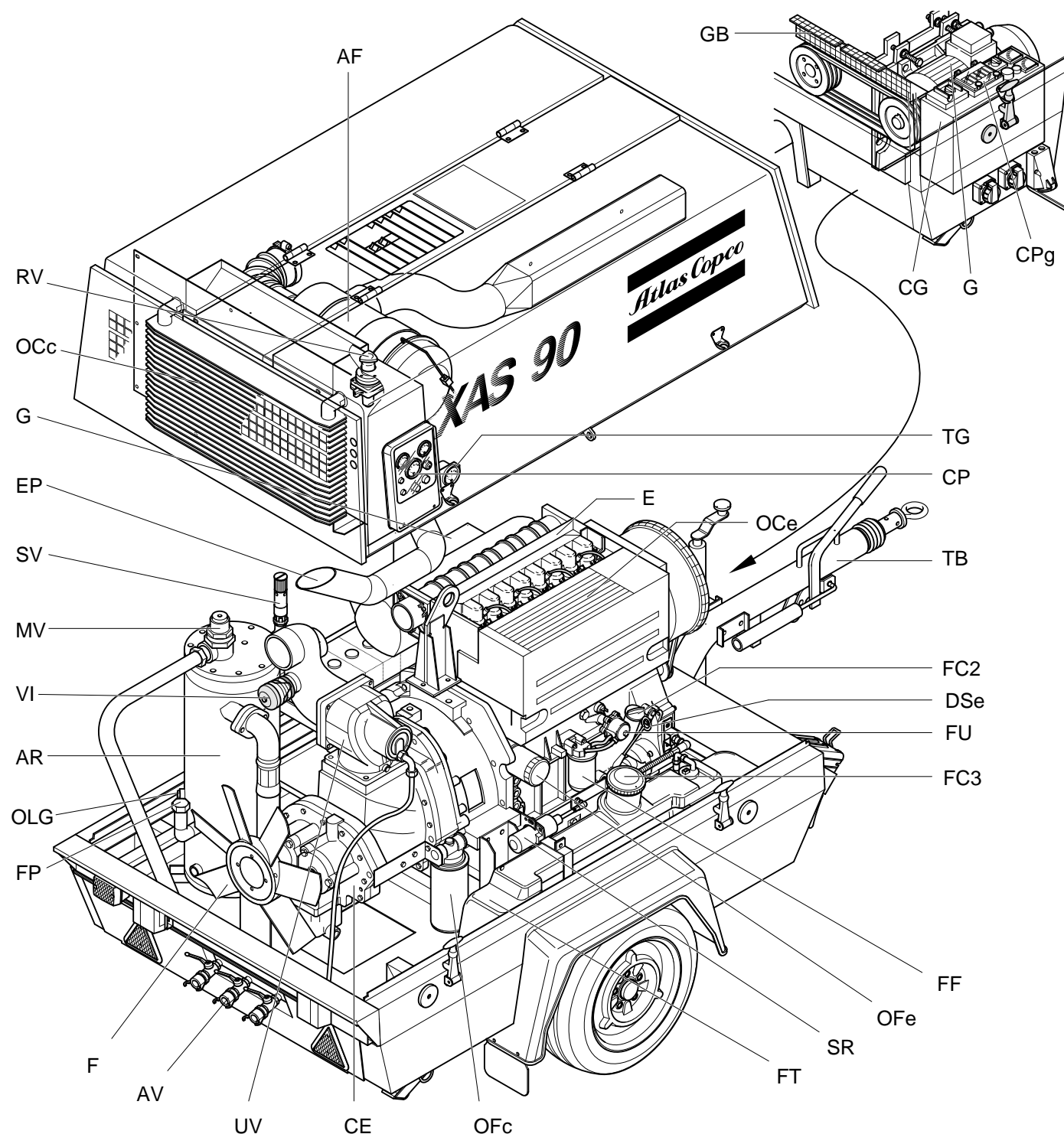


Fig.2.2 Main parts of XA(S)90 DdG (adjustable towbar, brakes and roadsignalisation are options)

AF	Air filter (for engine and compressor)	FC1	Filler cap, engine oil	OCc	Oil cooler compressor
AR	Air receiver	FC2	Filler cap, fuel tank	OFc	Oil filter, compressor
AV	Air outlet valves	FF	Fuel filter	OFe	Oil filter, engine
CE	Compressor element	FP	Filler plug, compressor oil	OLG	Oil level gauge
CG	Cubicle generator	FT	Fuel tank	RV	Regulating valve
CP	Control panel	FU	Fuel pump	SR	Speed regulator
CPg	Control panel generator	G	Generator	SV	Safety valve
DSe	Engine oil level dipstick	GB	Guard, belt drive	TB	Towbar
E	Engine	ML	Manual stop lever	TG	Air outlet temperature gauge
EP	Exhaust pipe	MV	Minimum pressure valve	UV	Unloader valve
F	Fan	OCe	Oil cooler engine	VI	Vacuum indicator



## SPEED REGULATING AND UNLOADING SYSTEM

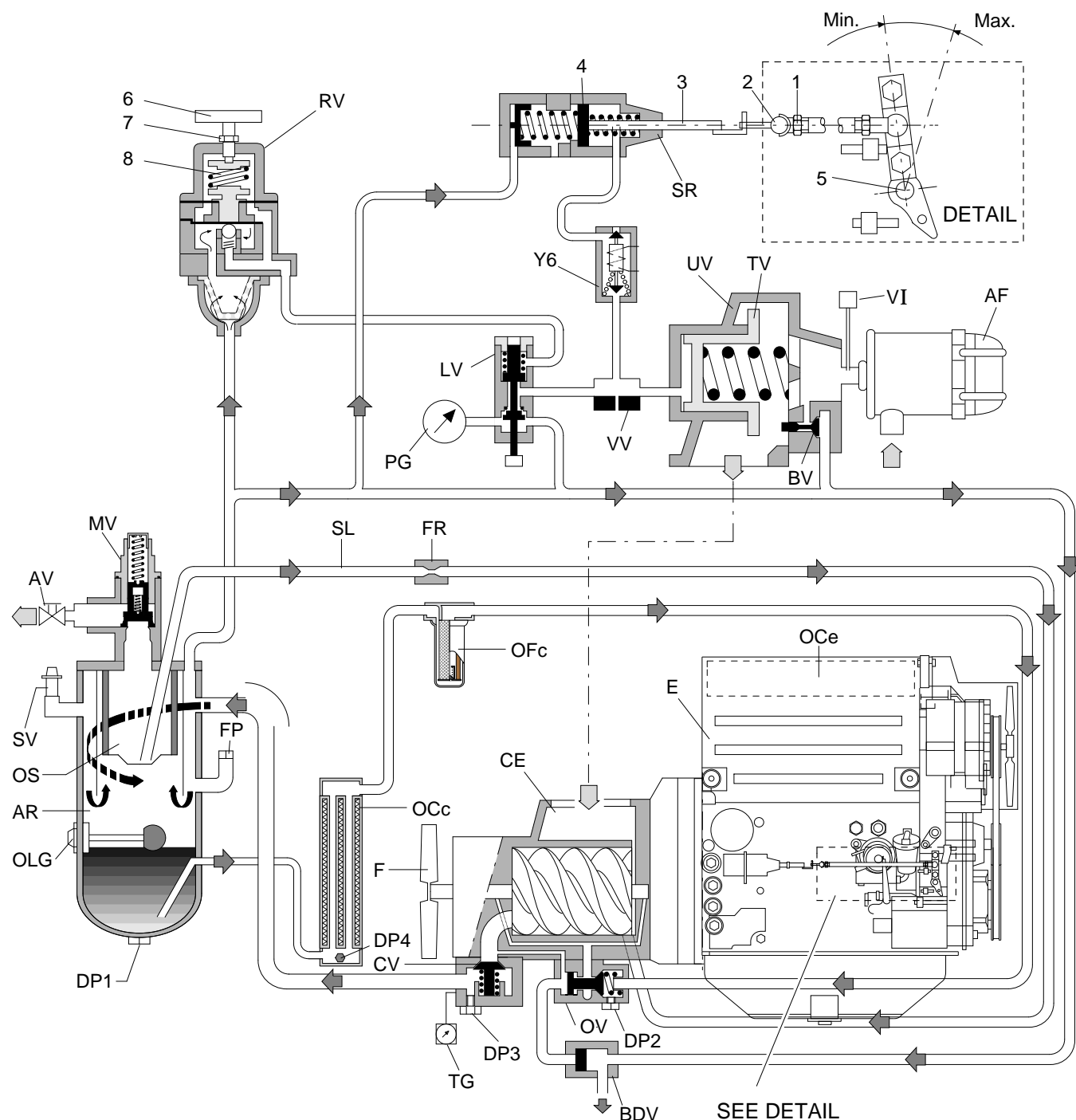


Fig. 2.3 Speed regulating and unloading system

AF	Air filter (for engine and compressor)	FR	Flow restrictor, oil scavenging line	TV	Throttle valve
AR	Air receiver	LV	Loading valve	UV	Unloader valve
AV	Air outlet valves	MV	Minimum pressure valve	VI	Vacuum indicator
BDV	Blow-down valve	OCc	Oil cooler compressor	VV	Venting valve
BV	Bleeder valve	OCe	Oil cooler engine	Y6	Solenoid valve for maximum speed of engine
CE	Compressor element	OFC	Oil filter, compressor	1.	Check nut, ball joint
CV	Check valve	OLG	Oil level gauge	2.	Ball-and-socket joint
DP1	Drain plug, oil tank	OS	Oil separator element	3.	Piston rod
DP2	Drain plug, oil stop valve	OV	Oil stop valve	4.	Piston
DP3	Drain plug, check valve	PG	Working pressure gauge	5.	Engine speed control lever
DP4	Drain plug, oil cooler	RV	Regulating valve	6.	Adjusting wheel, working pressure
E	Engine	SL	Scavenge line	7.	Check-nut, adjusting wheel
F	Fan	SR	Speed regulator	8.	Spring
FP	Filler plug, compressor oil	SV	Safety valve		
		TG	Air/oil temperature gauge		

## 2.5 AIR FLOW (SEE FIG. 2.3)

### The system comprises:

AF	Air filter
AR/OS	Air receiver/oil separator
CE	Compressor element
UV	Unloader valve
BDV	Blow-down valve

Air drawn through the airfilter (AF) into the compressor element is compressed. At the element outlet, compressed air and oil pass into the air receiver/oil separator (AR/OS).

The check valve prevents blow-back of compressed air when the compressor is stopped. In the air receiver/oil separator (AR/OS), most of the oil is removed from the air/oil mixture; the remaining oil is removed by the separator element.

The oil collects in the receiver and on the bottom of the separator element.

The air leaves the receiver via the minimum pressure valve (MV), which prevents the receiver pressure from dropping below the minimum working pressure (see section 8), even when the air outlet valves are open. This ensures adequate oil injection and prevents oil consumption. On units with an aftercooler, the compressed air is discharged through the outlet valve(s) via the aftercooler, where the air is cooled down to approx. 25 °C above the ambient temperature and water separator. When the unit is stopped, the non-return valve of the minimum pressure valve (MV) prevents blow-back and the blow-down valve (BDV) depressurises the air receiver (AR).

A temperature gauge (TG) and a working pressure gauge (PG) are comprised in the system.

## 2.6 OIL SYSTEM (SEE FIG. 2.3)

### The system comprises:

AR/OS	Air receiver/oil separator
OC	Oil cooler
OF	Oil filter

The lower part of the air receiver (AR) serves as oil tank.

Air pressure forces the oil from the air receiver/oil separator (AR/OS) through the oil cooler (OC) and oil filter (OF) to the compressor element (CE).

The compressor element has an oil gallery in the bottom of its casing. The oil for rotor lubrication, cooling and sealing is injected through holes in the gallery.

Lubrication of the bearings is ensured by oil injected into the bearing housings.

The injected oil, mixed with the compressed air, leaves the compressor element and re-enters the air receiver, where it is separated from the air as described in section 2.5. The oil that collects in the bottom of the oil separator element is returned to the system through scavenging line (SL), which is provided with a flow restrictor (FR).

The oil filter by-pass valve opens when the pressure drop over the filter is above normal because of a clogged filter. The oil then by-passes the filter without being filtered. For this reason, the oil filter must be replaced at regular intervals (see section 4.2).

## 2.7 SPEED REGULATING AND UNLOADING SYSTEM (SEE FIG. 2.3)

### The system comprises:

RV	Regulating valve
UV	Unloader valve
SR	Speed regulator

When the air consumption increases, the air receiver pressure will decrease and vice versa. This receiver pressure variation is sensed by the regulating valve which, by means of control air to the unloader valve (UV), matches the air output to the air consumption. The air receiver pressure is maintained between the pre-selected working pressure and the corresponding unloading pressure.

The air output is controlled from maximum output (100%) to no output (0%) by:

1. Speed control of the engine between maximum load speed and unloading speed (the output of a screw compressor is proportional to the rotating speed).
2. Air inlet throttling.

If the air consumption is equal to or exceeds the maximum air output, the engine speed is held at maximum load speed and the throttle valve (TV) is fully open.

If the air consumption is less than the maximum air output, the regulating valve (RV) supplies control air to speed regulator (SR) and unloader valve (UV) to reduce the air output and holds air receiver pressure between the normal working pressure and the corresponding unloading pressure of approx. 1.5 bar above the normal working pressure.

When the air consumption is resumed, the throttle valve (TV) gradually opens the air intake and the speed regulator (SR) increases the engine speed.

The construction of the regulating valve (RV) is such that any increase (decrease) of the air receiver pressure above the pre-set valve opening pressure results in a proportional increase (decrease) of the control pressure to the throttle valve (TV).

Part of the control air is vented to atmosphere, and any condensate discharged, through the venting valve (VV).

A solenoid valve (Y6) is installed in the control line to the speed regulator (SR) to maintain the engine speed control lever (5) in the maximum position when using the generator.

2.8 ELECTRICAL SYSTEM

2.8.1 CIRCUIT DIAGRAM COMPRESSOR

The compressor is equipped with a negative earthed system.

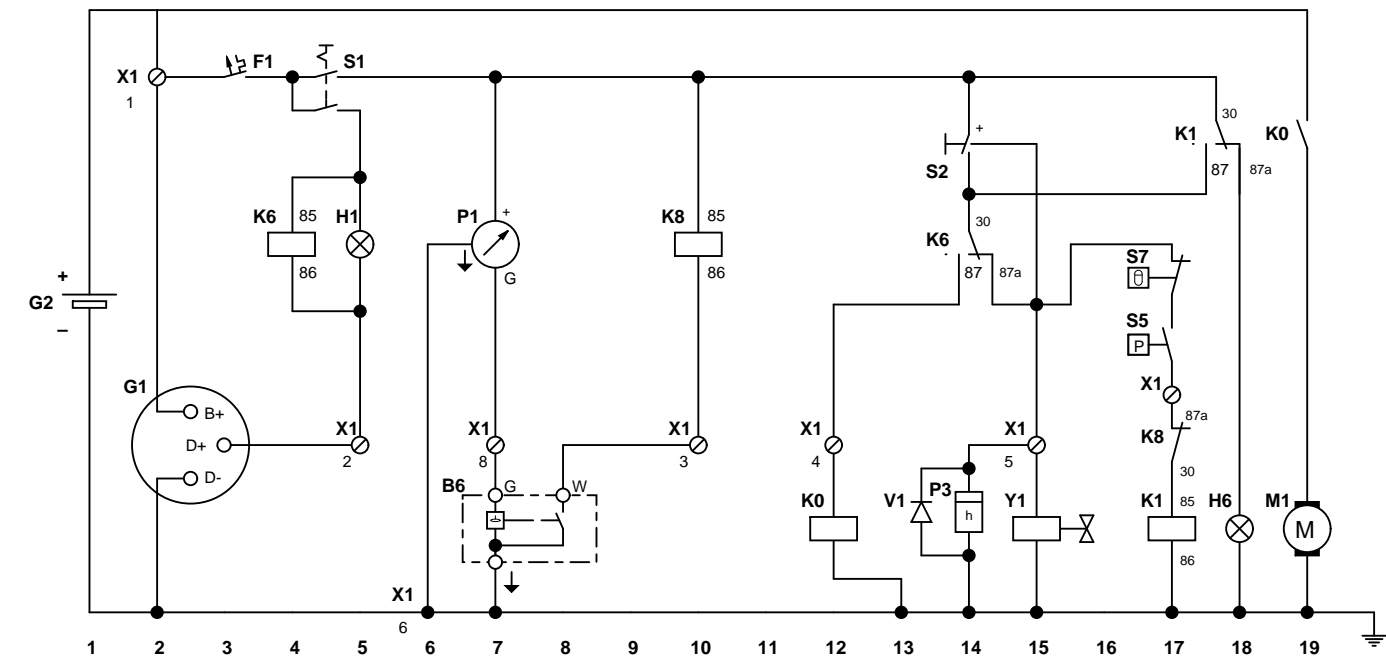


Fig. 2.4 Circuit diagram compressor(Nr. 9820 1412 02)

B6	Engine fuel level sensor/shut-down switch	M1	Starter motor
F1	Circuit breaker (10A)	P1	Fuel level gauge
G1	Alternator	P3	Hour meter
G2	Battery	S1	ON-OFF switch
H1	Alternator charging indicator lamp	S2	Override/start switch
H6	Alarm lamp, shut-down switches	S5	Engine oil pressure shut-down switch
K0	Starter solenoid	S7	Compressor temperature shut-down switch
K1	Shut-down relay, compressor temperature and engine oil pressure	V1	Diode
K6	Starter motor protection relay	X1	Plug
K8	Shut-down relay	Y1	Engine stop solenoid
		Y6	Solenoid valve speed regulator (generator action)

### 2.8.2 DESCRIPTION OF THE ELECTRIC CIRCUIT/COMPRESSOR

1. Closing ON/OFF switch (S1) supplies voltage to:
  - charging indicator lamp (H1), which lights up
  - fuel level gauge (P1)
  - relay (K6), which makes contact (30-87), closing the line between switch (S2) and starter solenoid (K0)
  - alarm lamp (H6), which lights up.
2. Depressing override/start switch (S2) supplies voltage to:
  - engine stop solenoid (Y1) and hour meter (P3), which respectively open the engine fuel supply and start counting
  - starter solenoid (K0) via relay (K6) contact (30-87). Solenoid (K0) engages the starter motor (M1), which cranks the engine.
3. When alternator (G1) starts charging, its built-in voltage regulator de-energises relay (K6) and extinguishes lamp (H1).

Relay (K6) makes contact (30-87a), opening the line to solenoid (K0), the contact of which opens and disengages starter motor (M1).
4. After the engine oil pressure has built up sufficiently, engine oil pressure switch (S5) closes its contact, energising relay (K1).

Relay (K1) makes contact (30-87). Lamp (H6) goes out.
5. Releasing override/start switch (S2) interrupts overriding of the shut-down circuit. Solenoid (Y1), hourmeter (P3) and relay (K1) remain energised over relay (K1) contact (30-87) and over relay (K6) contact (30-87a).

### Engine safety shut-down

1. If engine oil pressure shut-down switch (S5) or compressor temperature shut-down switch (S7) opens, relay (K1) will be de-energised, breaking contact (30-87) and making contact (30-87a).

The engine stop solenoid (Y1) is released, the engine stops and alarm lamp (H6) lights up.
2. The same happens in the event the fuel level shut-down switch (B6) closes, but in this case relay (K8) is energised and its contact (30-87a) breaks the circuit to relay (K1).
3. Circuit breaker (F1) will cut out if an overload occurs in the engine stop solenoid circuit or in case of short circuit. It can be reset after a short period of cooling off by pressing its push button.

2.8.3 CIRCUIT DIAGRAM GENERATOR

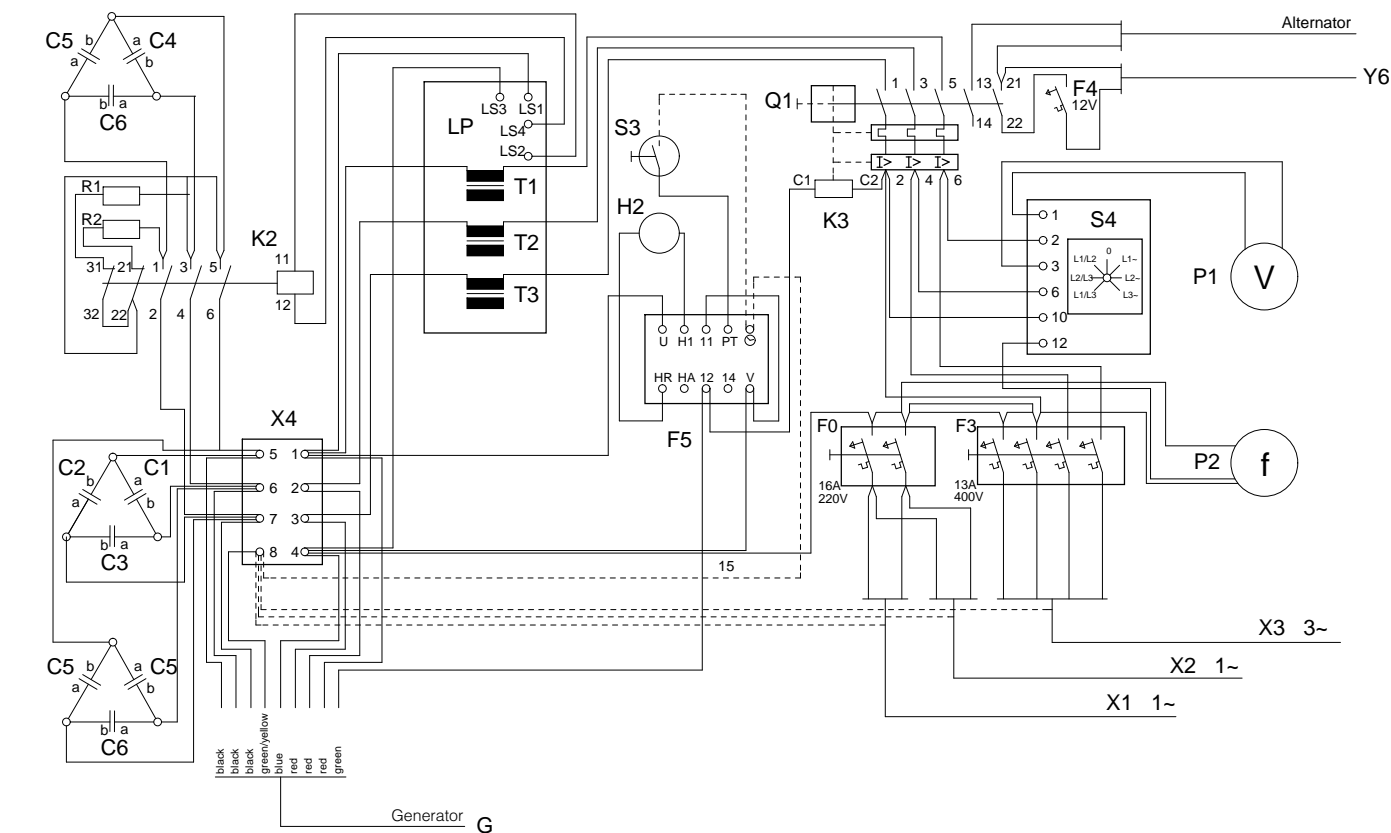


Fig. 2.5 Circuit diagram generator (Nr. 9822 0615 03)

C1-C6	Capacitor group (Residual stimulus)	P1	Voltmeter
C7-C9	Capacitor group (Starting amplifying)	P2	Frequencymeter
F0	Circuit breaker (1~)	Q1	Main switch
F3	Circuit breaker (3~)	R1, R2	Resistance
F4	Fuse	S3	Pushbutton ISO
F5	Isolation monitoring	S4	Selector switch
G	Generator	X1, X2	Outlet socket (230 V - 50 Hz)
H2	Lamp ISO failure (red)	X3	Outlet socket (400 V - 50 Hz)
K2	Contactor	X4	Terminal board (Cubicle)
K3	Circuit breaker operating current	Y6	Solenoid valve
LP	Circuit board starting amplification		

2.8.4 DESCRIPTION OF THE GENERATOR SYSTEM

For description of the generator system consult the generator operation manual.

### 3. OPERATING INSTRUCTIONS

#### 3.1 PARKING, TOWING AND LIFTING INSTRUCTIONS

##### Safety precautions



The operator is expected to apply all relevant safety precautions, including those mentioned on the inside of the cover of this book.

##### Attention:

- Before putting the compressor in to use, check the brake system as described in section 5.6.
- After the first 100 km travel:
  - Check and retighten the wheel nuts and towbar bolts to the specified torque. See section 8.1.
  - Check the brake adjustment. See section 5.6.

##### 3.1.1 PARKING INSTRUCTIONS

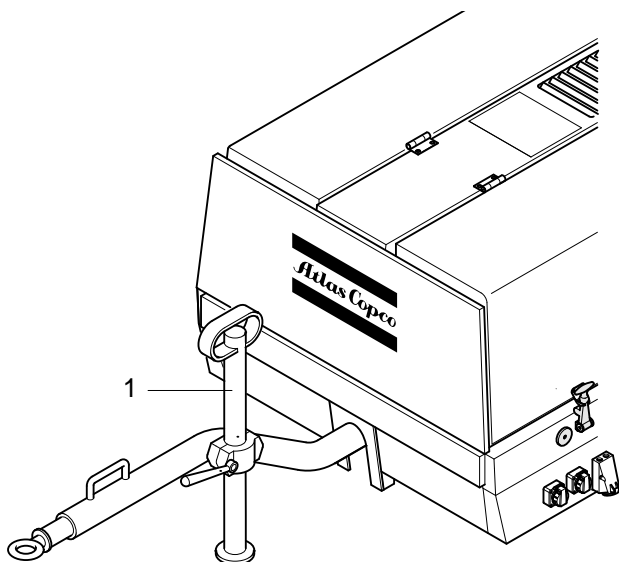


Fig. 3.1 Non-adjustable towbar without brakes

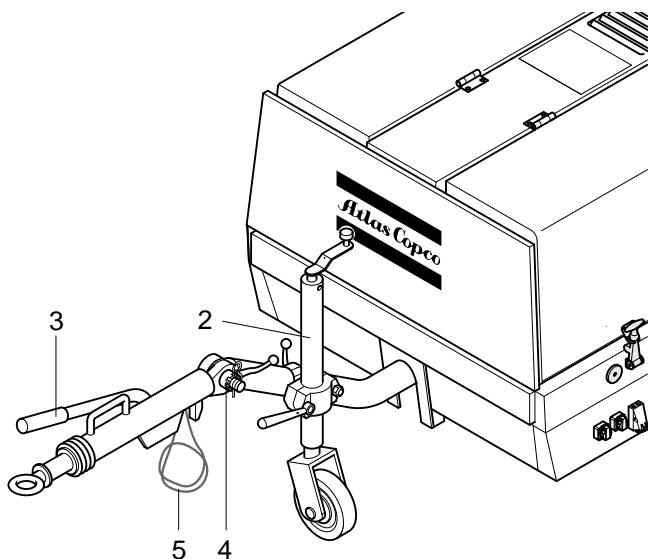


Fig. 3.2 Adjustable towbar with brakes

When parking a compressor, secure prop (1) or nose wheel (2) to support the compressor in a level position. Apply parking brake (3). Place the compressor as level as possible; however, it can be operated temporarily in an out-of-level position not exceeding 15°. If the compressor is parked on sloping ground, immobilize the compressor by placing wheel chocks in front of or behind the wheels. Locate the compressor upwind, away from contaminated wind-streams and walls. Avoid recirculation of exhaust air from the engine. This causes overheating and engine power decrease.

##### 3.1.2 TOWING INSTRUCTIONS

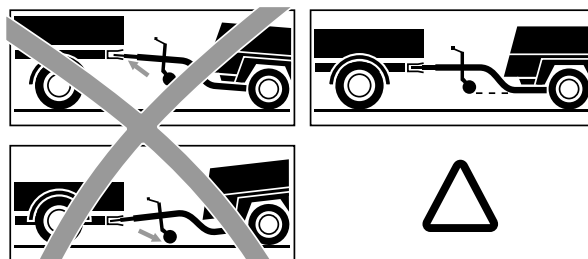


Fig. 3.3 Label on towbar, towing instructions



Before towing the compressor, make sure that the towing equipment of the vehicle matches the towing eye or ball connector.

For non-adjustable - and adjustable towbar the towbar should be as level as possible and the compressor and towing eye end in a level position. Turn the locking handles in such a way that there is no clearance between the teeth of the joints; this can be checked by trying to move the towbar up and down at the towing eye. Mount safety pins (4). Push hand brake lever (3) downwards and connect breakaway cable (5) to the vehicle. Secure nose wheel (2) or prop (1) in the highest position so that the nose wheel is prevented from turning.

### 3.1.3 LIFTING INSTRUCTIONS

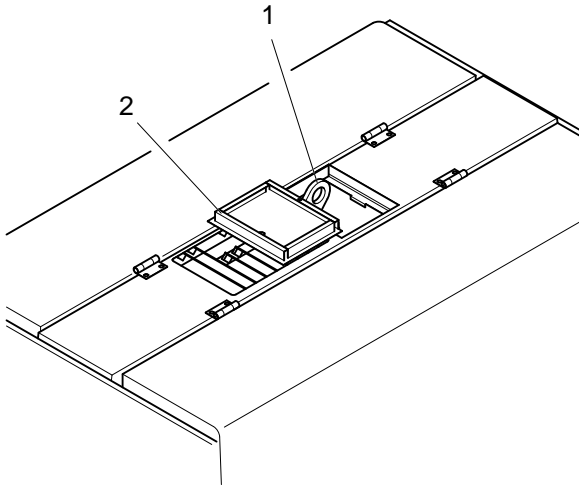


Fig. 3.4 Lifting eye

When lifting the compressor, the hoist has to be placed in such a way that the compressor, which must be placed level, will be lifted vertically.

Preferably use the lifting eye (1) after opening the small door (2).



**Lifting acceleration and retardation must be kept within safe limits (max. 2xg). Helicopter lifting is not allowed.**

### 3.2 BEFORE STARTING



**If the compressor is to be connected to a common compressed air system, fit an appropriate check valve between compressor outlet and air system.**

**Observe the right mounting position/direction !**

1. Before initial start-up or after a storage period of 3 months and longer, remove the flexible between air filter (AF- Fig. 2.3) and unloader valve (UV- Fig. 2.3) and pour 1 liter of oil into compressor element (CE- Fig. 2.3) via the unloader valve. See section 4.3 for the oil to be used. Reinstall the flexible.
2. Before initial start-up, prepare battery for operation if not already done. See section 4.7.
3. With the compressor standing level, check the level of the engine oil. Add oil, if necessary, to the upper mark on dipstick. Consult the Engine Operation Manual for the type and viscosity grade of the engine oil.
4. Check the level of the compressor oil. The pointer of oil level gauge (OLG- Fig. 2.3) should register in the green range. Add oil if necessary. See section 4.3 for the oil to be used.



**Before removing oil filler plug (FP- Fig. 2.3), ensure that the pressure is released by opening an air outlet valve.**

5. Check that the fuel tank contains sufficient fuel. Top up, if necessary. Consult the Engine Operation Manual for the type of fuel.
6. Drain any water and sediment from the fuel filter (FF) until clean fuel flows from the drain cock.
7. Empty the dust trap of the air filter (AF).
8. Check the air filter vacuum indicator (VI- Fig. 2.3). If the yellow piston reaches the red marked service range, service or replace the filter element. Reset the indicator by pushing the reset button.
9. Open an air outlet valve to allow air flow to the atmosphere.

### 3.3 STARTING/STOPPING

#### 3.3.1 GENERAL

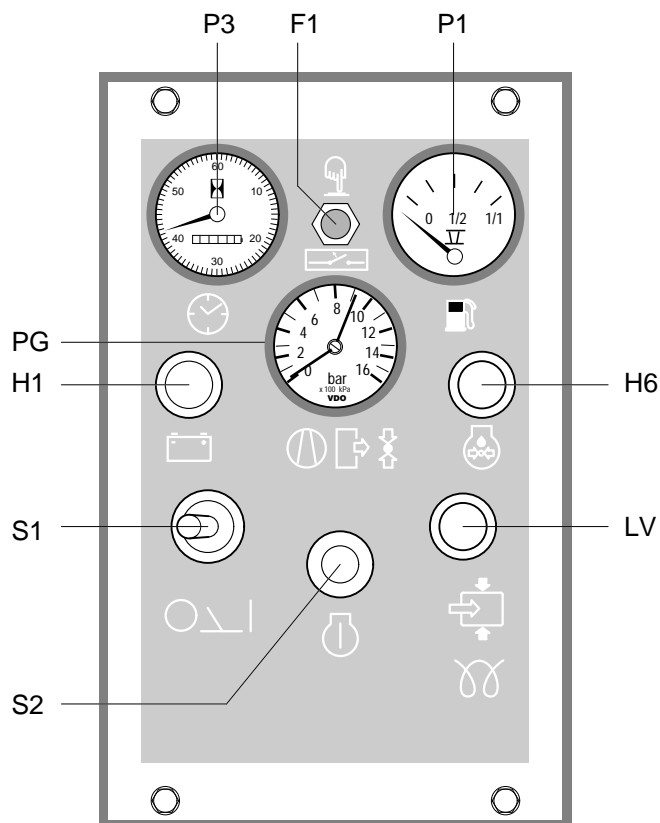


Fig. 3.5 Control panel general

F1	Circuit breaker
H1	Alternator charging indicator lamp
H6	Alarm lamp, shut-down switches
LV	Loading valve
P1	Fuel level gauge
P3	Hour meter
PG	Working pressure gauge
S1	ON-OFF switch
S2	Override/start switch

#### To start the unit:

- 1 Move ON/OFF switch (S1) to "I" and check that alternator charging indicator lamp (H1) and alarm lamp (H6) are alight.
- 2 Press and keep override/start switch (S2) depressed to override the shut-down circuit and to engage the starter motor.
- 3 Alternator charging indicator lamp (H1) and alarm lamp (H6) go out within approx. 10 seconds after starting, depending on the operating conditions. Release override/start switch (S2) as soon as both lamps (H1 and H6) are out.

If alarm lamp (H6) does not go out within 10 seconds from starting, stop the engine at once and inspect its lubricating system.

Wait a few minutes between each starting attempt.

If the engine fails to start three times, consult the Engine Operation Manual to localise the cause and remedy.

For starting in extremely cold conditions, consult the Engine Operation Manual.

- 4 Run the engine a few minutes at no-load to warm up. During this period, check the pressure on gauge (PG).
- 5 When the engine is running smoothly, press loading valve (LV) and release as soon as pressure starts building up.
- 6 When the unloading pressure shows on gauge (PG), the unloader has unloaded the compressor.
- 7 Open the air outlet valve(s) (AV).

#### To stop the unit:

- 1 Close the air outlet valve (s) (AV) and run the compressor unloaded for some minutes.
- 2 Move ON/OFF switch (S1) to "0".
- 3 Fill the fuel tank at the end of each day's operation. This prevents moisture from condensing on the inside of the tank and contaminating the fuel with water.



**If necessary, the compressor can be stopped by operating the engine's manual stop lever (ML).**

#### Fault situations and protective devices:

- The starter motor is protected against prolonged starting or against attempts to start when the group is already running.
  - A fault which occurs with the engine, either: oil pressure (too low) or alternator voltage (too low) will always and immediately cause the engine to cut out and the control lamp (H6) will light up. By doing some simple checks, it can be determined what it was that caused the engine to fail: low oil level, clogged-up cooler, slack alternator belt tension or broken belt .
  - When the outlet temperature of the element becomes too high, a thermocontact will also switch off the group immediately. Alarm lamp (H6) will go on.
- Both control lamps will remain on until the group has been restarted or the contact is turned off; also when, due to cooling off, the thermocontact has closed again.



3.3.2 GENERATOR FUNCTION

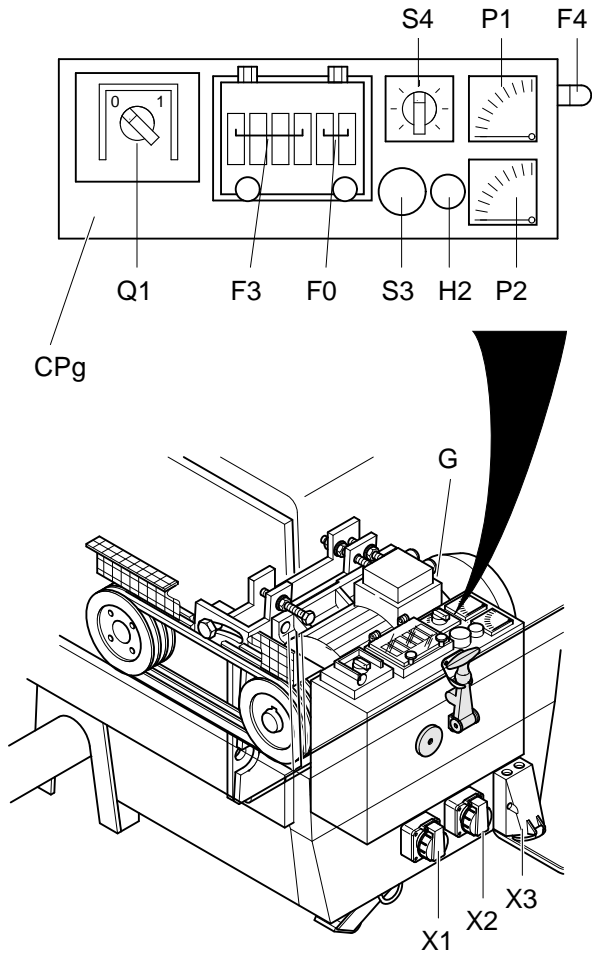


Fig. 3.6 generator assembly

CPg	Control panel generator	P2	Frequencymeter
F0	Circuit breaker	Q1	Main switch
F3	Circuit breaker	S3	Pushbutton ISO
F4	Fuse	S4	Selector switch
G	Generator	X1	Outlet socket 230V-50Hz
H2	Lamp ISO failure (red)	X2	Outlet socket 230V-50Hz
P1	Voltmeter	X3	Outlet socket 400V-50Hz

The main switch (Q1) is an engine safety switch which cuts out automatically during overload. Additionally the main switch automatically cuts out if there is a fault in the insulation or if through overheating of the generator. The voltmeter (P1) can, by using the selector switch (S4) be used to measure voltage between different phases and neutral.


This generator can be operated without earthing.

Check every day (with engine running):

1. Switch ON main switch Q1
2. Operate push button S3
3. Check whether main switch Q1 cuts out.

Generator may only be operated when main switch Q1 cuts out.

3.4 DURING OPERATION

 The doors must be closed during operation and may be opened for short periods only.

Regularly carry out following checks:

- 1 That regulating valve (RV) is correctly adjusted, i.e. starts decreasing the engine speed when reaching the preset working pressure in the receiver.
- 2 The air outlet temperature (TG- Fig. 3.7) of the compressor element.
- 3 Check the air filter vacuum indicator (VI- Fig. 2.3). If the yellow piston reaches the red marked service range, service or replace the filter element. Reset the indicator by pushing the reset button.
- 4 On compressors with aftercooler, check that the automatic drain of the water separator is operative without air leakage.

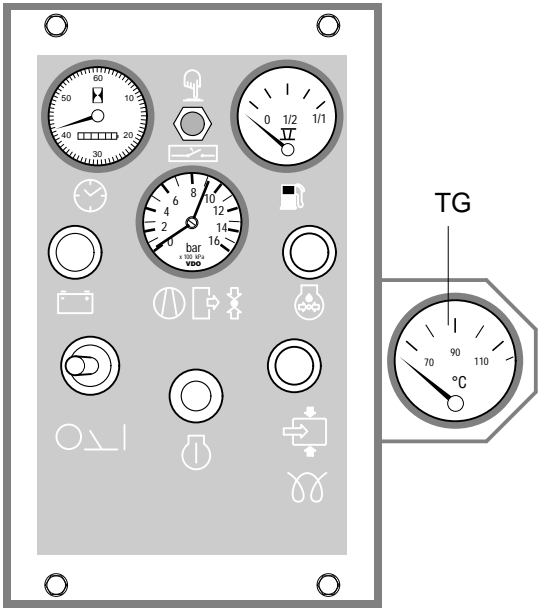


Fig. 3.7 Air outlet temperature gauge (TG)  
(View with opened righthand door)

## 4. MAINTENANCE

### 4.1 USE OF SERVICE PAKS

Service Paks include all genuine parts needed for normal maintenance of both compressor and engine.

Service Paks minimise downtime and keep your maintenance budget low.

Order Service Paks at your local Atlas Copco dealer.


### 4.2 PREVENTIVE MAINTENANCE SCHEDULE FOR THE COMPRESSOR

The schedule contains a summary of the maintenance instructions. Read the respective section before taking maintenance measures.

When servicing, replace all disengaged packings, e.g. gaskets, O-rings, washers.

For engine maintenance refer to Engine Operation Manual.

The maintenance schedule has to be seen as a guideline for units operating in a duty environment typical to compressor applications. Maintenance schedule can be adapted depending on application environment and quality of maintenance.

MAINTENANCE SCHEDULE	Daily	Normal <i>or every 500 hours</i>	Yearly <i>or every 1000 hours</i>	Remarks
<b>SERVICE PAK</b>		<b>2905 0599 02</b>	<b>2905 0599 03</b>	
Engine oil level	Check			
Compressor oil level	Check			
Air filter dust trap	Empty			
Fuel filter water drain	Drain			
Generator main switch	Check			
Generator V-belt tension		Check/Adjust		
Air intake vacuum indicator	Check		Test	
Electrolyte level and terminals of battery		Check	Check	
Tyre pressure		Check	Check	
Leaks in air-, oil- or fuel system		Check	Check	
Oil cooler package		Clean	Clean	
Engine minimum and maximum speeds		Check	Check	
Torque of wheel bolts		Check	Check	
Brake system (if installed)		Check/Adjust	Check/Adjust	
Safety valve			Test	
Door Hinges		Grease	Grease	
Towing eye shaft or ball coupling and its shaft		Grease	Grease	
Shut-down switches			Check	
Pressure drop over separator element (2)		Measure	Replace	
Fan v-belt (3)		Adjust	Adjust	
Fuel tank		Clean	Clean	
Compressor oil			Change	
Compressor oil filter			Replace	
Air filter element (1)		Check	Replace	
Engine oil (3) (4)		Change	Change	
Engine oil filter (3)		Replace	Replace	
Fuel filter (3)		Replace	Replace	
Engine inlet and outlet valves (3)			Adjust	first adjustment
Oil flow restrictor		Clean	Clean	
Aftercooler water separator (if installed)		Clean	Clean	
Ball joints and pivots (solenoid/speed regulation)		Grease	Grease	
Wheel bearings			Grease	
Operating of regulating valve, speed regulator, unloader			Check	
<b>Inspection by Atlas Copco Service technician</b>				

- (1) More frequently when operating in a dusty environment.  
 (2) Replace the element when the pressure drop exceeds 0.8 bar.  
 (3) Refer to the KHD Deutz Engine Operation manual.  
 (4) 500 hours only valid when using PAROIL SAE 15 W 40.



**Keep the bolts of the housing, the lifting eye, the towbar and the axle securely tightened. Refer to 'Technical specifications' for the torque values.**

## 4.3 LUBRICATION OILS

It is strongly recommended to use Atlas Copco branded lubrication oils for both compressor and engine.

Mineral compressor oil **PAROIL M**:  
for use in normal conditions.

- 5 liter can : order number **1615 5947 00**
- 20 liter can : order number **1615 5948 00**
- 208 liter barrel : order number **1615 5949 00**

Mineral engine oil **PAROIL SAE 15 W 40**:  
for use in normal conditions.

- 5 liter can : order number **1615 5953 00**
- 20 liter can : order number **1615 5954 00**
- 208 liter barrel : order number **1615 5955 00**

Synthetic compressor oil **PAROIL S**:  
for use in ambient temp. below -10° C.

- 5 liter can : order number **1615 5950 00**
- 19 liter can : order number **1615 5951 00**
- 208 liter barrel : order number **1615 5952 00**



**Never mix synthetic with mineral oil.**



**If you want to use another brand of oil, consult Atlas Copco for more information concerning the recommended oil and service intervals.**

## 4.4 OIL LEVEL CHECK



**Never mix oils of different brands or types**

**Use only non-toxic oils where there is a risk of inhaling delivered air**

### 4.4.1 CHECK ENGINE OIL LEVEL

Consult also the Engine Operation Manual for the oil specifications, viscosity recommendations and oil change intervals.

See schedule.

Check engine oil level according to the instructions in the Engine Operation Manual and top up with oil if necessary.

### 4.4.2 CHECK COMPRESSOR OIL LEVEL

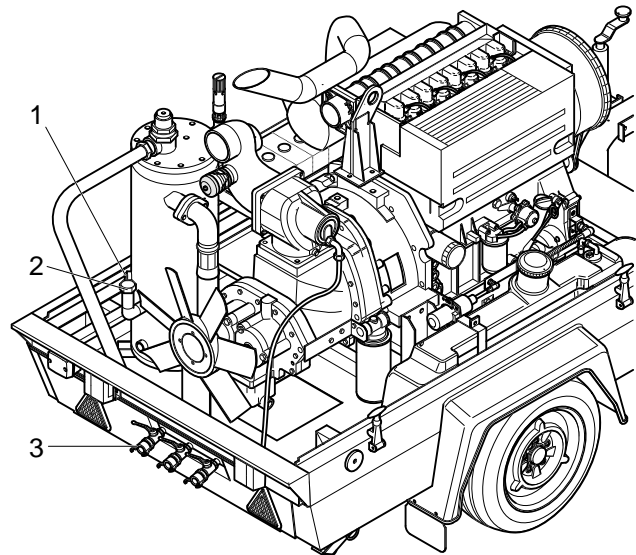


Fig. 4.1 Check compressor oil level

Stop the compressor. Let the oil settle for a few minutes.

With the unit standing level, check the level of the compressor oil.

The pointer of the oil level gauge (1) must register in the upper extremity of the green range. Add oil if necessary.



**Before removing oil filler plug (2), ensure that the pressure is released by opening an air outlet valve (3).**

After topping up with oil, reinstall and tighten the filler plug.

## 4.5 OIL AND OIL FILTER CHANGE

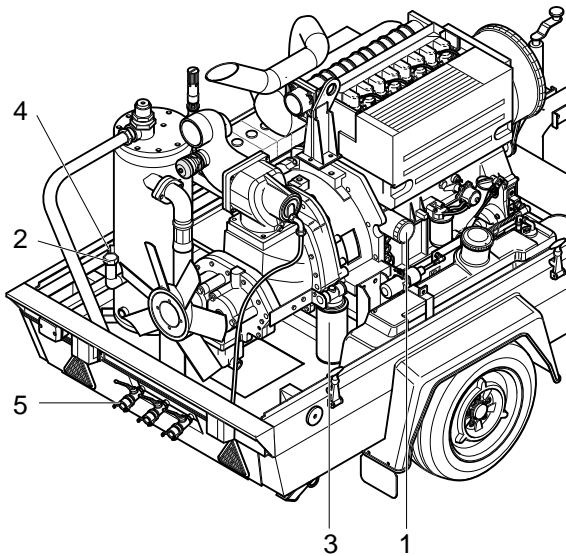


Fig. 4.2 Oil filters

### 4.5.1 ENGINE OIL AND OIL FILTER CHANGE

Consult also the Engine Operation Manual for oil and oil filter (1) change intervals.

### 4.5.2 COMPRESSOR OIL AND OIL FILTER CHANGE

The quality and the temperature of the oil determine the oil change interval.

The prescribed interval (See section 4.2) is based on an oil temperature of up to 100 °C and normal operating conditions.

When operating in high ambient temperatures, in very dusty or high humidity conditions, it is recommended to change the oil more frequently.



**In this case, contact Atlas Copco.**

- 1 Run the compressor until warm. Close the outlet valve(s) and stop the compressor. Wait until the pressure is released through the automatic blow-down valve. Unscrew the oil filler plug (2) one turn. This uncovers a vent hole, which permits any pressure in the system to escape.
- 2 Drain the oil by removing all drain plugs. Drain plugs are located at the oil tank, oil cooler, check valve and oil stop valve. The two last-mentioned plugs are accessible after removal of the service door underneath the compressor element. Catch the oil in a drain pan. Screw out the filler plug to speed up draining. Tighten the plugs after draining.
- 3 Remove the oil filter (3), e.g. by means of a special tool. Catch the oil in a drain pan.
- 4 Clean the filter seat on the manifold, taking care that no dirt drops into the system. Oil the gasket of the new filter element. Screw it into place until the gasket contacts its seat, then tighten one half turn only.

- 5 Fill the air receiver until the pointer of the oil level gauge (4) registers in the upper extremity of the green range. Take care that no dirt drops into the system. Reinstall and tighten the filler plug.
- 6 Run the unit at no load for a few minutes to circulate the oil and to evacuate the air trapped in the oil system.
- 7 Stop the compressor. Let the oil settle for a few minutes. Check that the pressure is released by opening an air outlet valve (5). Screw out filler plug (2) and add oil until the pointer of the oil level gauge (4) again registers in the upper extremity of the green range. Reinstall and tighten the filler plug.



**Never add more oil. Overfilling results in oil consumption.**

## 4.6 CLEANING COOLERS

Consult the Engine Operation Manual for engine cooler cleaning intervals and procedure.

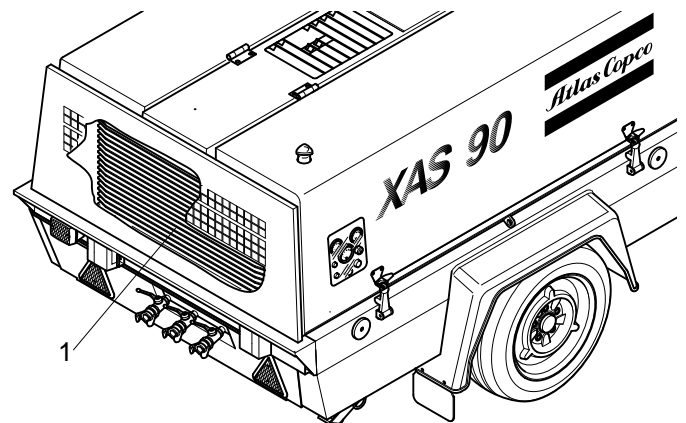


Fig. 4.3 Compressor oil cooler

Keep the compressor oil cooler (1) clean to maintain the cooling efficiency.



**Remove any dirt from the cooler with a fibre brush. Never use a wire brush or metal objects.**

Then clean by air jet in reverse direction of normal flow.

If the dirt is oily, wash the cooler with fuel or a cleansing agent.



**Protect the electrical and controlling equipment, air filters etc. against penetration of moisture.**

A spray gun should preferably be used to apply the solvent to the fins. Rinse the block by means of a water jet max. 80 bar at 5 cm distance after a soaking-in period. Steam cleaning may also be applied.



**Never leave spilled liquids such as fuel, oil, water and cleansing agents in or around the compressor.**

## 4.7 BATTERY CARE



**Before handling batteries, read the relevant safety precautions and act accordingly.**

An ASB (Service Bulletin) dealing elaborately with batteries and due care is available on request.

If the battery is still dry, it must be activated as described in point 4.7.1.

The battery must be in operation within 2 months from being activated; if not, it needs to be recharged first.

### 4.7.1 ACTIVATING A DRY-CHARGED BATTERY

- Take out the battery.
- Battery and electrolyte must be at equal temperature above 10 °C.
- Remove cover and/or plug from each cell.
- Fill each cell with electrolyte until the level reaches 10 to 15 mm above the plates, or to the level marked on the battery.
- Rock the battery a few times so that possible air bubbles can escape; wait 10 minutes and check the level in each cell once more; if required, add electrolyte.
- Refit plugs and/or cover.
- Place the battery in the compressor.

### 4.7.2 ELECTROLYTE



**Read the safety instructions carefully**

Electrolyte in batteries is a sulphuric acid solution in distilled water.

The solution must be made up before being introduced into the battery.

### 4.7.3 RECHARGING A BATTERY

Before and after charging a battery, always check the electrolyte level in each cell; if required, top up with distilled water only. When charging batteries, each cell must be open, i.e. plugs and/or cover removed.



**Use a commercial automatic battery charger according to its manufacturer's instructions.**

Apply with preference the slow charging method and adjust the charge current according to the following rule of thumb:

battery capacity in Ah divided by 20 gives safe charging current in Amp.

### 4.7.4 BATTERY MAINTENANCE

- Keep the battery clean and dry
- Keep the electrolyte level at 10 to 15 mm above the plates or at the indicated level; top up with distilled water only.
- Keep the terminals and clamps tight, clean, and lightly covered with petroleum jelly.

## 4.8 STORAGE

Run the compressor regularly, e.g. twice a week, until warm.

Load and unload the compressor a few times to operate the unloading and regulating components. Close the air outlet valves after stopping.



**If the compressor is going to be stored without running from time to time, protective measures must be taken as described in a separate Service Bulletin (ASB), which may be obtained on request.**

## 4.9 SERVICE KITS

A service kit is a collection of parts to fit a specific repair or rebuilding task.

It guarantees that all necessary parts are replaced at the same time which improves the uptime of the unit.

The order numbers of the Service Kits are listed in the Atlas Copco Parts List (ASL).



**Contact Atlas Copco.**

## 4.10 COMPRESSOR ELEMENT OVERHAUL

When a compressor element is due for overhaul, it is recommended to have it done by Atlas Copco. This guarantees the use of genuine parts and correct tools with care and precision.

## 5. ADJUSTMENTS AND SERVICING PROCEDURES

### 5.1 ADJUSTMENT OF THE REGULATING VALVE

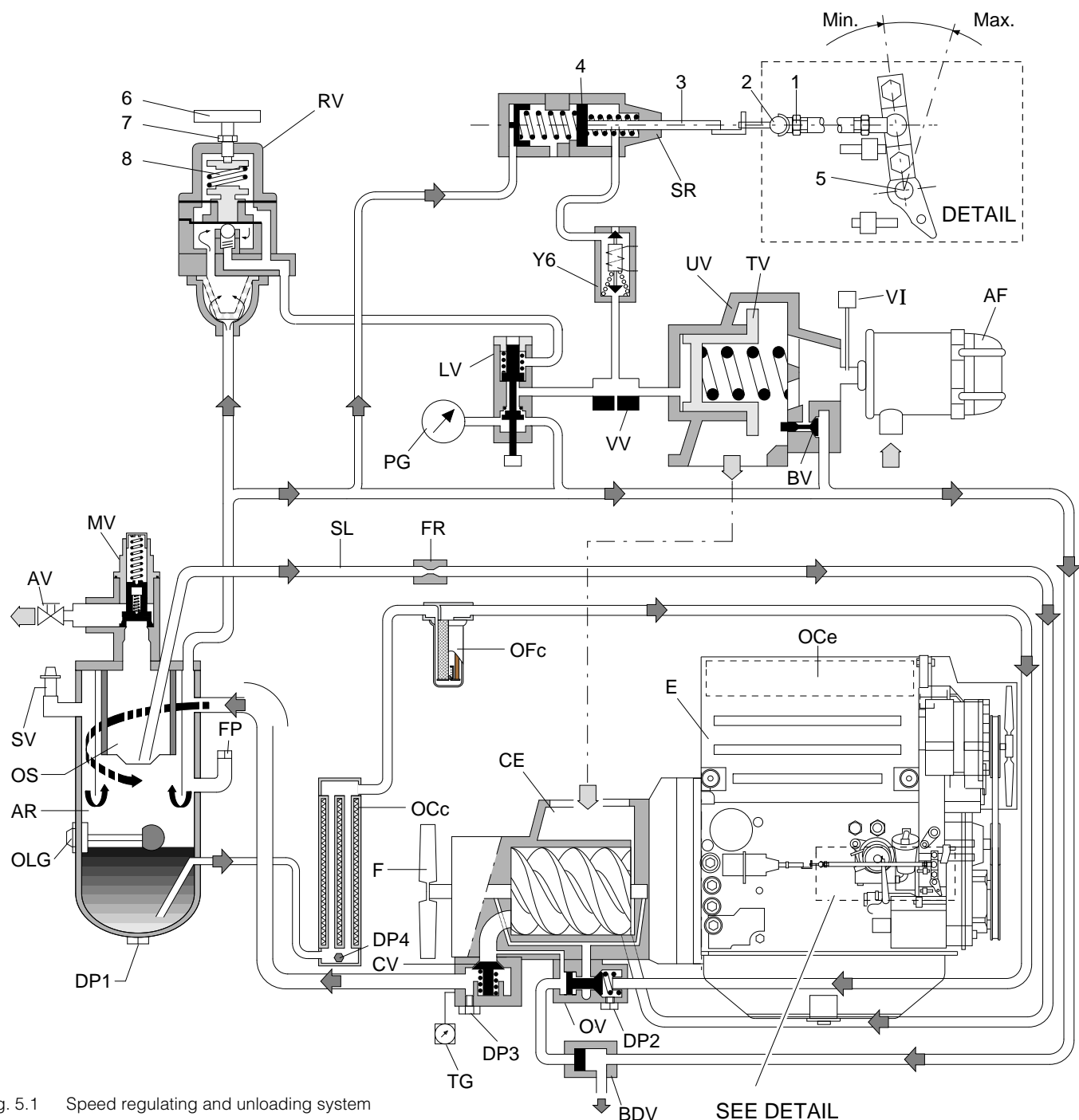


Fig. 5.1 Speed regulating and unloading system

AF	Air filter (for engine and compressor)	FR	Flow restrictor, oil scavenging line	TV	Throttle valve
AR	Air receiver	LV	Loading valve	UV	Unloader valve
AV	Air outlet valves	MV	Minimum pressure valve	VI	Vacuum indicator
BDV	Blow-down valve	OCc	Oil cooler compressor	VV	Venting valve
BV	Bleeder valve	OCe	Oil cooler engine	Y6	Solenoid valve for maximum speed of engine
CE	Compressor element	OFc	Oil filter, compressor	1.	Check nut, ball joint
CV	Check valve	OLG	Oil level gauge	2.	Ball-and-socket joint
DP1	Drain plug, oil tank	OS	Oil separator element	3.	Piston rod
DP2	Drain plug, oil stop valve	OV	Oil stop valve	4.	Piston
DP3	Drain plug, check valve	PG	Working pressure gauge	5.	Engine speed control lever
DP4	Drain plug, oil cooler	RV	Regulating valve	6.	Adjusting wheel, working pressure
E	Engine	SL	Scavenge line	7.	Check-nut, adjusting wheel
F	Fan	SR	Speed regulator	8.	Spring
FP	Filler plug, compressor oil	SV	Safety valve		
		TG	Air/oil temperature gauge		

– See Fig. 5.1 –

The working pressure is determined by the tension of the spring (8) in the regulating valve (RV). This tension is increased to raise the working pressure and decreased to lower it by turning the adjusting wheel (6) clockwise and anti-clockwise respectively.

To adjust the normal working pressure, proceed as follows:

1. Start and warm up the engine; load the compressor but do not open the outlet valves. Check the unloading pressure which should be approx. 1 - 1.5 bar above the normal working pressure. If the receiver pressure is less, loosen check nut (7) and turn adjusting wheel (6) a fraction of a turn at a time, clockwise until the right unloading pressure is obtained.
2. Open an outlet valve just enough to maintain the normal working pressure in the air receiver. Check that the engine speed control lever (5) is against the maximum speed stop screw. If not, slowly turn the adjusting wheel clockwise until the lever butts against the screw. The piston rod (3) of the speed regulator is in its full-out position and the engine runs at its pre-set maximum load speed.
3. While maintaining the normal working pressure in the air receiver, turn the adjusting wheel, a fraction of a turn at a time, anti-clockwise until the engine just starts decelerating. Next, turn the adjusting wheel 1/4 of a turn clockwise. Repeat the operation, if necessary, and lock the wheel with its check nut (7).
4. Close the outlet valve(s) to decelerate the engine to its unloading speed. The piston rod of the speed regulator should then be in its full-in position and piston (4) rest against its stop in the regulator.
5. Check the unloading speed. Adjust, if necessary, the length of the speed regulator operating rod by means of ball-and-socket joint (2). Tighten the check nut (1) of the ball joint after adjustment.



1. **Never operate the engine below its unloading speed.**
2. **Never exceed the maximum (unloading) pressure.**

## 5.2 AIR FILTER ENGINE/COMPRESSOR

### 5.2.1 MAIN PARTS

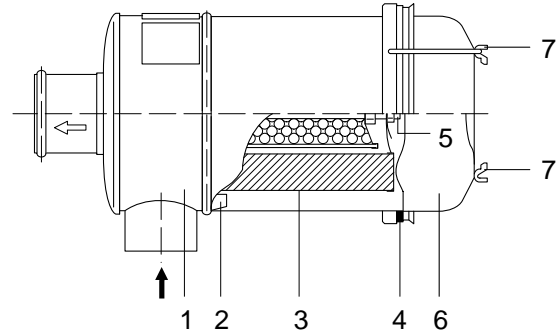


Fig. 5.2 Air filter

- |   |                               |
|---|-------------------------------|
| 1 | Filter housing                |
| 2 | Cyclone blades                |
| 3 | Filter element                |
| 4 | Baffle                        |
| 5 | Retaining nut, filter element |
| 6 | Dust trap                     |
| 7 | Snap clips                    |

### 5.2.2 RECOMMENDATIONS



**The Atlas Copco air filters are specially designed for the application. The use of non-genuine air filters may lead to severe damage of engine and /or compressor element.**

**Never run the compressor without air filter element.**

New elements must also be inspected for tears or punctures before installation.

Discard the filter element (3) when damaged.

Never use oil in the dust trap.

The vacuum indicator can be reset by pushing the reset button in the extremity of the body (Fig. 5.3,9).

### 5.2.3 CLEANING THE DUST TRAP

1. Release the two snap clips (7) that secure the dust trap to the filter body and remove the trap.
2. Pry off the plastic baffle (4) from the trap and empty the latter.
3. Clean the trap and baffle and reassemble them, taking care that the slot in the baffle fits over the stud of the trap.
4. Reinstall the trap on the filter body, with the side marked "TOP" upwards, and secure it with the clips.

### 5.2.4 REPLACING THE AIR FILTER ELEMENT

1. Release the snap clips (7) and remove the dust trap (6). Clean the trap.
2. Remove retaining nut (5) and withdraw the element (3) from housing (1).  
If the element is to be serviced for immediate re-use, reinstall the dust trap to protect the air intake system while cleaning the element.
3. Replace the filter and reassemble in reverse order of dismantling.
4. Inspect and tighten all air intake connections.
5. Reset the vacuum indicator (Fig. 5.3).

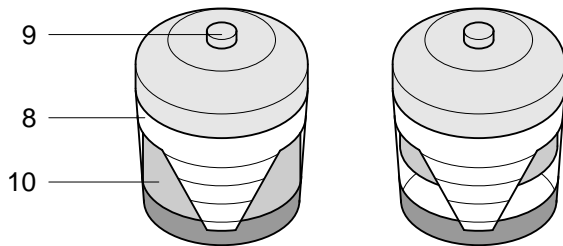


Fig. 5.3 Vacuum indicator

- 8 Air filter contamination indicator
- 9 Reset button
- 10 Yellow indicator

### 5.3 AIR RECEIVER

The air receiver is tested according to official standards. Regularly have inspections carried out in conformity with local regulations.

### 5.4 SAFETY VALVE



**All adjustments or repairs are to be done by an authorized representative of the valve supplier.**

Following checks must be carried out:

- a check of the opening of the lifting gear, twice a year. This can be done by screwing the cap of the valve anti-clockwise.
- a check of the set pressure once a year according to the local regulations. This check cannot be done on the machine and must be carried out on a proper test bench.

### 5.5 FUEL SYSTEM

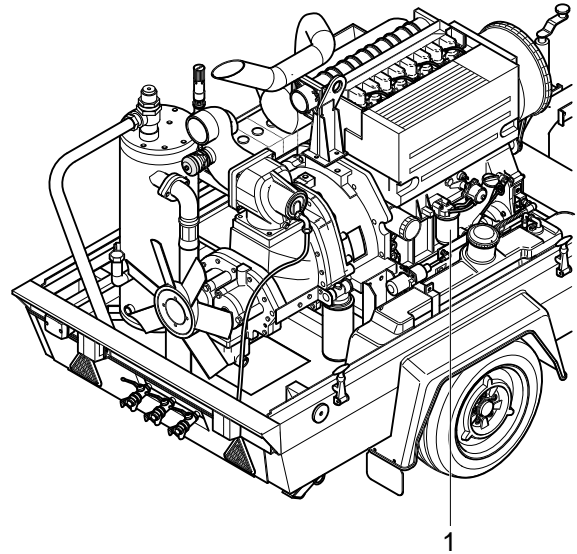


Fig. 5.4 Fuel filter

#### Replacing the filter element

1. Unscrew the filter element (1) from the adapter head.
2. Clean the adapter head sealing surface. Lightly oil the gasket of the new element and screw the latter onto the header until the gasket is properly seated, then tighten with both hands.
3. Check for fuel leaks once the engine has been restarted.



## 5.6 BRAKE (= OPTION) ADJUSTMENT



**Before jacking up the compressor, connect it to a towing vehicle or attach a weight of minimum 50 kg to the towbar.**

Before removing a brake cable, a strap must be passed around the brake lever, in its downward position, and the towbar.

This strap may only be removed after proper reinstallation of the brake cables.

### 5.6.1 BRAKE SHOE ADJUSTMENT

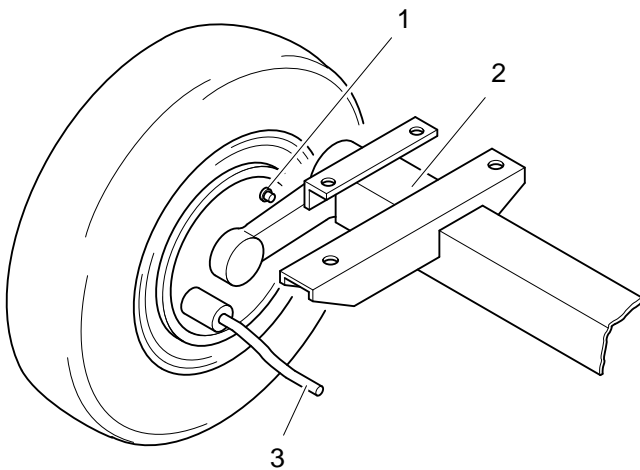


Fig. 5.5 Wheel assembly

- 1 Adjusting nut, brake shoe
- 2 Axle
- 3 Brake cable

Brake shoe adjustment re-establishes the brake lining-to-drum clearance and compensates for lining wear.

Adjustment can only be done with the towing eye in its pulled-out position.

1. Jack up the axle until a wheel clears the floor. Support the compressor on wooden blocks.
2. Disconnect the brake cables (Fig. 5.6, 1).
3. While turning the wheel in the sense of forward towing, turn brake adjusting nut (Fig. 5.5, 1) clockwise until the brake shoes block the drum. Then loosen the nut, with the wheel again turning in the same direction, until the drum rotates freely or with a light friction. Repeat for the other wheel.
4. Adjust the brake cables as described below.

### 5.6.2 BRAKE CABLE ADJUSTMENT

1. Reconnect the brake cables (Fig. 5.6).
2. With the towing eye pulled out and the hand brake lever (Fig. 5.7) in the downward position, turn adjusting nut and brake cable nuts (Fig. 5.6, 4) clockwise until there is no slack in the brake mechanism.  
The equalizer (Fig. 5.6, 6) must remain perpendicular to main brake cable (Fig. 5.6, 5).
3. Apply the hand brake lever several times and repeat the adjustment. Tighten the nuts with their lock nuts (Fig. 5.6, 2). Remove the jack and the blocks.
4. Road-test the compressor and brake several times. Then repeat steps 1 and 3 of Section 5.6.1.

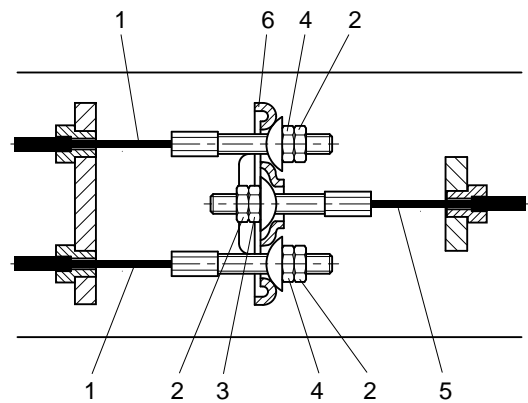


Fig. 5.6 Brake cable arrangement

- 1 Brake cable
- 2 Lock nut
- 3 Adjusting nut
- 4 Brake cable nut
- 5 Main brake cable
- 6 Equalizer

### 5.6.3 TEST PROCEDURE OF BRAKE ADJUSTMENT

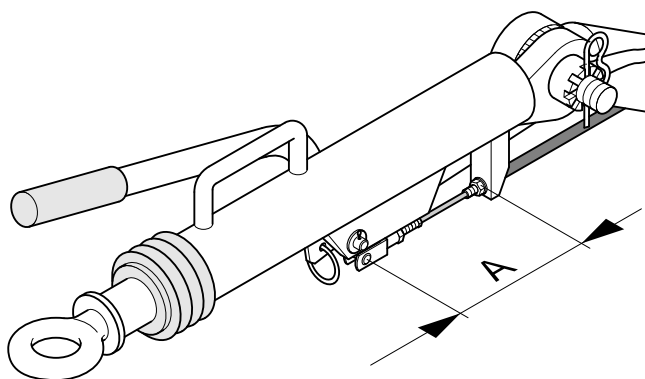


Fig. 5.7 Detail of brake system

The final check must be carried out as follows:

1. Check if the towing eye rod of the overrun brake mechanism is in the outmost position.
2. Apply the handbrake lever.
3. Push the compressor a few inches backwards so that the brake lever is automatically pulled further up.
4. Measure dimension "A" (Fig. 5.7). The dimension "A" should be 197 mm (+/- 3 mm); if not, the brake mechanism should be readjusted.

### 5.7 V-BELT ADJUSTMENT

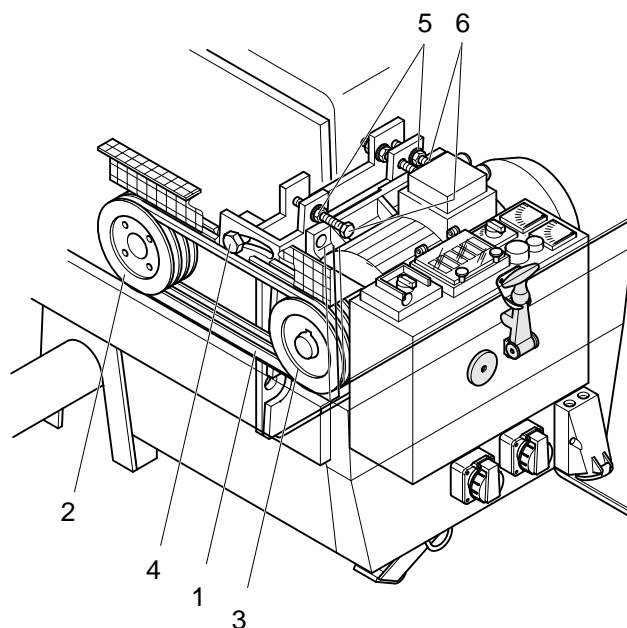


Fig. 5.8 V-belt drive generator

Regularly check and, if necessary, adjust the tension of the generator V-belts (1). Use a straight edge and check V-belt slack midway between the two pulleys (2 and 3) by applying finger pressure. Remove any belt slack in excess of 8 mm.

Loosen bolt (4). Loosen locknuts (5). Turn adjusting bolts (6) clockwise to increase V-belt tension or counterclockwise to decrease V-belt tension. When the V-belt tension is within limit mentioned above, retighten lock nuts (5) and bolt (4).

## 6. PROBLEM SOLVING

### 6.1 PROBLEM SOLVING CHART

The chart helps to solve mechanical and electrical problems.

It is assumed that the engine is in good condition and that there is adequate fuel flow to the filter and injection equipment.



**An electrical fault must be traced by an electrician.**

Make sure that the wires are not damaged and that they are clamped tight to their terminals.

### 6.2 ALTERNATOR PRECAUTIONS

1. Never reverse the polarity of the battery or the alternator.
2. Never disconnect any alternator or battery connections while the engine is running.
3. When recharging the battery, disconnect it from the alternator. Before using booster cables to start the engine, be sure of the polarity and connect the batteries correctly.
4. Never operate the engine without the main or voltage sensing cables connected in the circuit.

Problem	Possible faults	Corrective actions
1. Lamps (H1, H6) do not light up when switching (S1) to "I".	a. Discharged or defective battery. b. Loose battery cable(s) or oxidised terminals. c. Loose connection or damaged wiring. d. Switch (S1) defective. e. Circuit breaker (F1) defective.	a. Check electrolyte level and charge battery. If no cells are shorted and battery is discharged, trace cause and correct. b. Check and correct as necessary. c. Check wiring and connections, correct as necessary. d. With (S1) switched in "I", check voltage between earth and respectively each of the terminals of (S1). Voltage must register at each of the terminals; if not, replace (S1). e. Replace circuit breaker.
2. Alarm lamp (H1) does not light up when switching (S1) to "I"; lamp (H6) lights up.	a. Lamp (H1) blown. b. Alternator/regulator defective.	a. Replace lamp. b. Disconnect the wire from alternator terminal D+ and connect it to terminal D-. If (H1) lights up, replace the alternator; if not, test (S1); see remedy 1d.
3. Lamp (H6) does not light up when switching (S1) to "I", lamp (H1) lights up.	a. Lamp (H6) blown. b. See fault 1d.	a. Replace lamp. b. See remedy 1d.
4. Starter motor does not crank engine after switching (S1) to "I" and depressing (S2).	a. Low battery output. b. Start switch (S2) defective. c. Alternator output relay (K6) defective. d. Start solenoid (K0) or starter motor defective.	a. See remedy 1a. b. With (S1) in "I" and (S2) depressed, check voltage between earth and respectively each of the terminals of (S2). Voltage must register at each of the terminals; if not, replace (S2). c. Replace (K6). d. Check start solenoid (K0). Have starter motor repaired.

Problem	Possible faults	Corrective actions
5. Starter motor cranks engine when depressing (S2), but engine does not fire.	a. Switch (S2) defective. b. Fuel solenoid (Y1) defective. c. Low battery output.	a. See remedy 4b. b. Check solenoid and its valve; correct or replace as necessary. c. See remedy 1a.
6. Engine fires, but lamp (H1) remains alight; compressor stops when releasing (S2).	a. Alternator drive belt broken or slipping. b. Alternator/regulator defective.	a. Check and correct as necessary. b. Have assembly repaired.
7. Engine is running, but shuts down immediately after (S2) has been released.	a. Override push button released too soon. b. Insufficient engine oil pressure. c. Fuel tank (FT) contains insufficient fuel. d. Engine oil pressure shut-down switch (S5) or compressor temperature shut-down switch (S7) defective.	a. Release button after engine oil pressure has built up to above the minimum allowed value. b. Stop at once, consult Engine Operation Manual. c. Fill fuel tank. d. Remove and test switches. Replace if out of order.
8. Lamp (H6) remains alight for over 10 seconds after starting.	a. Fuel tank (FT) contains insufficient fuel. b. Insufficient engine oil pressure. c. Engine oil pressure switch (S5) or compressor temperature switch (S7) defective. d. Fuel level sensor (B6) defective, relay (K8) out of order.	a. Fill fuel tank. b. Stop at once, consult Engine Operation Manual. c. Stop at once, test switches, replace if necessary. d. Stop at once, test switches, replace if necessary. If in order, replace relay (K8).
9. Hourmeter (P3) does not count running time.	a. Hour meter (P3) defective.	a. Replace.
10. Compressor does not unload and engine keeps running at maximum speed when closing the air outlet valves (AR); safety valve (SV) blows.	a. Air leaks in regulating system. b. Regulating valve (RV) incorrectly set or defective. c. Unloader valve (UV) or its actuating piston stuck.	a. Check and repair. b. Adjust or repair regulating valve; see section 5.1. c. Repair unloader valve assembly.
11. Compressor capacity or pressure below normal.	a. Air consumption exceeds capacity of compressor. b. Choked air filter element (AF). c. Regulating valve (RV) incorrectly set. d. Engine not up to full speed.	a. Check equipment connected. b. Remove and inspect element. Clean or replace if necessary. c. See section 5.1. d. When engine control lever is against max. speed stop, check speed and in case of power loss, see Engine Operation Manual. If lever is not against stop, remove and inspect speed regulator and adjust length of operating rod.

Problem	Possible faults	Corrective actions
11. Compressor capacity or pressure below normal. (continued)	<ul style="list-style-type: none"> <li>e. Loading valve (LV) leakage past O-ring.</li> <li>f. Oil separator element (OS) clogged.</li> <li>g. Air intake throttle valve (TV) remains partially closed.</li> <li>h. Safety valve (SV) leaking.</li> <li>i. Bleeder valve (BV) leaking.</li> <li>j. Compressor element (CE) out of order.</li> </ul>	<ul style="list-style-type: none"> <li>e. Remove and inspect valve. Replace damaged or worn O-rings.</li> <li>f. Have element removed and inspected by an Atlas Copco Service representative.</li> <li>g. Disconnect hose between throttle valve housing and loading valve from the latter and connect hose to independent compressed air line. Repeatedly admit air and listen for sound of valve. If sound is not evident, remove unloader valve assembly, dismantle and inspect. Replace parts where necessary.</li> <li>h. Remove and inspect. Replace if not airtight after reinstallation.</li> <li>i. Remove and inspect. Replace, if necessary.</li> <li>j. Consult an Atlas Copco Service representative.</li> </ul>
12. Working pressure rises during operation and causes safety valve (SV) to blow.	<ul style="list-style-type: none"> <li>a. Regulating valve (RV) incorrectly set or defective.</li> <li>b. Air leaks in regulating system.</li> <li>c. Speed regulator (SR) malfunctioning.</li> <li>d. Air intake throttle valve (TV) does not close.</li> <li>e. Bleeder valve (BV) malfunctioning.</li> </ul>	<ul style="list-style-type: none"> <li>a. Adjust working pressure, see section 5.1. Dismantle and inspect parts if valve does not respond.</li> <li>b. Check hoses and their fittings. Stop leaks; replace leaking hoses.</li> <li>c. Remove, dismantle and inspect piston ring and its O-ring. Replace worn or defective parts.</li> <li>d. See 11g.</li> <li>e. Remove and inspect valve.</li> </ul>
13. Excessive compressor oil consumption. Oil mist being discharged from air outlet valve (s).	<ul style="list-style-type: none"> <li>a. Restrictor in oil scavenging (SL) line clogged.</li> <li>b. Oil separator element (OS) defective.</li> <li>c. Oil level too high.</li> </ul>	<ul style="list-style-type: none"> <li>a. Dismount, clean and refit restrictor.</li> <li>b. Replace element.</li> <li>c. Check for overfilling. Release pressure and drain oil to correct level.</li> </ul>
14. Air and oil expelled from air filter after stopping.	<ul style="list-style-type: none"> <li>a. If mainly air: check valve (CV) defective.</li> <li>b. If mainly oil: oil stop valve (OV) defective.</li> </ul>	<ul style="list-style-type: none"> <li>a. Repair valve and replace air filter element.</li> <li>b. Repair valve and replace air filter element.</li> </ul>

Problem	Possible faults	Corrective actions
15. Compressor overheating.	a. Insufficient compressor cooling. b. Oil cooler (OCc) clogged externally. c. Oil system clogged internally. d. Oil level too low. e. Cooling fan (F) defective. f. Oil separator element (OS) clogged. g. Oil filter (OFc) clogged. h. Oil stop valve (OV) stuck in closed position.	a. Relocate compressor. b. Clean cooler; see section 4.6. c. Consult Atlas Copco. d. See section 4.4. e. Replace fan. f. Replace oil separator. g. Replace oil filter. h. Remove and inspect valve.
16. Compressor loaded automatically to full capacity after starting.	a. Loading valve (LV) stuck in loaded position. b. Air intake throttle valve (TV) stuck in open position. c. Air leaks in regulating system.	a. Remove and dismantle. Correct if necessary. b. See remedy 11g. c. See remedy 12b.
17. Engine does not speed up immediately after compressor load button has been pressed and compressor does not deliver air.	a. Regulating valve (RV) out of order. b. Air intake throttle valve (TV) stuck in closed position.	a. Remove and dismantle. Correct if necessary. b. See remedy 11g.
18. Air consumption varies at pressures above pre-set working pressure, but engine does not accelerate nor decelerate.	a. Speed regulator (SR) defective.	a. Remove, dismantle and inspect parts.
19. After working for some time, the unit stops through a shut-down switch and alarm lamp (H6) lights up.	a. Fuel tank (FT) contains insufficient fuel. b. Engine oil pressure too low. c. Compressor overheating.	a. Fill fuel tank. Air-vent the fuel system if fuel level sensor (B6) is not installed. b. See Engine Operation Manual. c. See item 15.

### 7. AVAILABLE OPTIONS

The XA(S)90 DdG can be delivered with following options:

Type:	EURO ASME
Towbar:	Adjustable with brakes Adjustable without brakes Fixed with brakes Fixed without brakes Support (without undercarriage)
Towing eyes:	Atlas Copco DIN Ball NATO
Towbar support:	Leg Jockey wheel
Road signalisation:	Full Semi
Air quality equipment:	Aftercooler + water separator Aftercooler + water separator + PD/QD fine filters Aftercooler + water separator + PD/QD + reheater Lubricator
Generator:	230 V/ 50 Hz    3 kVA 120 V/ 60 Hz    3 kVA
Safety:	Wheel chocks Silencing foam Spark arrestor
Cold start:	-20°C kit
Customer colour:	single double triple

## 8. TECHNICAL SPECIFICATIONS

### 8.1 TORQUE VALUES

#### 8.1.1 FOR GENERAL APPLICATIONS

The following tables list the recommended torques applied for general applications at assembly of the compressor.

##### For hexagon screws and nuts with strength grade 8.8

Thread size	M6	M8	M10	M12	M14	M16
Nm	9	23	46	80	125	205

##### For hexagon screws and nuts with strength grade 12.9

Thread size	M6	M8	M10	M12	M14	M16
Nm	15	39	78	135	210	345

#### 8.1.2 FOR IMPORTANT ASSEMBLIES

Assemblies	Unit	Torque values
Wheel bolts	Nm	80 – 90
Axle/frame screws (M16)	Nm	185 – 225
Axle/frame screws (M12)	Nm	75 – 85
Bolts, towbar/axle (M12)	Nm	75 – 85
Screws, towbar/frame (M12)	Nm	75 – 85
Screws, lifting eye/flywheel housing	Nm	110 – 140
Screws, coupling half/coupling	Nm	80 – 90
Screws, towing eye/towbar (M12)	Nm	75 – 85
Nuts, engine outlet collector/silencer	Nm	50 – 55
Nuts, brake cable/wheel plate	Nm	15 – 25

#### Note:

Secure the tank cap and drain cock of the fuel tank handtight.

### 8.2 SETTINGS OF SHUT-DOWN SWITCHES AND SAFETY VALVES

Designation	Unit	
Engine oil pressure	bar(e)	2.3 - 1.8
Compressor temperature	°C	116 – 120
Safety valve opening pressure		
EC type	bar(e)	9.5

### 8.3 COMPRESSOR/ENGINE SPECIFICATIONS

#### Compressor type XA(S)90 DdG

##### Reference conditions

1. Absolute inlet pressure	bar	1
2. Relative air humidity	%	0
3. Air inlet temperature	°C	20
4. Normal effective working pressure	bar	7 (6)

The inlet conditions are specified at the air inlet grating outside the canopy

##### Performance data

1. Engine shaft speed, normal and maximum	r/min	2600-2700
2. Engine shaft speed, compressor unloaded	r/min	1400
3. Free air delivery	l/s	87
4. Compressed air temperature at outlet valves	°C	75
5. Noise level (XAS90 DdG)		
– Sound pressure level (LP), measured according to ISO 2151 with a tolerance of +/- 3 dB(A) under free field conditions at 7 m distance	dB(A)	73
– Sound power level (LW) comply with 84/533/EEC limits	dB(A)	100

##### Design data

##### Compressor

1. Number of compression stages		1
---------------------------------	--	---

##### Engine

1. Make		KHD
2. Type		F4L1011F
3. Coolant		OIL/AIR
4. Number of cylinders		4
5. Output according to DIN ISO 3046 IFN at normal shaft speed	kW	39.5

##### Generator

1. Output	kVA	9/5.5
2. Cos fi		1
3. Voltage	V	400/230
4. Current	A	13/24
5. Frequency	Hz	50
6. Insulation		IP 54
7. Interference class		N
8. Insulation class		F
9. Weight	kg	61



Unit

1. Capacity of compressor oil system	l	12
2. Nett capacity of air receiver	l	29
3. Capacity of fuel tank	l	85

Unit dimensions  
(with standard towbar)

Length	mm	3740
Width	mm	1520
Height	mm	1315
Weight (dry)	kg	1130

Outlet valve specifications

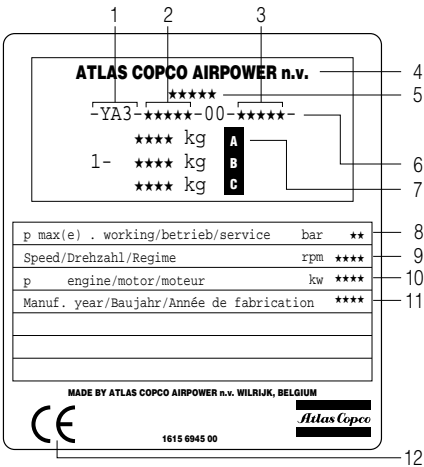
Number	diameter
3	3/4"

8.4 CONVERSION LIST OF SI UNITS INTO BRITISH UNITS

1 bar	=	14.504 psi
1 g	=	0.035 oz
1 kg	=	2.205 lb
1 km/h	=	0.621 mile/h
1 kW	=	1.341 hp (UK and US)
1 l	=	0.264 US gal
1 l	=	0.220 Imp gal (UK)
1 l	=	0.035 cu.ft
1 m	=	3.281 ft
1 mm	=	0.039 in
1 m³/min	=	35.315 cfm
1 mbar	=	0.401 in wc
1 N	=	0.225 lbf
1 Nm	=	0.738 lbf.ft
t °F	=	32 + (1.8 x t °C)
t °C	=	(t °F - 32)/1.8

– A temperature difference of 1 °C = a temperature difference of 1.8 °F

9. DATAPLATE



- Company code
- Product code
- Unit serial number
- Name of manufacturer
- EEC or national type approval number
- Vehicle identification number
- A Maximum permitted laden weight of the vehicle  
B Maximum permitted road weight of the vehicle  
C Maximum permitted laden weight of the towing eye
- Working pressure
- Speed
- Engine power
- Manufacturing year
- EC mark in accordance with Machine Directive 89/392 EEC

Registration code

	Collection:	ASL 23
	Tab:	69
	Sequence:	0150
		1990-11

Parts list for portable compressors  
Onderdelenlijst voor transportabele kompressoren  
Reservdelsförteckning för transportabla kompressorer  
Teilliste für fahrbare Kompressoren  
Liste de pièces pour compresseurs mobiles  
Lista de las partes para compresores transportables  
Listino parti di ricambio per compressori trasportabile

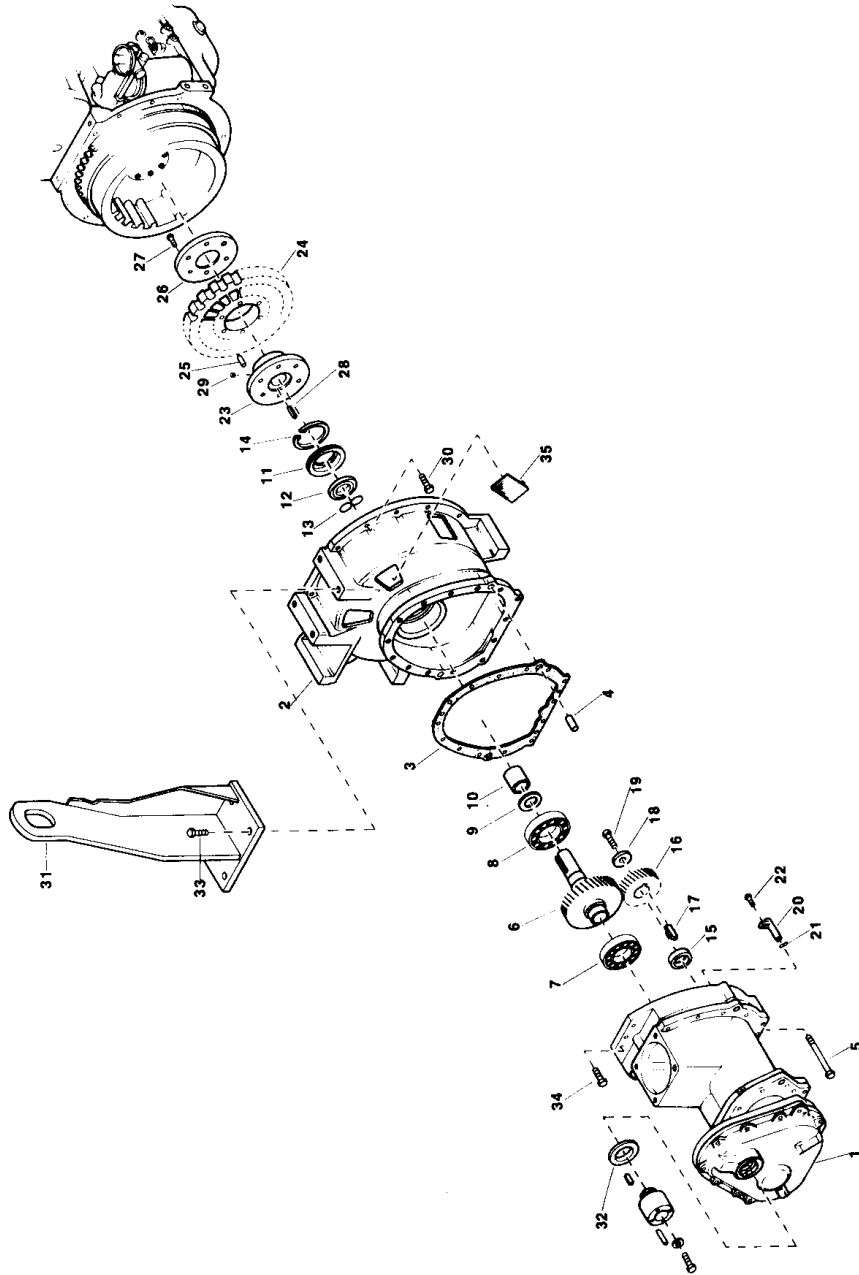
**XA(S)90 DdA**  
**XA(S)125,-175Dd, XAH(S)125 Dd**  
**XA125 DdA, XA175 DdA**

From following serial numbers onwards:  
Geldig vanaf volgende serienummers:  
Fr.o.m. tilverkningsnummer:  
Gültig ab Seriennummer:  
Valable à partir des numéros de série suivants:  
A partir de los siguientes números de serie:  
Dai seguenti numeri di serie in avanti:

XA(S)90 DdA	ARP-975 551
XA(S)125, XA125 DdA	ARP-914 934
XA(S)175, XA175 DdA	ARP-922 538
XAH(S)125	ARP-915 025

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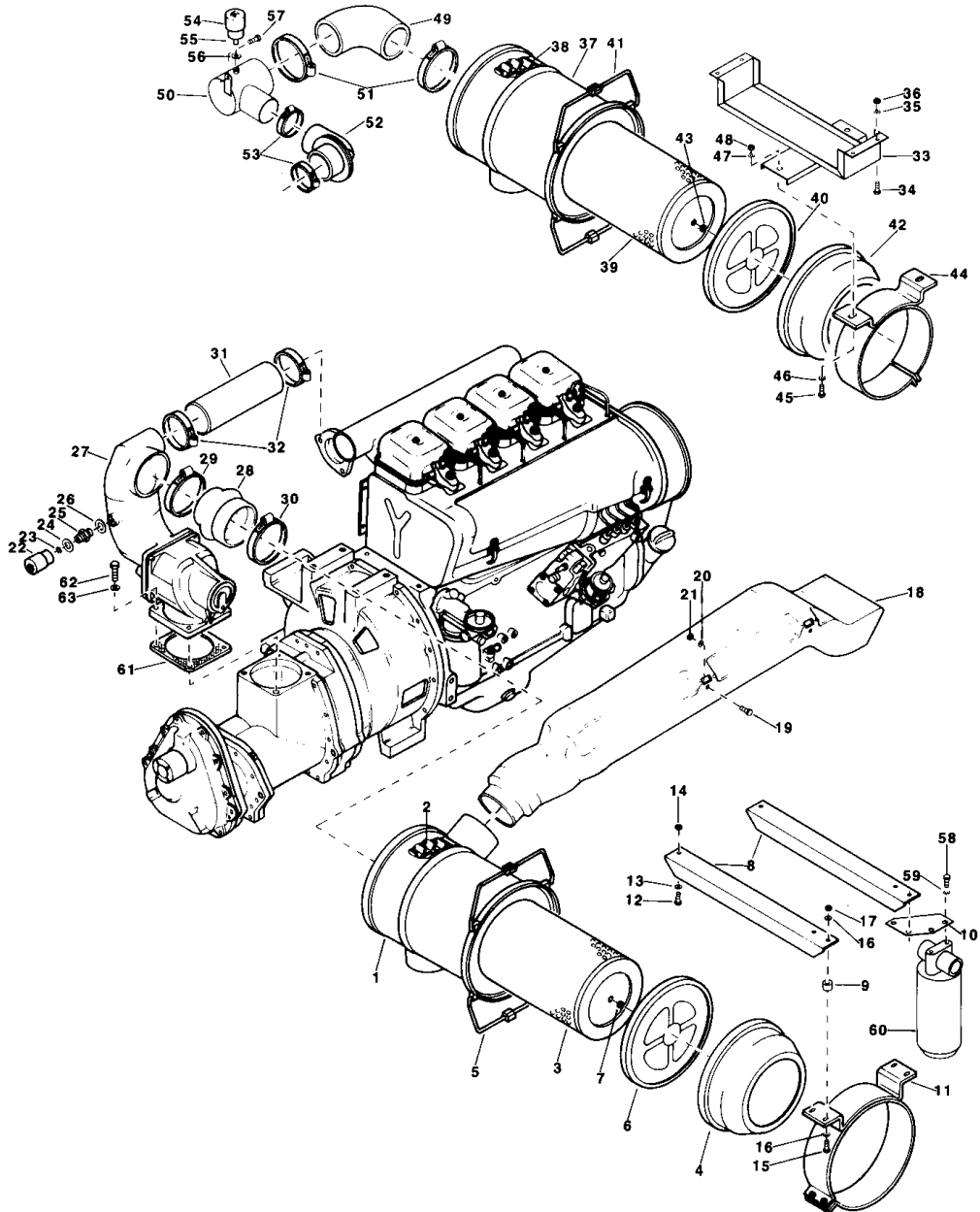
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41	Adjustable towbar - with brakes Regelbare trekstang - met remmen Justerbar dragstång - med bromsar Verstellbare Deichsel - mit Bremsen Timon réglable - avec freins Barra de tracción ajustable - con frenos Barra di traino regolabile - con freni		



Compressor element and drive gear  
 Kompressorelement en aandrijving  
 Kompressorelement och drivning  
 Kompressorelement und Antrieb  
 Élément compresseur et entraînement  
 Elemento compresor y accionamiento  
 Elemento compressore e ingranaggi di azionamento

Ref.	A	B	C	D	Designation	Ref.	A	B	C	D	Designation
1	1613 2189 80		1) .....	1	Compressor element	25	1619 5050 00		.....	6	Spacer
2	1616 4443 00		.....	1	Gear casing	26	1616 4647 00		.....	1	Coupling ring
3	1202 7015 00		1 .....	1	Gasket	27	0211 1957 35		.....	6	Cap screw
4	0101 1626 00		.....	2	Pin	28	0337 5202 00		.....	1	Key
5	0147 1377 03		.....	12	Bolt	29	0196 1360 00		.....	1	Set screw
6			.....	1	Drive shaft	30	0211 1363 00		.....	9	Cap screw
	1202 7043 00		.....		- XA(S)90DdA	31			.....	1	Lifting eye
	1615 4310 00		.....		- XA(S)125Dd		1615 4287 00		.....		- XA(S)90DdA,
	1202 5440 00		.....		- XAH(S)125Dd						XA(S)125Dd,
	1615 4355 00		.....		- XA125DdA,						XA(S)125Dd-
					XA(S)125Dd-						South Afrika
	1616 4444 00		.....		- XA(S)175Dd,		1616 4549 00		.....		- XAH(S)125Dd,
					XA175DdA,						XA125DdA,
	1616 4760 00		.....		- XA(S)175Dd-						XA(S)175Dd,
					South Afrika						XA175DdA,
7	0502 1090 21		1 .....	1	Bearing						XA175Dd-South
8	0504 2510 00		1 .....	1	Bearing						Afrika
9	1613 2199 00		.....	1	Washer	32	1619 3856 00		2 .....	1	Seal ring
10	1613 2200 00		.....	1	Bush	33	0147 1478 03		.....	4	Bolt
11	1613 2201 00		.....	1	Retainer	34	0147 1369 03		.....	2	Bolt
12	1619 3857 00		1,2 .....	1	Seal ring	35	1616 4652 00		.....	2	Screen
13	0663 7141 00		1,2 .....	1	O-ring						
14	0335 2169 00		.....	1	Circlip						
15	1202 8206 00		.....	1	Bush						
16			.....	1	Gearwheel						
	1202 8149 00		.....		- XA(S)90DdA						
	1202 8153 00		.....		- XA(S)125Dd						
	1202 8154 00		.....		- XAH(S)125Dd						
	1202 8152 00		.....		- XA125DdA,						
					XA(S)125Dd-						
					South Afrika						
	1202 8156 00		.....		- XA(S)175Dd,						
					XA175DdA						
	1202 8155 00		.....		- XA(S)175Dd-						
					South Afrika						
17	0337 6062 00		.....	1	Key						
18	1613 2197 00		.....	1	Washer						
19	0147 1409 03		1 .....	1	Bolt						
20	1613 2203 00		.....	1	Oil nozzle						
21	0663 3117 00		1 .....	1	O-ring						
22	0147 1244 03		.....	1	Bolt						
23	1616 4447 00		.....	1	Coupling half						
24	1619 3803 00		.....	1	Coupling element						

1611 4604 67 08/1611 4654 61 05/1611 4656 60 02/  
 1611 4656 65 11/1611 5568 90 02/1611 5568 91 03/  
 1611 5568 92 02/1611 5568 93 01  
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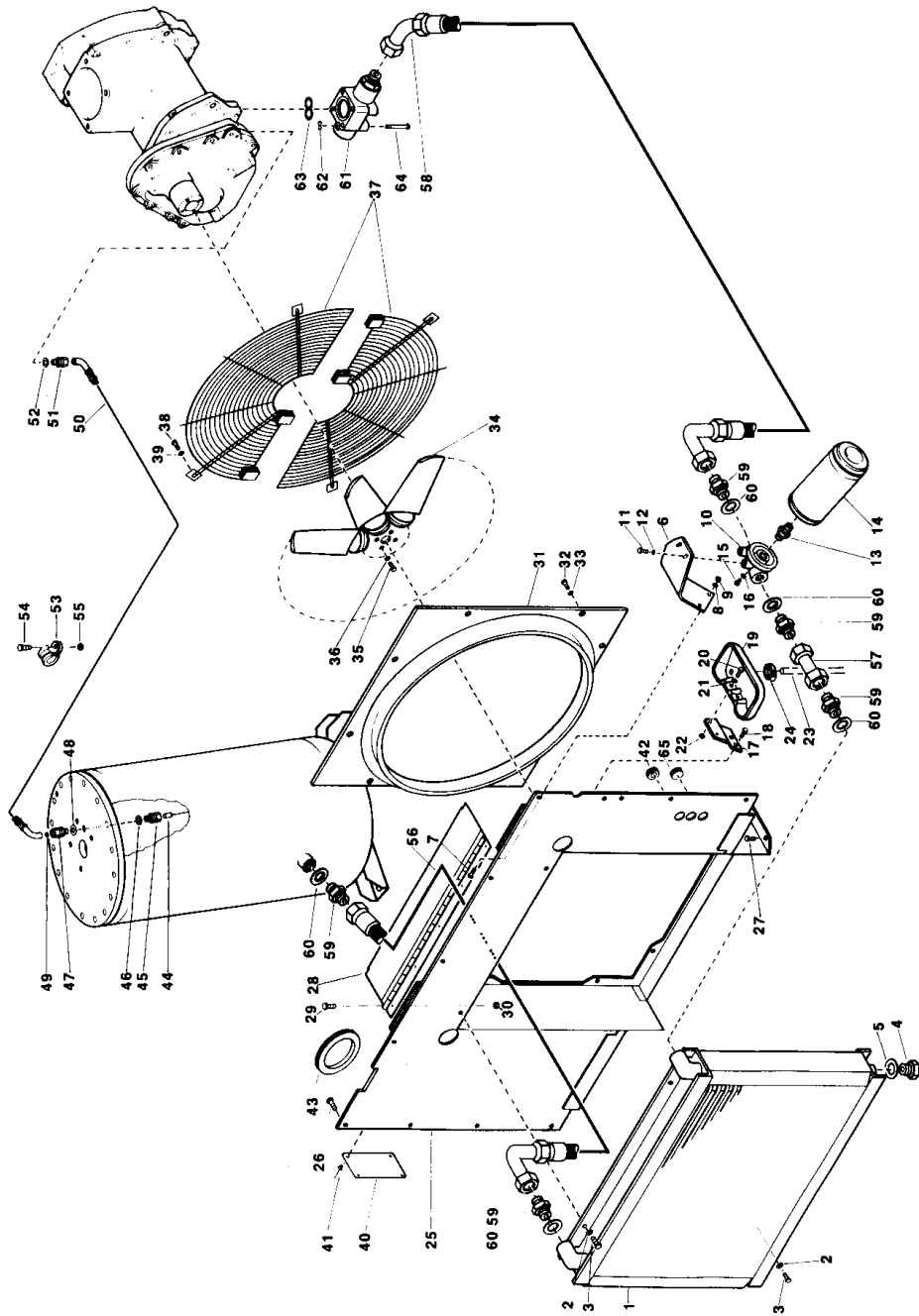


Air inlet  
Luchtinlaat  
Luftintag  
Lufteinlaß  
Admission d'air  
Entrada de aire  
Presa d'aria

Ref.	A	B	C	D	Designation	Ref.	A	B	C	D	Designation
-	2252 6180 00		1(3).....	1	Air filter	31	1613 1368 01		1)2)4).....	1	- Hose
	1616 4445 00		2)4).....		- "		1616 3464 00		3).....	1	- Cap
1	***	•		1	Housing	32					Hose clip
2	2900 0218 00	•	1(3).....	1	Cyclone		0347 4052 15		1)2)4).....	2	- "
	2900 0219 00		2)4).....		- "		0347 4370 00		3).....	1	- "
3	1619 2798 00	•		1	Element	33	1616 4853 00		3).....	1	- Support
	1619 2799 00		1)3).....		- "	34	1619 2766 02		3).....	4	- Bolt
			2)4).....		- "	35	0333 3227 00		3).....	4	- Lockwasher
4	1619 3193 00	•		1	Cover	36	0266 2110 00		3).....	8	- Nut
	1619 3195 00		1)3).....		- "		1619 5041 00		3).....	1	- Air filter
5	1619 3192 00	•		2	Clamp	37	***	•		1	Housing
6	1619 3191 00	•		1	Cover		38 2900 0217 00	•		1	Cyclone
	1619 3194 00		1)3).....		- "	39	1619 2847 00	•		1	Element
7	1619 3930 00	•		1	Nut	40	1619 3733 00	•		1	Cover
8	1616 4551 00			2	Support	41	1619 3730 00	•		2	Clamp
9	1616 4865 00		1)3).....	4	- Spacer	42	1619 3732 00	•		1	Cover
10	1616 4858 00		3).....	1	- Support	43	1619 3731 00	•		1	Nut
11	1619 2739 00			1	Support	44	1619 2705 00		3).....	1	- Support
	1619 2737 00		2)4).....		- "	45	0147 1398 03		3).....	2	- Bolt
12	0147 1321 03			2	Bolt	46	0301 2358 00		3).....	2	- Washer
13	0301 2335 00			4	Washer	47	0333 3237 00		3).....	2	- Lockwasher
14	0266 2110 00			2	Nut	48	0266 2112 00		3).....	2	- Nut
15	0147 1365 03		1).....	4	- "	49	1614 4346 00		3).....	1	- Elbow
	0147 1365 03		3).....	2	- "	50	1616 4854 00		3).....	1	- Pipe
	0147 1366 03		3).....	2	- "	51	0347 6115 00		3).....	2	- Hose clip
	0147 1360 03		2)4).....	4	- "	52	1616 4855 00		3).....	1	- Elbow
16	0301 2344 00			8	Washer	53	0347 4377 00		3).....	2	- Hose clip
17	0266 2111 00			4	Nut	54	1619 3790 01		3).....	1	- Warning device
18	1616 4552 00		1)3).....	1	Air duct	55	1619 3794 00		3).....	1	- Felt disc
	1616 4553 00		2)4).....		- "	56	0657 5742 00		3).....	1	- Gasket
19	0147 1322 03			2	Bolt	57	1619 2766 00		3).....	1	- Bolt
20	0300 8005 00			2	Washer	58	0147 1362 03		3).....	2	- Bolt
21	1619 6838 00			2	Nut	59	0333 3232 00		3).....	2	- Lockwasher
22	1619 3790 01			1	Warning device	60	***		3).....	1	- Oil filter
23	1619 3794 00			1	Felt disc	61	1202 7024 00		1,2.....	1	Gasket
24	0657 5742 00			1	Gasket	62	0147 1363 03			4	Bolt
25	1612 2152 00			1	Nipple	63	0301 2344 00			4	Washer
26	0653 1046 00		1.....	1	Gasket						
27	---			1	Unloading valve	1	Kit 2910 3035 00				
28	2250 9578 00		1)3).....	1	Hump hose	2	Kit 2910 4046 00				
	2250 8002 00		2)4).....		- "		1) XA(S)90DdA, XA(S)125Dd				
29	0347 4411 00			1	Hose clip		2) XA125DdA, XA(S)175Dd				
30	0347 4399 00		1)3).....	1	Hose clip		3) XA175DdA				
	0347 4411 00		2)4).....		- "		4) XAH(S)125Dd				

1611 4608 90 01/1611 4608 92 02/1611 4661 65 05/  
1611 4661 90 01/1611 4661 92 01/1616 4445 00 01/  
1619 5041 00 01/2252 6180 00 01  
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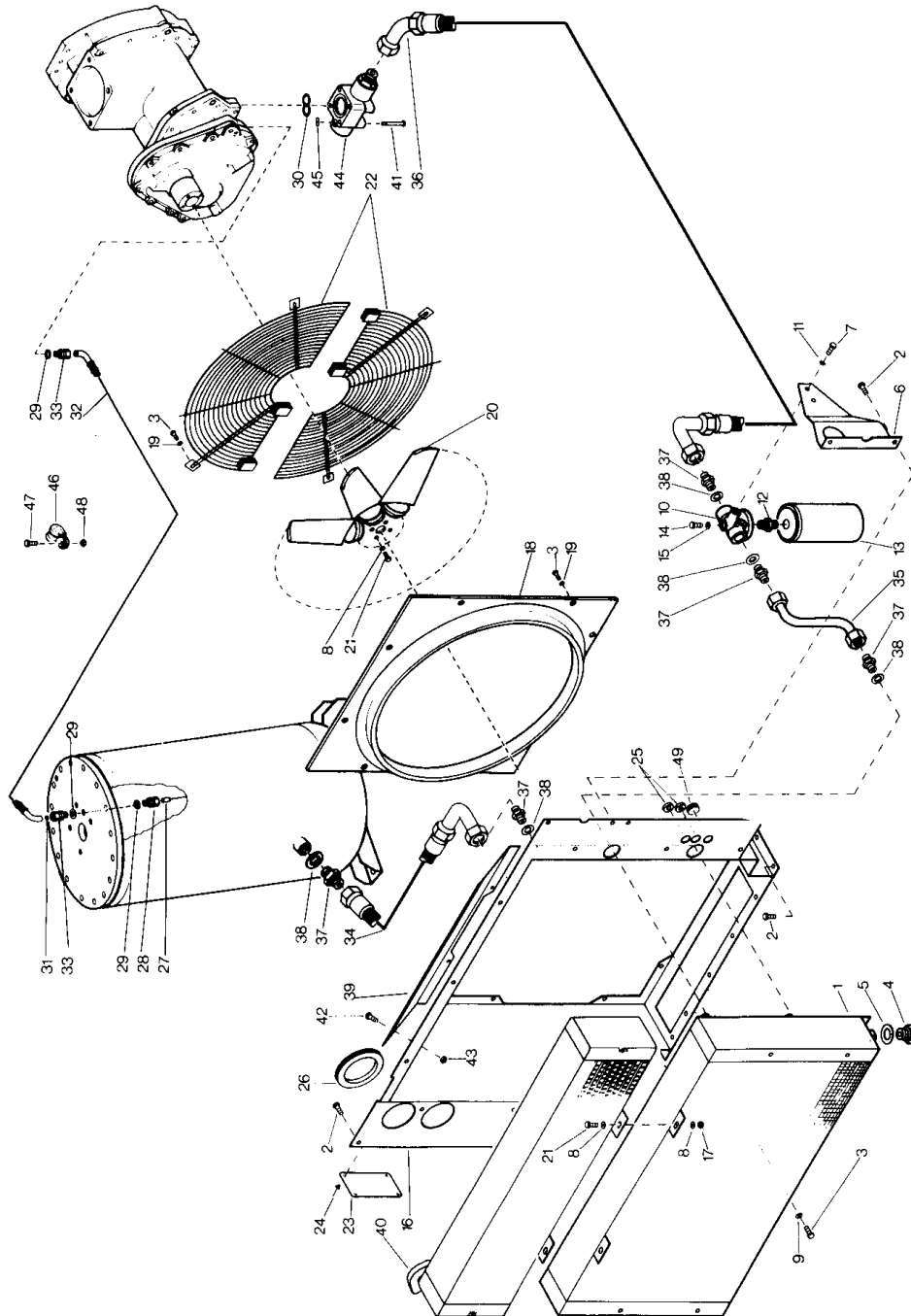




Oil system and cooling  
 Oliesysteem en koeling  
 Oljesystem och kylning  
 Ölkreislauf und Kühlung  
 Système d'huile et refroidissement  
 Sistema de aceite y refrigeración  
 Sistema dell'olio e raffreddamento

Ref.	A	B	C	D	Designation	Ref.	A	B	C	D	Designation
1	1615 4647 00			1	Oil cooler	29	0147 1244 03			5	Bolt
					- XA(S)90DdA,	30	0291 1108 00			5	Lock nut
					XA(S)125Dd	31	1616 4489 00			1	Fan ring
	1616 5025 00				- XA125DdA,	32	1619 5337 01			4	Bolt
					XA(S)175Dd,	33	1616 3286 00			4	Washer
					XA175DdA	34	1616 4491 01			1	Fan
	1615 4389 00				- XAH(S)125Dd	x	2900 1014 00			10	Fan blade
2	0300 8005 00			4	Washer	35	0147 1325 03			4	Bolt
3	1619 5337 01			4	Bolt	36	0301 2335 00			4	Washer
4	0686 4204 00			2	Plug	37	1616 4787 00			2	Screen
5	0661 1033 00			2	Gasket	38	1619 5337 01			4	Bolt
6	1616 4611 00			1	Support	39	1616 3286 00			4	Washer
7	0147 1323 03			2	Bolt	40	1091 1204 00			1	Patent plate
8	0301 2335 00			2	Washer	41	0129 3103 00			4	Rivet
9	0266 2110 00			2	Nut	42	0698 0156 00			2	Bushing
10	1612 2668 00			1	Housing	43	1202 8009 00			1	Ring
11	0147 1323 03			2	Bolt	44	1616 5147 00			1	Pipe
12	0333 3227 00			2	Lock washer	45	0581 0028 01			1	Pipe coupling
13				1	Nipple	46	0653 1062 00		2	1	Gasket
	2254 7257 00				- XAH(S)125Dd	47	0581 0000 52			1	Pipe coupling
	1619 3770 00				- XA(S)90DdA,	48	0653 1062 00		2	1	Gasket
					XA(S)125Dd,	49	1613 2609 07			1	Restrictor
					XA125DdA,	50	0574 8461 38			1	Hose assembly
					XA(S)175Dd,	51	0581 0000 52			1	Pipe coupling
					XA175DdA	52	0653 1062 00		1,2	1	Gasket
14				1	Oil filter	53				1	Clamp
	1202 8040 00				- XAH(S)125Dd		1613 0802 00				- 2 x 13
	1613 6105 00				- XA(S)90DdA,		1613 0803 02				- 3 x 13
					XA(S)125Dd,	54	0147 1246 03			2	Bolt
					XA125DdA,	55	0266 2108 00			2	Nut
					XA(S)175Dd,	56	0575 0125 24			1	Hose assembly
					XA175DdA	57	1616 4610 00			1	Pipe
15	0686 4201 03			1	Plug	58	0575 0125 31			1	Hose assembly
16	0653 1046 00			1	Gasket	59	1619 5509 00			5	Nipple
17	1616 4786 00			1	Support	60	0661 1038 00		2	5	Gasket
18	1619 2766 00			2	Bolt	61	- - -			1	Oil stop valve
19	1616 2770 00			1	Tray	62	0663 3120 00		1,3	1	O-ring
20	0147 1247 03			2	Bolt	63	0663 7135 00		1,3	1	O-ring
21	0301 2321 00			2	Washer	64	0147 1336 03			4	Bolt
22	0291 1108 00			2	Lock nut	65	1619 5225 00			1	Plug
23	0099 9910 28			AR	Hose						
24	0347 0104 00			1	Hose clip	1	Kit 2910 4046 00				
25				1	Fan housing	2	Kit 2910 6007 00				
	1615 4273 00				- XA(S)90DdA,	3	Kit 2910 3009 00				
					XA(S)125Dd	1)	To be lined with foam plastic / Te bekleden met schuimrubber /				
	1616 4487 00				- XA175Dd		Skall kläs med skumplast / Auskleiden mit Schaumgummi /				
	1616 4487 00		1)		- XAS175Dd,		A garnir avec du caoutchouc mousse /				
					XA125DdA,		Revestir de goma espuma / Da rivestira con plastica espansa				
					XA175DdA,		1619 6138 01 (AR)				
					XAH(S)125Dd						
26	1619 2766 00			12	Bolt						
27	1619 2766 00			4	Bolt						
28				1	Door						
	1615 4425 00				- XA(S)90DdA,						
					XA(S)125Dd						
	1616 4894 00				- XA(S)175Dd,						
					XA125DdA,						
					XA175DdA,						
					XAH(S)125Dd						

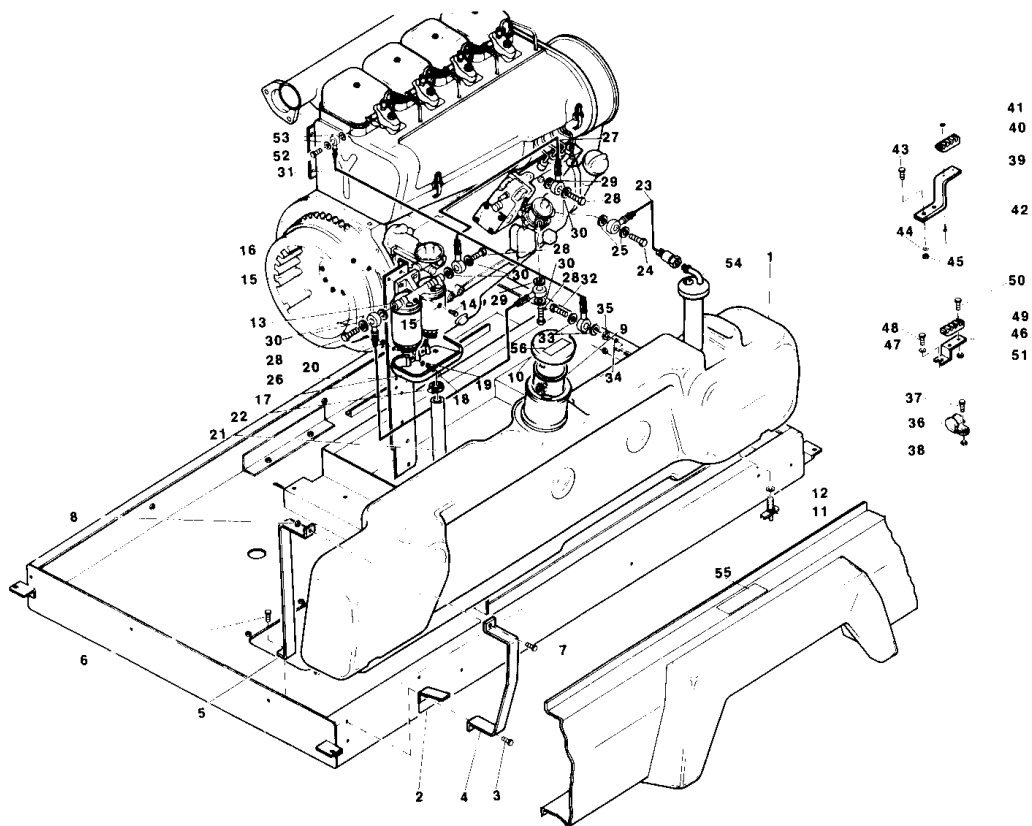
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Oil system and cooling 3)  
 Oliesysteem en koeling  
 Oljesystem och kylning  
 Ölkreislauf und Kühlung  
 Système d'huile et refroidissement  
 Sistema de aceite y refrigeración  
 Sistema dell'olio e raffreddamento

Ref.	A	B	C	D	Designation	Ref.	A	B	C	D	Designation
1	1615 4590 00			1	Oil cooler	38	0661 1038 00		2	5	Gasket
2	1619 2766 00			AR	Bolt	39	1615 4601 00			1	Door
3	1619 5337 01			10	Bolt	40	- - -		2)	1	Aftercooler
4	0686 4204 00			1	Plug	41	0147 1336 03			4	Bolt
5	0661 1033 00			1	Gasket	42	0147 1244 03			5	Bolt
6	1613 6492 00			1	Support	43	0291 1108 00			5	Lock nut
7	0147 1323 03			2	Bolt	44	- - -			1	Oil stop valve
8	0301 2335 00			8	Washer	45	0663 3120 00		1,3	1	O-ring
9	0300 8005 00			2	Washer	46				1	Clamp
10	1612 2668 00			1	Housing		1613 0802 00				- 2 x 13
11	0333 3227 00			2	Lock washer		1613 0803 02				- 3 x 13
12	2254 7257 00			1	Nipple	47	0147 1246 03			2	Bolt
13	1202 8040 00			1	Oil filter	48	0266 2108 00			2	Nut
14	0686 4201 03			1	Plug	49	1619 5225 00			1	Plug
15	0653 1046 00			1	Gasket						
16	1615 4597 00		1)	1	Fan housing	1	Kit 2910 4046 00				
17	0291 1110 00			2	Nut	2	Kit 2910 6007 00				
18	1616 4489 00			1	Fan ring	3	Kit 2910 3009 00				
19	1616 3286 00			8	Washer	1)	To be lined with foam plastic / Te bekleden met schuimrubber /				
20	1616 4491 01			1	Fan		Skall kläs med skumplast / Auskleiden mit Schaumgummi /				
x	2900 1014 00			10	Fan blade		A garnir avec du caoutchouc mousse /				
21	0147 1325 03			6	Bolt		Revestir de goma espuma / Da rivestira con plastica espansa				
22	1616 4787 00			2	Screen		1619 6138 01 (AR)				
23	1091 1204 00			1	Patent plate	2)	See "Air receiver and delivery pipes" /				
24	0129 3103 00			4	Rivet		Zie "Luchtketel en persleidingen" /				
25	0698 0156 00			2	Bushing		Se "Luftbehållare och utloppsror" /				
26	1202 8009 00			1	Ring		Siehe "Luftbehälter und Druckrohre" /				
27	1616 5147 00			1	Pipe		Voir "Réservoir d'air et tuyaux de refoulement" /				
28	0581 0028 00			1	Pipe coupling		Véase "Depósito de aire y tubos de descarga" /				
29	0653 1062 00		1,2	3	Gasket		Vedere "Serbatoio dell'aria e tubi della mandata" /				
30	0663 7135 00		1,3	1	O-ring	3)	With aftercooler / Met nakoeler / Med efterkylare /				
31	1613 2609 07			1	Restrictor		Mit Nachkühler / Avec refroidisseur final /				
32	0574 8461 38			1	Hose assembly		Con refrigerador posterior / Con refrigeratore finale				
33	0581 0000 52			2	Pipe coupling						
34	0575 0365 38			1	Hose assembly						
35	1615 4596 00			1	Pipe						
36	0575 0125 31			1	Hose assembly						
37	1619 5509 00			5	Nipple						

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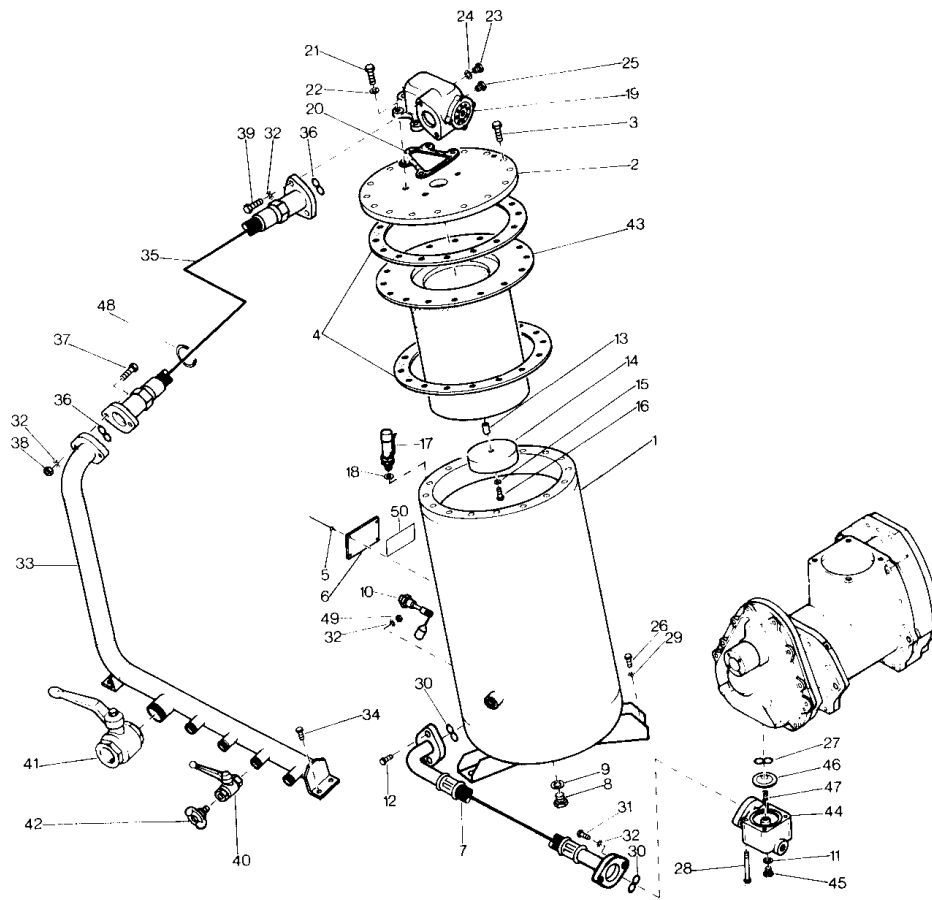


Fuel system  
 Brandstofsysteem  
 Bränslesystem  
 Kraftstoffsystem  
 Système de combustible  
 Sistema de combustible  
 Sistema del carburante

Ref.	A	B	C	D	Designation	Ref.	A	B	C	D	Designation
1	1202 5355 00			1	Fuel tank	40	1613 2684 00	•		1	Support
2	1614 4308 00			2	Bracket	41	0301 2318 00	•		2	Washer
3	1619 5337 01			4	Bolt	42	0129 3177 00	•		2	Rivet
4	1614 4296 02			2	Strap	43	0147 1321 03			2	Bolt
5	1614 4296 03			2	Strap	44	0333 3227 00			2	Lock washer
6	1619 2766 00			2	Bolt	45	0266 2110 00			2	Nut
7	0147 1329 03			2	Bolt	46	1616 3342 00			1	Support
8	0291 1110 00			2	Lock nut	47	0301 2335 00			1	Washer
9	1619 6590 00			1	Strainer	48	0147 1321 03			1	Bolt
10	1619 6591 00			1	Cover	49	1613 2684 00			1	Support
11	0858 1101 02			1	Drain cock	50	0160 6081 00			2	Screw
12	0661 1025 00			1	Gasket	51	0266 2108 00			2	Nut
13	1619 6532 00			1	Fuel filter	52	***		1)	1	Pressure screw
x	***	•		1	Head	53	***		1)	2	Gasket
x	2900 0687 00	•		2	Filter element	54	1619 7738 03			1	Level gauge
x	1619 5004 00	•		2	Drain screw	x	0663 2103 94	•		1	O-ring
x	1619 5005 00	•		2	Gasket	55				1	Label
14	0147 1365 03			2	Bolt		1614 4956 00				- English
15	0301 2344 00			4	Washer		1079 9902 32				- Dutch
16	0266 2111 00			2	Nut		1079 9902 33				- Swedish
17	1616 2770 00			1	Tray		1079 9902 34				- German
18	0147 1247 03			2	Bolt		1079 9902 35				- French
19	0301 2321 00			2	Washer		1079 9902 36				- Spanish
20	0291 1108 00			2	Lock nut		1079 9902 37				- Italian
21	0099 9910 28			AR	Hose	56				1	Label
22	0347 0104 00			1	Hose clip		1612 4264 00				- English
23	0574 9332 11			1	Hose assembly		1079 9912 92				- Dutch
24	0627 4209 03			1	Pressure screw		1079 9912 93				- Swedish
25	0661 1023 00			2	Gasket		1079 9912 94				- German
26	0574 9712 42			1	Hose assembly		1079 9912 95				- French
27	0574 9712 38			1	Hose assembly		1079 9912 96				- Spanish
28	0627 4209 03			4	Pressure screw		1079 9912 97				- Italian
29	0661 1023 00			2	Gasket						
30	0653 1072 00			6	Gasket						
31	0574 9721 37			1	Hose assembly						
32	0627 4200 05			1	Pressure screw						
33	0661 1023 00			2	Gasket						
34	1614 4981 00			1	Washer						
35	1614 4982 00			1	Washer						
36	1613 0803 02			1	Clamp						
37	0147 1246 03			1	Bolt						
38	0266 2108 00			1	Nut						
x	1614 3716 80		2)	1	Clamping						
39	1614 3716 00	•		1	Bracket						

- 1) Engine part / Motoronderdeel / Motorreservdel / Motorteil /  
 Pièce moteur / Parte, motor / Parte del motore  
 2) Not for XAH(S)125Dd / Niet voor XAH(S)125Dd /  
 Inte för XAH(S)125Dd / Nicht für XAH(S)125Dd /  
 Pas pour XAH(S)125Dd / No para XAH(S)125Dd /  
 Non per XAH(S)125Dd

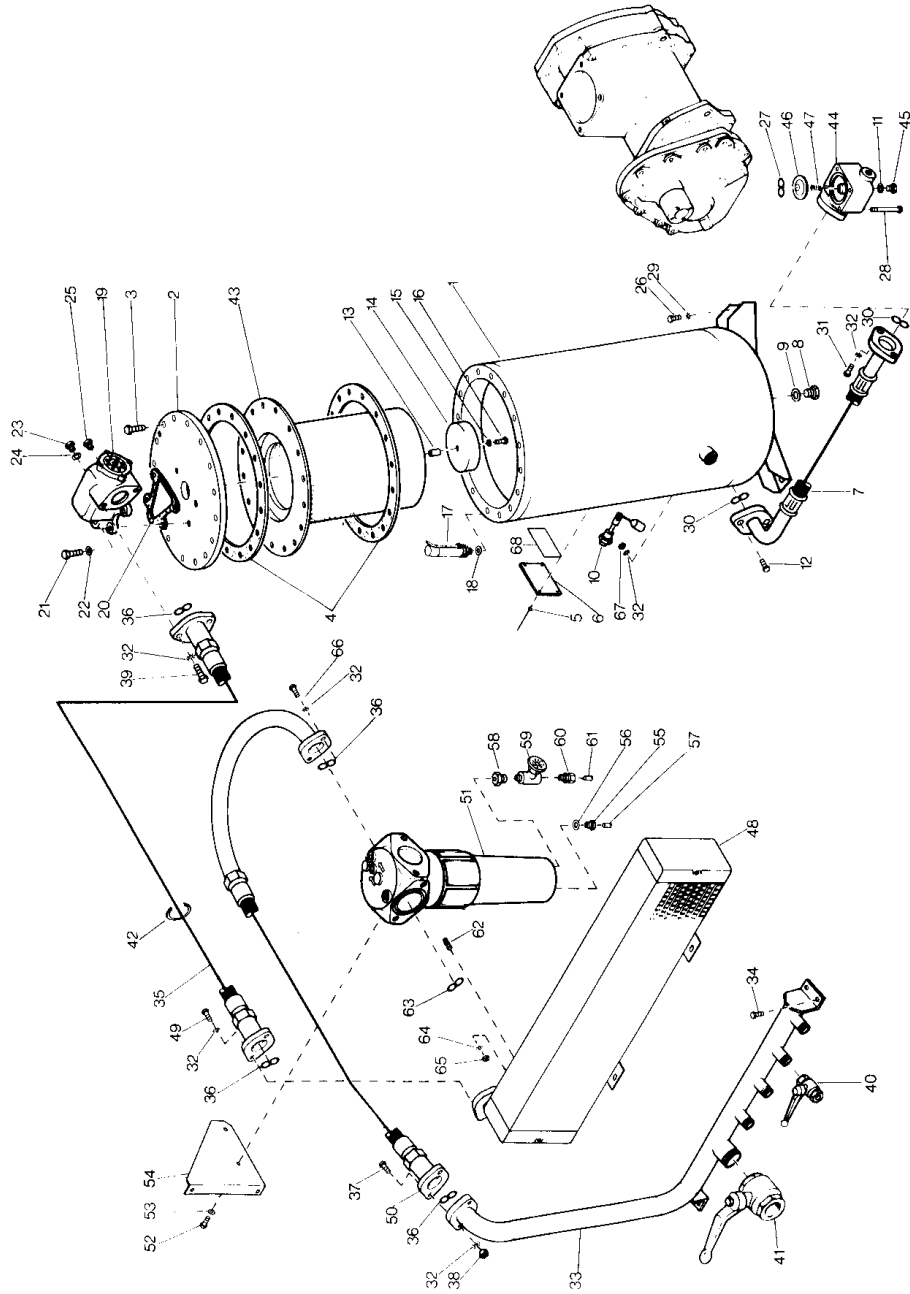
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 1619 6532 00 01  
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Air receiver and delivery pipes  
 Luchtketel en persleidingen  
 Luftbehållare och utloppsrör  
 Luftbehälter und Druckrohre  
 Réservoir d'air et tuyaux de refoulement  
 Depósito de aire y tubos de descarga  
 Serbatoio dell'aria e tubi della mandata

Ref.	A	B	C	D	Designation	Ref.	A	B	C	D	Designation
-	1613 6258 80		L	1	Air receiver	22	0653 1046 00		2,3	4	Gasket
	1613 6258 83		T		- "	23	0605 8828 05			1	Reducer
	1613 6409 84		Ta		- "	24	0653 1189 00		3	1	Gasket
	1613 6258 89		S		- "	25	0686 6130 00			1	Plug
	1613 6258 87		An		- "	26	0147 1475 03			3	Bolt
	1613 6409 87		3)-An		- "	27	0663 7138 00		1	1	O-ring
	1613 6258 86		Sa		- "	28	0147 1373 03			4	Bolt
	1613 6258 85		D		- "	29	0333 3244 00			3	Lock washer
	1613 6489 82		As		- "	30	0663 7135 00		2	2	O-ring
1	***			1	Vessel	31	0147 1401 03			2	Bolt
2				1	Cover	32	0333 3237 00		2,3	4	Lock washer
	1616 4733 00		(As)		- "	33	1616 4617 00			1	Manifold
	1616 4748 00		3)-(An)		- "	34	1619 2766 00			4	Bolt
	1616 4748 00		(D)		- "	35				1	Hose assembly
	1613 6399 00				- "		1616 4619 02				- XA(S)90DdA, XA(S)125, XA175, XA175DdA
3				16	Bolt		1616 4619 01				- XAS175, XA125DdA, XAH(S)125
	0147 1479 17		(T)		- "						
	0147 1479 20		(An)		- "						
	0147 1958 02		(As)		- "						
	0147 1479 03				- "						
4	1202 7007 00		2	2	Gasket	36	0663 9868 00		2,3	2	O-ring
5	0129 3115 00			4	Blind rivet	37	0147 1404 03			2	Bolt
6				1	Data plate	38	0266 2112 00			2	Nut
	1613 0910 13		(L)		- "	39	0147 1402 03			2	Bolt
	1613 0910 16		(T,Ta)		- "	40	1619 6153 05			4	Valve
	1613 0910 21		(D)		- "	41	1619 6153 08			1	Valve
	1613 0910 22		(Sa)		- "	42				4	Coupling
	1613 0910 14		(An)		- "		9000 0302 00		1)		- "
	1613 0910 15		(S)		- "		1310 1365 00		1)(As)		- "
	1613 5420 00		As		- "	43	1616 4656 00			1	Oil separator
7	1613 6495 00			1	Hose assembly	44	1202 6566 00			1	Housing
8	0686 4206 00			1	Plug	45	0686 4204 00			1	Plug
9	0661 1038 00		2	1	Gasket	46	1202 6456 00			1	Non return valve
10	1616 5108 00			1	Level gauge	47	1613 5165 00			1	Spring
11	0661 1033 00		2	1	Gasket	48	1619 2795 00			AR	Seal
12	0147 1405 03			2	Bolt	49	0266 2112 00			2	Nut
13	1616 4891 00			1	Spacer	50	1079 9916 80			1	Label
14	1612 2607 00			1	Cover						
15	0301 2335 00			1	Washer						
16	0147 1328 03			1	Bolt						
17				1	Safety valve	1	Kit 2910 4046 00				
	0830 1006 22		T		- 9.3 bar(e)	2	Kit 2910 6007 00				
	0830 1005 20		An		- 9.3 bar(e)	3	Kit 2910 3029 00				
	0830 1005 35		An		- 15 bar(e)-XAH(S)	1)	Not for XAH(S) / Niet voor XAH(S) / Inte för XAH(S) /				
	0830 1005 25		As		- 135 psig		Nicht für XAH(S) / Pas pour XAH(S) / No para XAH(S) /				
	0830 1005 40		As		- 210 psig-XAH(S)		Non per XAH(S)				
	0830 1006 43		T		- 15 bar(e)-XAH(S)	2)	Not for An / Niet voor An / Inte för An / Nicht für An /				
18	0653 1165 00		3-2)	1	- Gasket		Pas pour An / No para An / Non per An				
19	---			1	Min. press. vlv.	3)	XAH(S)125-Italy				
20	1202 9973 00		2,3	1	Gasket						
21	0147 1363 03			4	Bolt						

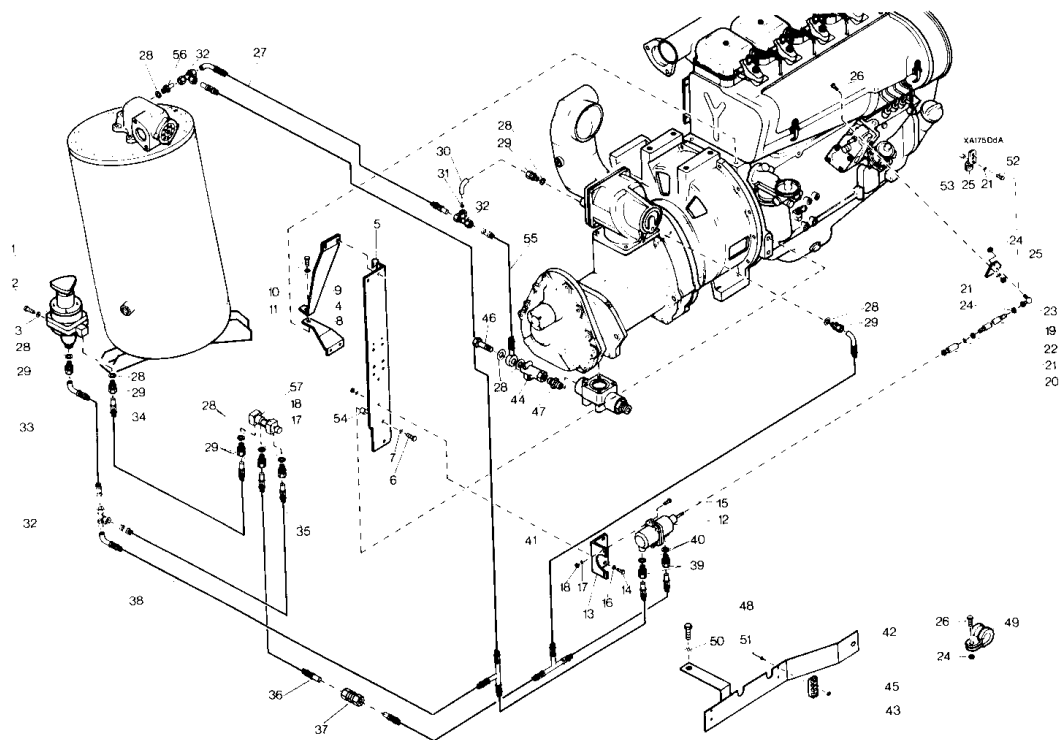




**Air receiver and delivery pipes 1)**  
**Luchtketel en persleidingen**  
**Luftbehållare och utloppsrör**  
**Luftbehälter und Druckrohre**  
**Réservoir d'air et tuyaux de refoulement**  
**Depósito de aire y tubos de descarga**  
**Serbatoio dell'aria e tubi della mandata**

Ref.	A	B	C	D	Designation	Ref.	A	B	C	D	Designation
-	1613 6258 80			1	Air receiver	28	0147 1373 03			4	Bolt
	1613 6258 83	L		-	"	29	0333 3244 00			3	Lock washer
	1613 6409 84	T		-	"	30	0663 7135 00	2		2	O-ring
	1613 6258 89	S		-	"	31	0147 1401 03			2	Bolt
	1613 6258 87	An		-	"	32	0333 3237 00	2,3		8	Lock washer
	1613 6409 87	3)-An		-	"	33	1616 4617 00			1	Manifold
	1613 6258 86	Sa		-	"	34	1619 2766 00			4	Bolt
	1613 6258 85	D		-	"	35	1615 4599 00			1	Hose assembly
	1613 6489 82	As		-	"	36	0663 9868 00	2,3		4	O-ring
1	1613 6489 82	As		1	Vessel	37	0147 1404 03			2	Bolt
2	1616 4733 00	(As)		1	Cover	38	0266 2112 00			4	Nut
	1616 4748 00	3)-(An)		-	"	39	0147 1402 03			2	Bolt
	1616 4748 00	(D)		-	"	40	1619 6153 05			4	Valve
	1613 6399 00			-	"	41	1619 6153 08			1	Valve
3	0147 1479 17	(T)		16	Bolt	42	1619 2795 00			AR	Seal
	0147 1479 20	(An)		-	"	43	1616 4656 00			1	Oil separator
	0147 1958 02	(As)		-	"	44	1202 6566 00			1	Housing
	0147 1479 03			-	"	45	0686 4204 00			1	Plug
4	1202 7007 00	2		2	Gasket	46	1202 6456 00			1	Non return valve
5	0129 3115 00			4	Blind rivet	47	1613 5165 00			1	Spring
6	1613 0910 13	(L)		1	Data plate	48	1615 4591 00			1	Aftercooler
	1613 0910 16	(T, Ta)		-	"	49	0147 1403 03			2	Bolt
	1613 0910 21	(D)		-	"	50	1615 4598 01			1	Hose assembly
	1613 0910 22	(Sa)		-	"	51	1619 7472 06			1	Moisture trap
	1613 0910 14	(An)		-	"	x	2900 1017 00	•		1	Drain valve
	1613 0910 15	(S)		-	"	x	0663 2101 71	••		1	O-ring
	1613 5420 00	As		-	"	52	0147 1362 03			2	Bolt
7	1613 6495 00			1	Hose assembly	53	0301 2344 00			2	Washer
8	0686 4206 00			1	Plug	54	1615 4600 00			1	Support
9	0661 1038 00	2		1	Gasket	55	9090 1512 00			1	Pipe coupling
10	1616 5108 00			1	Level gauge	56	0653 1062 00			1	Gasket
11	0661 1033 00	2		1	Gasket	57	0070 7250 05			AR	Hose
12	0147 1405 03			2	Bolt	58	0605 8300 35			1	Bushing
13	1616 4891 00			1	Spacer	59	1619 7336 00			1	Drain valve
14	1612 2607 00			1	Cover	60	9090 1507 00			1	Pipe coupling
15	0301 2335 00			1	Washer	61	0070 7250 04			AR	Hose
16	0147 1328 03			1	Bolt	62	0246 1238 04			2	Stud
17	0830 1006 22	T		1	Safety valve	63	0663 7136 00			1	O-ring
	0830 1005 20	An		-	9.3 bar(e)	64	0333 3232 00			2	Lock washer
	0830 1005 35	An		-	15 bar(e)-XAH(S)	65	0266 2111 00			2	Nut
	0830 1005 25	As		-	135 psig	66	0147 1364 03			2	Bolt
	0830 1005 40	As		-	210 psig-XAH(S)	67	0266 2112 00			2	Nut
	0830 1006 43	T		-	15 bar(e)-XAH(S)	68	1079 9916 80			1	Label
18	0653 1165 00	3-2)		1	Gasket	1	Kit 2910 4046 00				
19	1202 9973 00	2,3		1	Min. press. vlv.	2	Kit 2910 6007 00				
20	0147 1363 03			4	Gasket	3	Kit 2910 3029 00				
21	0653 1046 00	2,3		4	Bolt	1)	With aftercooler / Met nakoeler / Med efterkylare / Mit Nachkühler / Avec refroidisseur final / Con refrigerador posterior / Con refrigeratore finale				
22	0605 8828 05			1	Gasket	2)	Not for An / Niet voor An / Inte för An / Nicht für An / Pas pour An / No para An / Non per An				
23	0653 1189 00	3		1	Reducer	3)	XAHS125-Italy				
24	0686 6130 00			1	Gasket						
25	0147 1475 03			3	Plug						
26	0663 7138 00	1		1	Bolt						
27				1	O-ring						

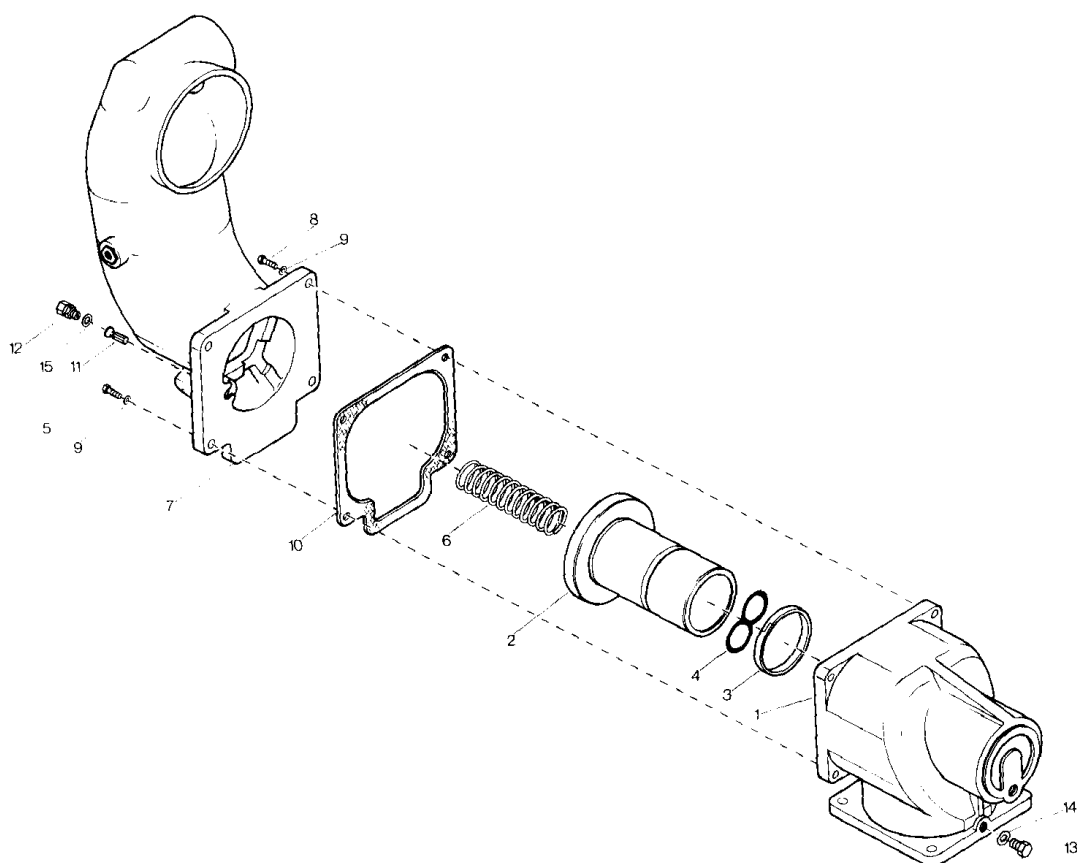
39\_177\_1\_0\_0



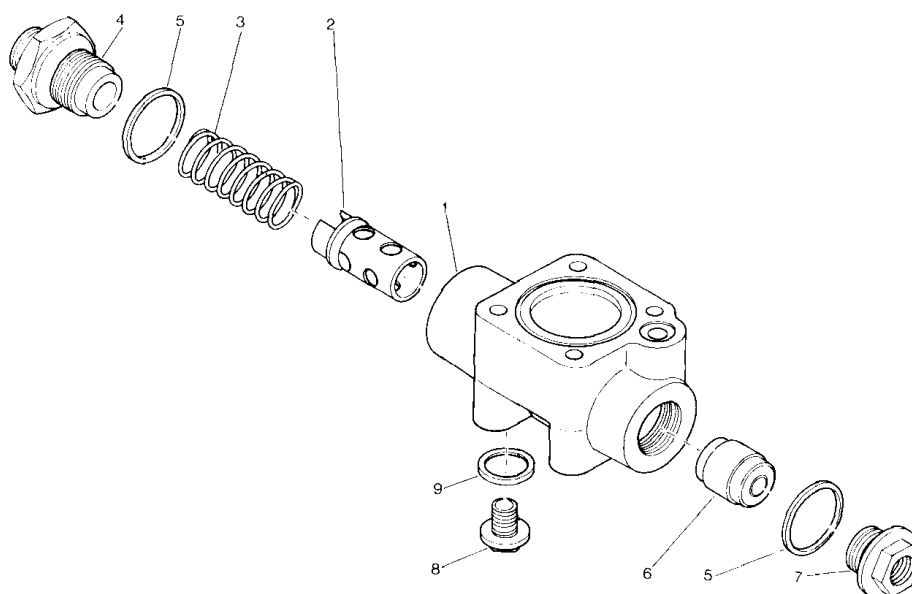
Connections for speed regulation and unloading  
 Aansluitingen tussen snelheidsregeling en ontlastsysteem  
 Anslutningar mellan varvtalsreglering och avlastningssystem  
 Anschlüsse für Drehzahlregelung und Entlastung  
 Connexions du système de régulation de vitesse et de décharge  
 Conexiones entre regulación de velocidad y sistema de descarga  
 Connessioni per la regolazione della velocità e la messa a vuoto

Ref.	A	B	C	D	Designation	Ref.	A	B	C	D	Designation
1	---			1	Regul. valve	31	1613 2609 05			1	Restrictor
2	0147 1359 03			2	Bolt	32	0581 2210 00			3	Tee
3	0301 2344 00			2	Washer	33	1404 1332 00			1	Hose assembly
4				1	Bracket	34	0574 8012 31			1	Hose assembly
	1616 3491 00	1)			- "	35	0574 8012 07			1	Hose assembly
	1616 2769 00				- "	36	0574 8012 05			1	Hose assembly
5	1619 2795 00			AR	Seal	37	0581 0808 00			1	Pipe coupling
6				2	Bolt	38	1614 4570 02			1	Hose assembly
	0147 1409 03	1)			- "	39	0581 0000 47			2	Pipe coupling
	0147 1403 03				- "	40	0653 1046 00	3		2	Gasket
7	0333 3237 00			2	Lock washer	41	1614 4571 02			1	Hose assembly
8	1614 2860 00			1	Stiffener	42	1616 4867 00			1	Bracket
9	1614 4414 00			1	Stiffener	43	1613 2684 00			2	Support
10	0147 1360 03			1	Bolt	44	9128 1308 01			1	Blow-down valve
11	0301 2344 00			1	Washer	45	0301 2315 00			4	Washer
12	---			1	Speed regulator	46	0627 5113 03			1	Press. screw
13	1613 2483 00			1	Bracket	47	0603 4102 03			1	Nipple
14	0147 1323 03			4	Bolt	48	0147 1475 03			1	Bolt
15	0147 1326 03			2	Bolt	49					Clamp
16	0301 2335 00			2	Washer		1613 0801 02			1	- 1 x 13
17	0333 3227 00	3		4	Lock washer		1613 0802 00			3	- 2 x 13
18	0266 2110 00			4	Nut		1613 0803 02			3	- 3 x 13
19				1	Link	50	0333 3244 00			1	Lock washer
	1613 1214 05				- XA(S)90DdA,	51	0129 3117 00			4	Pop rivet
					XA(S)125	52	0147 1249 03	1)		1	- Bolt
	1613 1214 07				- XA(S)175,	53	0324 1152 00	1)		1	- Spacer
					XA125DdA,	54	1616 3492 00	1)		2	- Spacer
					XAH(S)125,	55	0574 9012 13			1	Hose assembly
					XA175DdA	56	0580 0506 00			1	Pipe coupling
20	1202 5627 00			1	Ball joint	57	---			1	Loading valve
21	0333 3220 00			3	Lock washer						
22	0268 3204 00			1	Nut	1	Kit 2910 4046 00				
23	1619 1639 00			1	Ball joint	2	Kit 2910 6007 00				
24	0266 2108 00			10	Nut	3	Kit 2910 3006 00				
25				1	Plate	4	Kit 2910 3035 00				
	1616 3460 00	1)			- "	5	Kit 2910 3012 00				
	1613 2545 00				- "	6	Kit 2910 3007 00				
26	0147 1246 03			9	Bolt	1)	XA175 DdA				
27	0574 8102 27			1	Hose assembly						
28	0653 1062 00	1,2,4,5,6		AR	Gasket						
29	0581 0028 00			6	Pipe coupling						
30	1614 4815 00			1	Elbow						

26\_168\_2\_0\_0



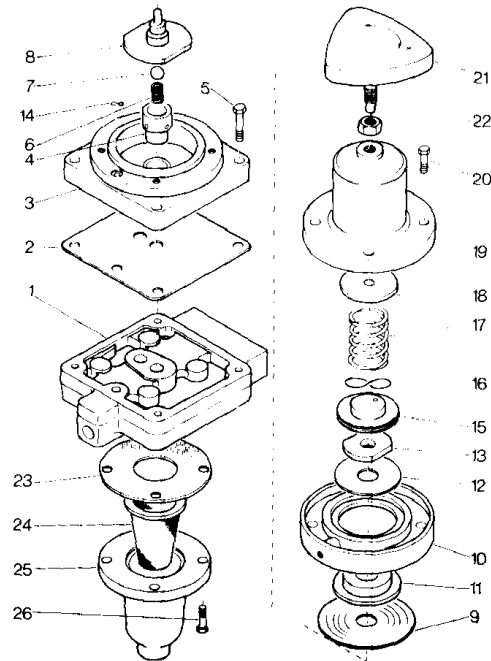
Ref.	A	B	C	D	Designation	Ref.	A	B	C	D	Designation
-	1614 4382 81		.....	1	Unl. valve	10	1202 7391 00	•	1.....	1	Gasket
1	***	•	.....	1	Housing	11	1613 2399 00	•	.....	1	Valve
2	1614 5062 00	•	.....	1	Valve	12	0581 0028 00	•	.....	1	Pipe coupling
-	1619 5531 00	•	1.....	1	Seal ring	13	0686 4201 00	•	.....	1	Plug
3	***	••	.....	1	Ring	14	0653 9038 00	•	1.....	1	Gasket
			.....		TFMA 70x68x7.3 -	15	0653 1062 00	•	1.....	1	Gasket
			.....		PTFE NBR Brons 552						
4	***	••	.....	1	O-ring	1	Kit 2910 3035 00				
5	0147 1330 12	•	.....	2	Bolt		1614 4382 81 01				
6	1613 3231 00	•	.....	1	Spring		22_066_0_0_2				
7	1616 4612 00	•	.....	1	Flange						
8	0147 1326 03	•	.....	2	Bolt						
9	0301 2335 00	•	.....	4	Washer						



Ref.	A	B	C	D	Designation
8	0686 4204 00	•	.....1		Plug
9	0661 1033 00	•	1.....1		Gasket
1	Kit 2910 3009 00				
1613	2355 82 02				
22_044_1_1_1					

Regulating valve  
 Regelventiel  
 Regleringsventil  
 Regelventil  
 Soupape de régulation  
 Válvula de regulación  
 Valvola di regolazione

XA(S)



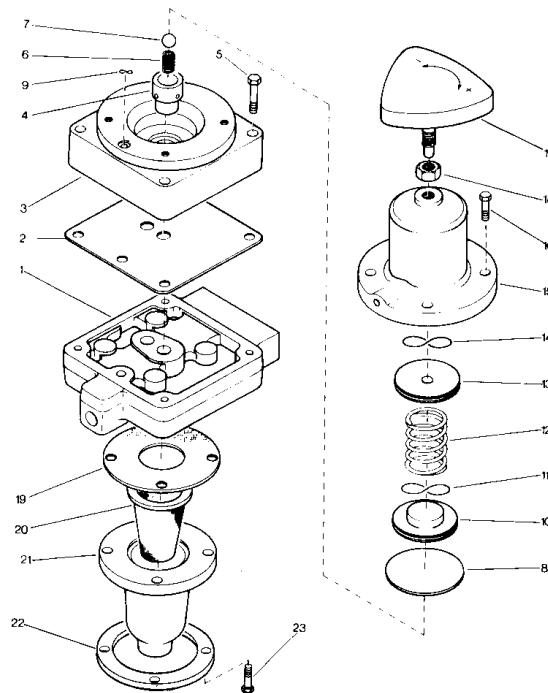
Ref.	A	B	C	D	Designation
-	2252 0495 80			1	Regul. valve
1	2252 0495 89	•		1	Base plate
2	2250 5843 00	•	1	1	Gasket
-	2250 5844 81	•		1	Seat
3	•	•		1	Housing
4	•	•		1	Ball cage
5	0147 1250 03	•		4	Bolt
6	2252 1427 00	•		1	Spring
7	0517 1420 00	•	1	1	Ball
8	2252 1135 00	•		1	Retainer
9	2250 5850 00	•	1	1	Membrane
10	2250 5849 00	•		1	Housing
11	2250 5848 00	•		1	Spacer
12	2250 5847 01	•	1	1	Membrane
13	2252 1136 00	•		1	Nut
14	0663 6112 00	•	1	1	O-ring
15	2250 5852 00	•		1	Guide

Ref.	A	B	C	D	Designation
16	0663 3132 00	•	1	1	O-ring
17	2252 1428 00	•		1	Spring
18	2250 5854 00	•		1	Seat
19	2250 5855 00	•		1	Cover
20	0144 3211 03	•		4	Bolt
21	2250 5856 02	•		1	Screw
22	0268 3205 00	•		1	Nut
23	2250 5842 00	•	1	1	Gasket
24	1012 0356 00	•	1	1	Filter
25	2250 5841 00	•		1	Housing
26	0147 1247 03	•		4	Bolt

# 1 Kit 2910 3012 00

2252 0495 80 03 / 2250 5844 81 01  
 24\_002\_1\_1\_3

Regulating valve  
 Regelventiel  
 Regleringsventil XAH(S)  
 Regelventil  
 Soupape de régulation  
 Válvula de regulación  
 Valvola di regolazione



Ref.	A	B	C	D	Designation
• 2252 0495 85			.....	1	Regul. valve
1 2252 0495 89	•	.....	.....	1	Base plate
2 2250 5843 00	•	1	.....	1	Gasket
• 2252 4055 80	•	.....	.....	1	Seat
3 ***	•	.....	.....	1	Housing
4 ***	•	.....	.....	1	Ball cage
5 0147 1250 03	•	.....	.....	4	Bolt
6 2252 4197 00	•	.....	.....	1	Spring
7 0517 1420 00	•	1	.....	1	Ball
8 2252 4060 00	•	1	.....	1	Membrane
9 0663 6112 00	•	1	.....	1	O-ring
10 2252 4058 00	•	.....	.....	1	Guide
11 0663 3132 00	•	1	.....	1	O-ring
12 2252 1428 00	•	.....	.....	1	Spring
13 2252 4059 00	•	.....	.....	1	Seat
14 0663 3131 00	•	1	.....	1	O-ring

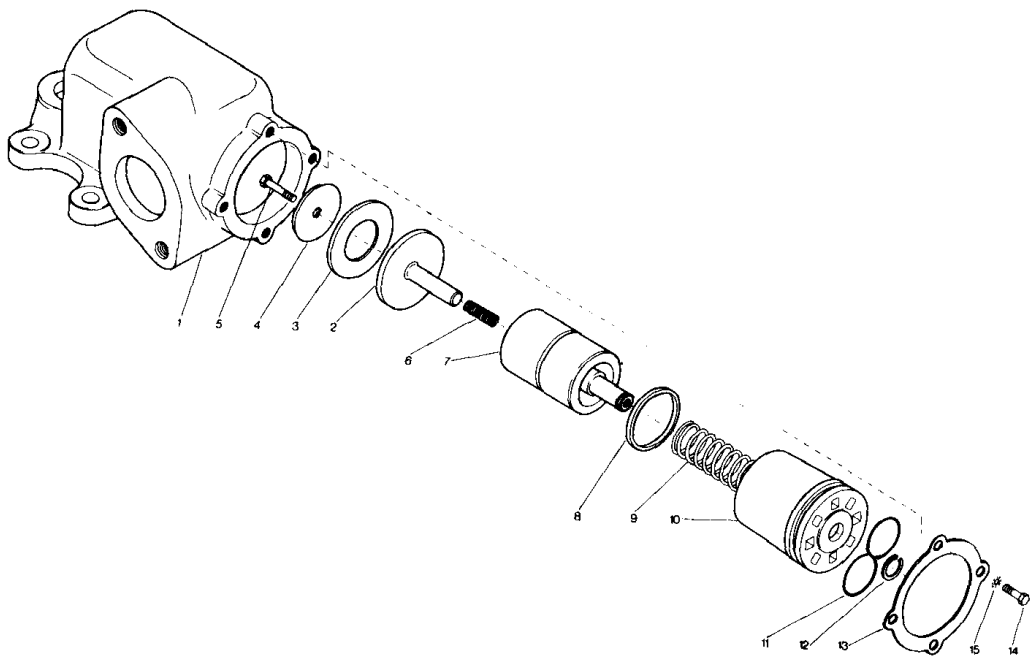
Ref.	A	B	C	D	Designation
15 2252 4056 80	•	.....	.....	1	Cover
16 0147 1247 03	•	.....	.....	4	Bolt
17 2250 5856 02	•	.....	.....	1	Screw
18 0268 3205 00	•	.....	.....	1	Nut
19 2250 5842 00	•	1	.....	1	Gasket
20 1012 0356 00	•	1	.....	1	Filter
21 2250 5841 00	•	.....	.....	1	Housing
22 2254 3391 00	•	.....	.....	1	Ring
23 0147 1248 03	•	.....	.....	4	Bolt

#### 1 Kit 2910 3005 00

2252 0495 85 03 / 2252 4055 80 01  
 24\_005\_3\_1\_0



Minimum pressure valve  
Minimumdrukventiel  
Minimitryckventil  
Mindestdruckventil  
Soupape à minimum de pression  
Válvula de presión mínima  
Valvola di minima pressione



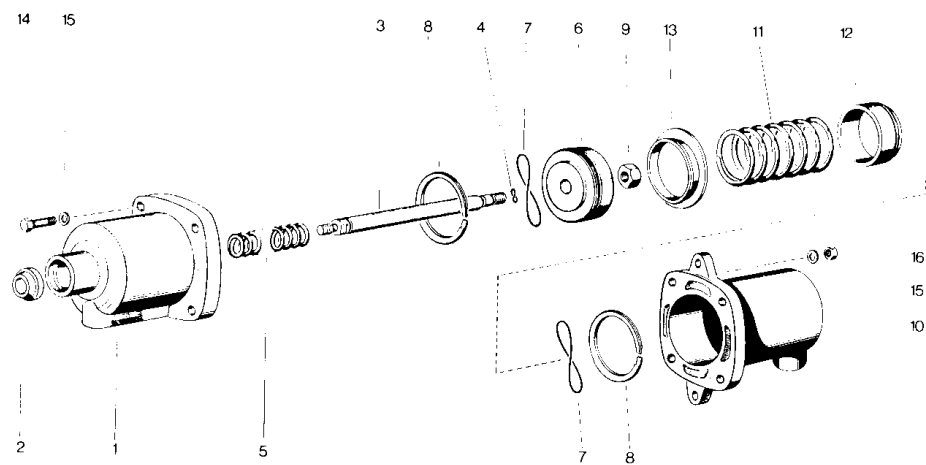
Ref.	A	B	C	D	Designation
-	1613 3219 80		.....	1	Minimum pressure valve
1	***	•	.....	1	Housing
2	1613 3221 00	•	.....	1	Valve
3	1613 3223 01	•	1 .....	1	Washer
4	1613 3222 00	•	.....	1	Washer
5	0147 1244 03	•	.....	1	Bolt
6	1612 4049 00	•	.....	1	Spring
7	1613 3220 00	•	.....	1	Piston
8	1619 6928 00	•	1 .....	1	Seal ring
9	1612 4048 00	•	.....	1	Spring
10	1613 2354 01	•	.....	1	Housing

Ref.	A	B	C	D	Designation
11	0663 7135 00	•	1 .....	1	O-ring
12	0335 3111 00	•	.....	1	Circlip
13	1613 3263 00	•	.....	1	Cover
14	0147 1246 03	•	.....	4	Bolt
15	0333 3220 00	•	1 .....	4	Lock washer

1 Kit 2910 3029 00

1613 3219 80 04  
22\_035\_0\_2\_3

Speed regulator  
Snelheidsregelaar  
Varvtalsregulator  
Drehzahlregler  
Régulateur de vitesse  
Regulador de velocidad  
Regolatore di velocità



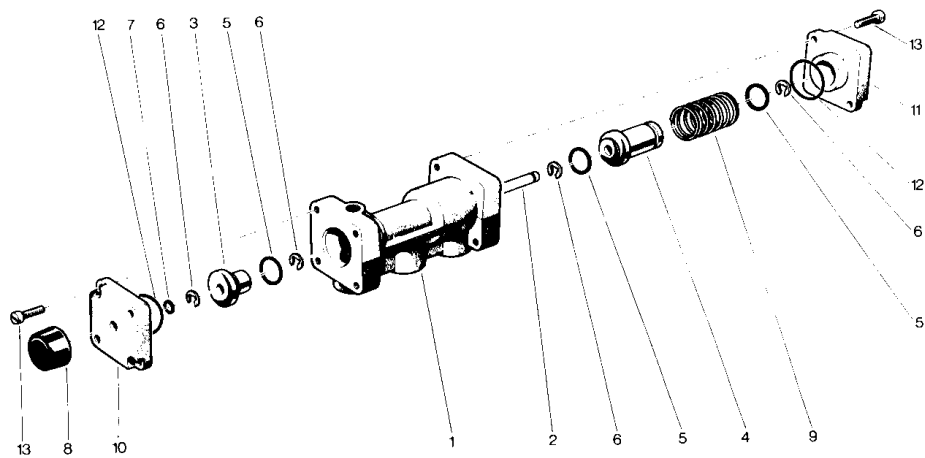
Ref.	A	B	C	D	Designation
-	2252 0493 80		.....	1	Speed regulator
1	2250 5870 80	•	.....	1	Housing
2	0665 9109 00	•	1 .....	1	Seal ring
3	2250 5873 02	•	.....	1	Piston rod
4	0663 7512 00	•	1 .....	1	O-ring
5	2252 0489 00	•	.....	1	Spring
6	2250 5874 00	•	.....	1	Piston
7	0663 2131 00	•	1 .....	2	O-ring
8	2250 5875 00	•	1 .....	2	Piston ring
9	0266 2110 00	•	.....	1	Nut
10	2252 0490 00	•	.....	1	Cylinder
11	2252 0492 00	•	.....	1	Spring

Ref.	A	B	C	D	Designation
12	2252 0493 00	•	.....	1	Piston
13	2252 0494 00	•	.....	1	Ring
14	0147 1250 03	•	.....	4	Bolt
15	0301 2321 00	•	.....	8	Washer
16	0266 2108 00	•	.....	4	Nut

1 Kit 2910 3006 00

2252 0493 80 01  
23\_000\_0\_0\_6

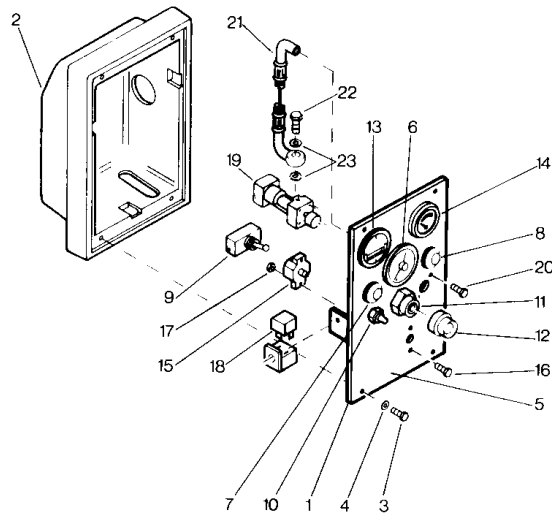
Loading valve  
Belastklep  
Pålastningsventil  
Ladeventil  
Soupape de charge  
Válvula de carga  
Valvola di messa a carico



Ref.	A	B	C	D	Designation
-	1613 2610 80		.....	1	Loading valve
1	***	•	.....	1	Housing
2	1613 2610 00	•	.....	1	Rod
3	1613 2612 00	•	.....	1	Valve
4	1613 2613 00	•	.....	1	Valve
5	0663 3116 00	•	1 .....	3	O-ring
6	0335 3106 00	•	.....	4	Circlip
7	0663 7110 00	•	1 .....	1	O-ring
8	1613 2616 00	•	.....	1	Button
9	1613 3889 00	•	.....	1	Spring

Ref.	A	B	C	D	Designation
10	1613 2614 00	•	.....	1	Cover
11	1613 2615 00	•	.....	1	Cover
12	0663 7126 00	•	1.....	2	O-ring
13	0160 6060 00	•	.....	4	Screw
1 Kit 2910 3007 00					
1613 2610 80 02					
22_017_0_0_6					

Control panel  
 Bedieningsbord  
 Manöverpanel  
 Armaturen Brett  
 Panneau de commande  
 Panel de control  
 Pannello di controllo

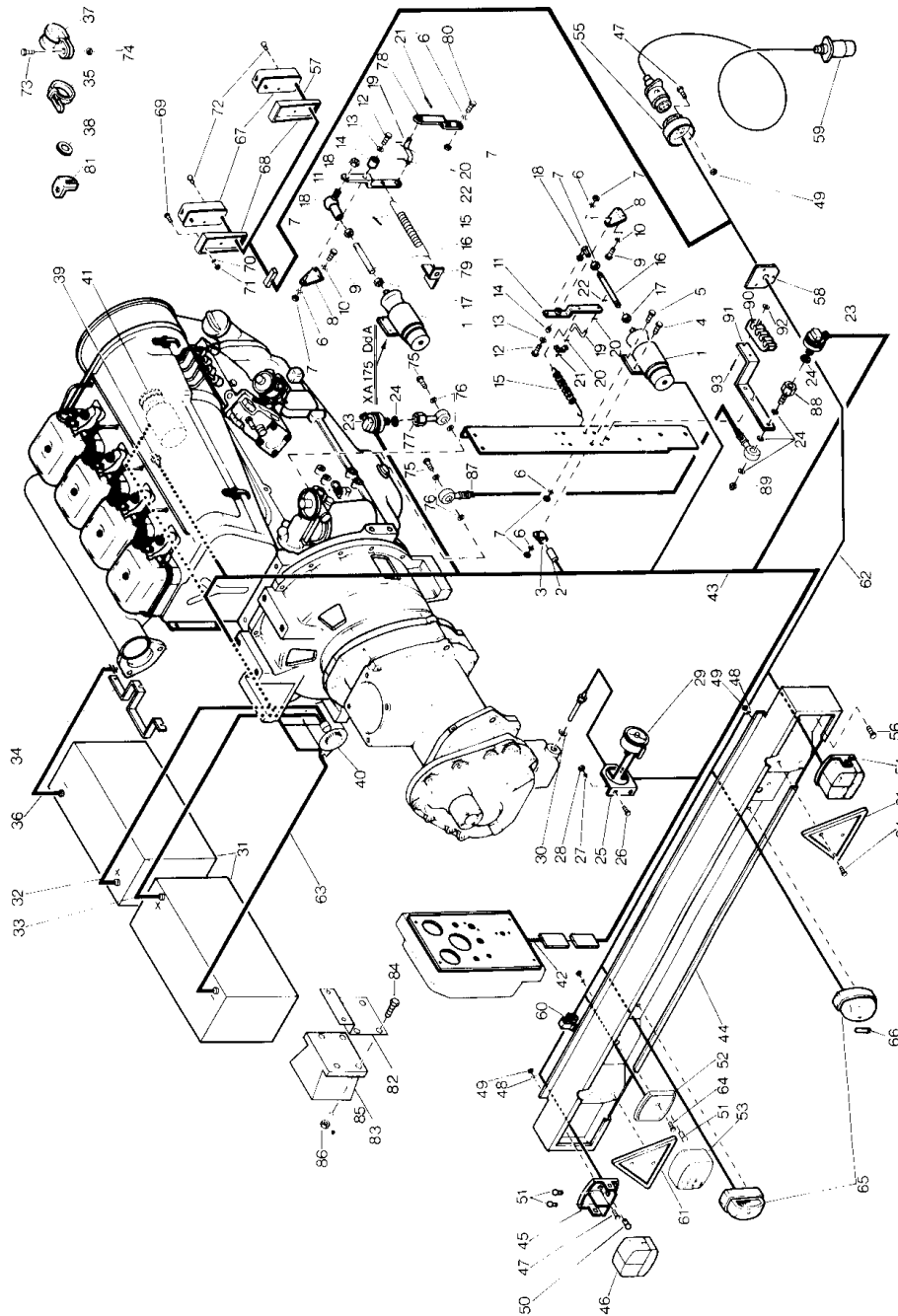


Ref.	A	B	C	D	Designation
1	1616 5071 00		.....	1	Instrument panel
2	1614 4363 00		.....	1	Cover
3	0147 1252 03		.....	4	Bolt
4	0301 2321 00		.....	4	Washer
5			.....	1	Decal
	1079 9916 21		.....		- English
	1079 9916 22		.....		- Dutch
	1079 9916 23		.....		- Swedish
	1079 9916 24		.....		- German
	1616 5146 05		.....		- French
	1079 9916 27		.....		- Italian
6			.....	1	Press. gauge
	1619 5086 00	An.....			-
	1310 0154 00	As.....			-
	1619 5268 00				-
7	1089 0312 01		.....	1	Lampholder
8	1089 0312 02		.....	1	Lampholder
-	1091 0168 00		.....	2	Lamp
9	1089 0262 02		.....	1	Toggle switch

Ref.	A	B	C	D	Designation
10	1619 2371 00		.....	1	Shroud
11	1089 0356 02		.....	1	Push button
12	1612 2386 00		.....	1	Cap
13	1089 0352 01		.....	1	Hourmeter
14	1619 7737 00		.....	1	Fuel gauge
15	1089 0322 07		.....	1	Fuse
16	0160 6063 00		.....	2	Screw
17	0266 2107 00		.....	2	Nut
18	1089 0341 01		.....	3	Relay
19	- - -		.....	1	Loading valve
20	0160 6062 00		.....	2	Screw
21	1202 5374 00		.....	1	Hose assembly
22	0627 5110 00		.....	1	Press. screw
23	0653 1046 00	1.....	.....	2	Gasket

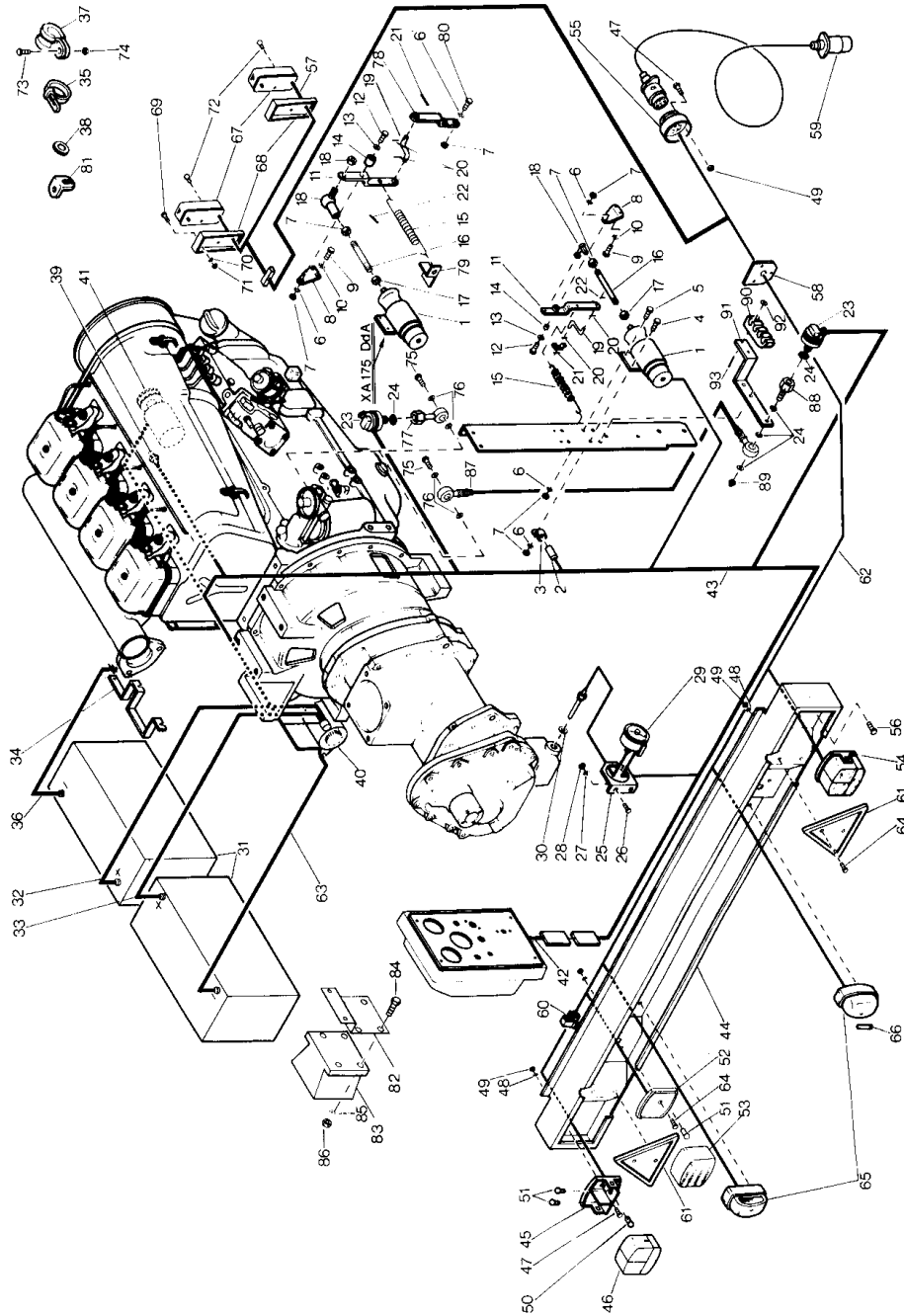
1 Kit 2910 3007 00

28\_075\_2\_1\_1



Electrical equipment  
Elektrische apparatuur  
Elutrustning  
Elektrische Ausrüstung  
Équipement électrique  
Equipo eléctrico  
Apparecchiatura elettrica

Ref.	A	B	C	D	Designation	Ref.	A	B	C	D	Designation
1	1089 0353 01			1	Solenoid	33				1	Cable
2	2253 7327 00			1	Suppressor	1616 0866 01					- XA(S)90DdA,
3	0346 1008 09			1	Clamp						XA(S)125, XA175
4	0147 1249 03			1	Bolt	1613 1302 06					- XAS175,
5	0147 1247 03			3	Bolt						XAH(S)125,
6	0333 3220 00			9	Lock washer						XA175DdA
7	0266 2108 00			10	Nut	1615 0866 07					- XA125DdA
8				1	Bracket	34				1	Support
	1616 2903 01	4)			- "	1616 3341 01					- XA(S)90DdA,
	1616 2903 00				- "						XA(S)125,
9	0211 1244 00			2	Cap screw						XA125DdA
10	0333 3120 00			2	Lock washer	1616 3341 02					- XA(S)175,
11	1616 2904 00			1	Lever						XA175DdA,
12	0147 1250 03			1	Bolt						XAH(S)125
13	0301 2321 00			1	Washer	35	1088 1301 02			11	Cable ty
14	0324 1104 00			1	Spacer	36	2250 2382 14			1	Cable
15				1	Spring	37	1613 0804 02		2)		- Clamp
	1615 2549 00				- XA(S)90DdA,	38			2)		Grommet
					XA(S)125		1614 0132 04			1	- Ø26/14
	1616 3346 00				- XA(S)175,		0698 0156 00			1	- Ø25/18
					XA125DdA,		0698 0150 00			2	- Ø17/13
					XAH(S)125		0698 0153 00			2	- Ø19/15
	1614 2894 00				- XA175DdA	39	***			1	Temp. switch
16				1	Link	40	***			1	Starter
	1613 1214 06				- XA(S)90DdA,	41	***			1	Alternator
					XA(S)125	42	1202 5231 00			1	Wire harness
	1613 1214 08				- XA(S)175,	43				1	Wire harness
					XA125DdA,		1202 5242 00				- XA(S)90DdA,
					XA175DdA,						XA(S)125
					XAH(S)125		1202 5241 00				- XA(S)175,
17	0268 4105 01			1	Nut						XA175DdA
18	1619 1639 00			1	Ball joint		1202 5371 00				- XA125DdA
19	1613 2628 00			1	Link		1613 6345 00	1)			- XAH(S)125
20	0108 1149 00			2	Elastic pin		1202 5241 00				- XAH(S)125
21	0108 1145 00			1	Elastic pin	44	1616 4609 00	2)		1	- Bumper
22	0111 1231 00			1	Split pin	x	1619 5066 00	2)		1	- Box
23				1	Press. switch	45	***	•	2)		- Base plate
	1089 0311 05				- XA(S)90DdA,	46	***	•	2)		- Lens
					XA(S)125	47	0160 6066 00	2)		5	- Screw
	1089 0311 06				- XA(S)175,	48	0333 3215 00	2)		10	- Lock washer
					XA125DdA,	49	0266 2107 00	2)		13	- Nut
					XA175DdA,	50	1089 0364 01	2)		2	- Bulb
					XAH(S)125	51	1089 0365 01	2)		5	- Bulb
24					Gasket	x	1619 6632 00	2)		1	- Foglamp
	0653 1046 00	3)4)5)		3	- "	52	***	•	2)		- Base plate
	0653 1062 00			1	- "	53	***	•	2)		- Lens
25	2252 4045 00			1	Support	54	1619 5066 01	2)		1	- Box
26	0147 1322 03			2	Bolt	55	1089 0291 02	2)		1	- Socket
27	0333 3227 00			2	Lock washer	56	1619 2766 00	2)		4	- Bolt
28	0266 2110 00			2	Nut	57	1612 3989 01	2)		2	- Wire harness
29	1089 0376 01			1	Temp. switch	58	1616 4507 00	2)		1	- Plate
30	0661 1033 00	1		1	Gasket	59	1616 0864 00	2)		1	- Cable
31				2	Battery	60		2)			Clamp
	0926 5354 00	3)			- "		1088 0830 09			2	- Ø6/7
	0926 5093 00				- "		1088 0830 10			9	- Ø10/11
32				1	Cable	61	1619 6677 00	2)		2	- Reflector
	1615 0866 19	3)			- "	62		2)		1	Wire harness
	1615 0866 05				- "		1615 4423 00				- XA(S)125, XA175
							1616 4875 00				- XAS175,
											XAH(S)125



Electrical equipment  
 Elektrische apparatuur  
 Elutrustning  
 Elektrische Ausrüstung  
 Equipement électrique  
 Equipo eléctrico  
 Apparecchiatura elettrica

Ref.	A	B	C	D	Designation
63	1615 0866 01		..... 1		Cable
64	0160 6062 00		2) ..... 8		- Screw
65	1619 5336 00		2) ..... 2		- Light
66	1091 0361 00		2) ..... 2		- Bulb
67	1619 7216 00		2) ..... 2		- Light
68	1616 4608 00		2) ..... 2		- Spacer
69	0160 6054 00		2) ..... 4		- Screw
70	0333 3214 00		2) ..... 4		- Lock washer
71	0266 2106 00		2) ..... 4		- Nut
72	1089 9108 06		2) ..... 2		- Bulb
73	0147 1246 03		2) ..... 1		- Bolt
74	0266 2108 00		2) ..... 1		- Nut
75	0627 4205 03		..... 1		Press. screw
76	0653 1046 00		..... 2		Gasket
77	1612 2979 00		..... 1		Coupling
78	1616 3459 00		4) ..... 1		- Lever
79	1616 3463 00		4) ..... 1		- Bracket
80	0147 1244 03		4) ..... 4		- Bolt
81	1613 0809 00		4) ..... 1		- Bracket
82	1616 4200 00		3) ..... 1		- Support
83	1089 0435 01		3) ..... 1		- Switch
84	0147 1325 03		3) ..... 4		- Bolt
85	0333 3227 00		3) ..... 4		- Lock washer
86	0266 2110 00		3) ..... 4		- Nut
87	1616 2742 00		3)4)5) ..... 1		- Hose assembly
88	1613 2469 00		3)4)5) ..... 1		- Nipple
89	0277 1111 00		3)4)5) ..... 1		- Cap nut
x			..... 1		Clamping
	1614 4686 00		3)4)5) ..... 1		- "
	1614 3716 80		..... 1		- "
90	1613 2684 00	•	..... 1		Support
91		•	..... 1		Bracket
	1614 4572 00		3)4)5) ..... 1		- "
	1614 3716 00		..... 1		- "
92	0301 2318 00	•	..... 2		Washer
93	0129 3177 00	•	..... 2		Rivet

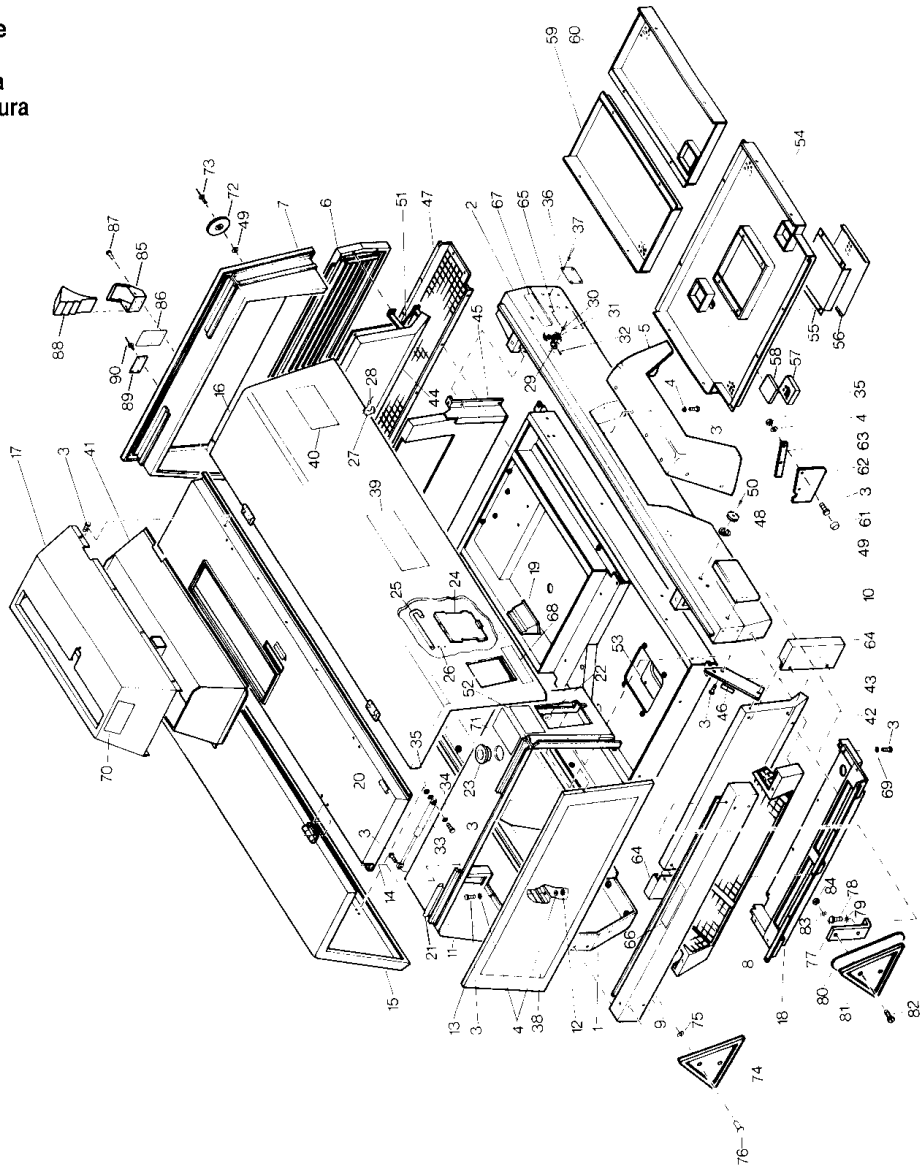
**1 Kit 2910 4046 00**

- 1) With aftercooler / Met nakoeier / Med efterkylare /  
 Mit Nachkühler / Avec refroidisseur final /  
 Con refrigerador posterior / Con refrigeratore finale
- 2) Road signalisation / Signalisatie / Signalanordning /  
 Signalvorrichtung / Signalisation / Señalización /  
 Segnalazione per traino su strada ordinaria
- 3) XA125DdA
- 4) XA175DdA
- 5) South Afrika

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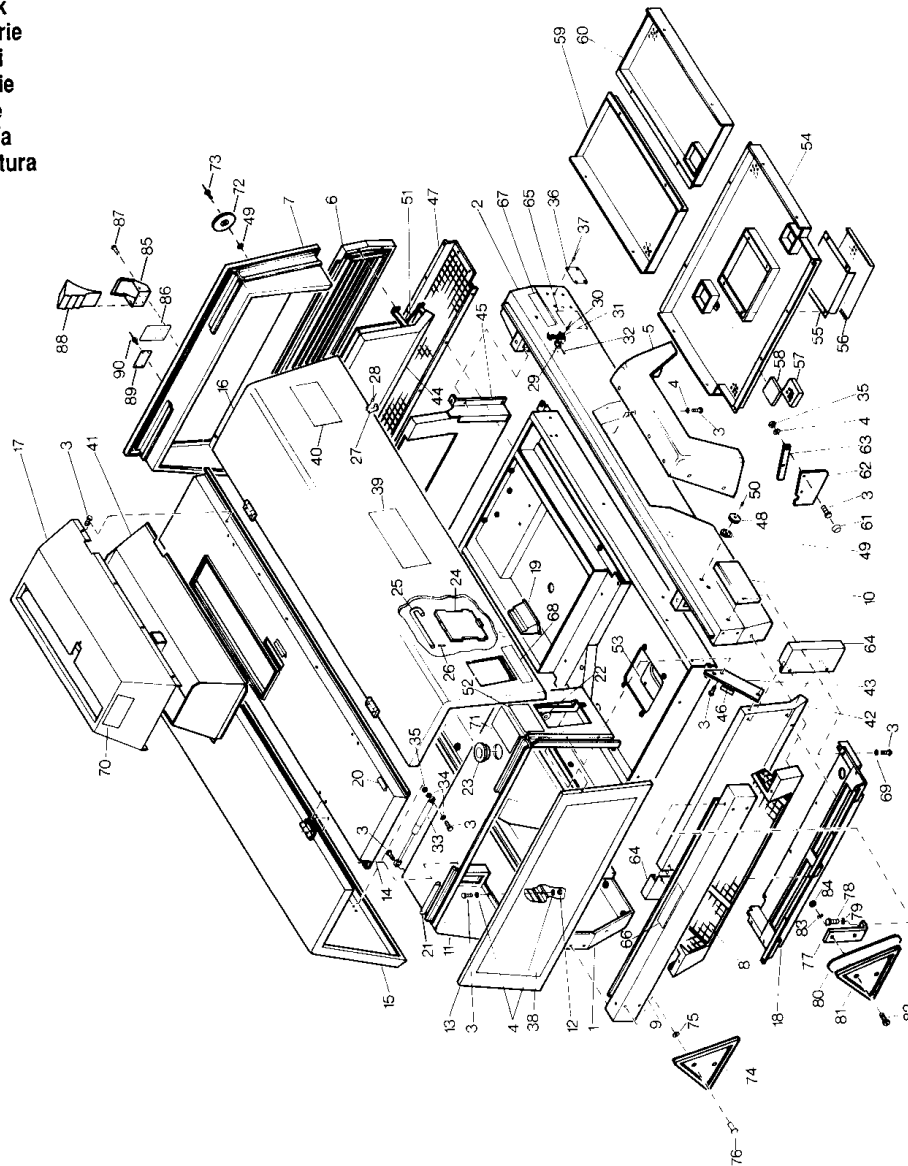
Bodywork  
Karosserie  
Karosseri  
Karosserie  
Capotage  
Carroceria  
Cappottatura



Ref.	A	B	C	D	Designation	Ref.	A	B	C	D	Designation
1				1	Side panel	1616 4623 00					- XA175
1615 4271 00			2)		- XA(S)90DdA,	1616 4842 00		2)			- XA(S)125-Skid,
					XA(S)125						XA175-Skid
1616 4464 00			2)		- XA125DdA,	1615 4375 00		2)			- XAS175-Skid,
					XAH(S)125,						XA125DdA-Skid,
					XAS175,						- XAH(S)125Dd-Skid,
					XA175DdA						XA175DdA-Skid

Ref.	A	B	C	D	Designation	Ref.	A	B	C	D	Designation
2	1615 4272 00	2)	.....	1	Side panel	17	1613 5602 00	.....	.....	1	Duct
	1616 4470 00	2)	.....	.....	- XA(S)90DdA, XA(S)125		1202 9726 00	.....	4)	.....	- XA90DdA, XA125
	1616 4626 00	.....	.....	.....	- XA125DdA, XAH(S)125, XAS175, XA175DdA		1616 4632 00	.....	.....	.....	- XAS125
	1616 4843 00	2)	.....	.....	- XA175		1616 4519 00	.....	4)	.....	- XA175, XA125DdA, XAH125
	1615 4376 00	2)	.....	.....	- XA(S)125-Skid, XA175-Skid	18	1616 4856 00	.....	.....	.....	- XAS175, XAHS125
		.....	.....	.....	- XAS175-Skid, XA125DdA-Skid, - XAH(S)125Dd- Skid, XA175DdA- Skid		1616 4629 00	.....	.....	1	Bottom plate
3	0226 0301 00	.....	.....	AR	Bolt		1616 4483 00	.....	.....	.....	- XA(S)90DdA, XA(S)125, XA175
	1619 2766 00	.....	.....	.....	- M8 x 16		1616 4920 00	.....	.....	.....	- XAS175, XAH(S)125, XA125DdA, XA175DdA
	0147 1324 03	.....	.....	.....	- M8 x 20		19 1614 4378 00	.....	.....	4	Handgrip
	1619 5337 01	.....	.....	.....	- M8 x 22		20 1619 2665 00	.....	.....	AR	Seal
	0147 1331 03	.....	.....	.....	- M8 x 30		21 1503 1056 00	.....	.....	AR	Seal
	0147 1332 03	.....	.....	.....	- M8 x 55		22 1614 4607 00	.....	.....	1	Plug
	0147 1340 03	.....	.....	.....	- M8 x 60		23 2250 9794 00	.....	.....	1	Plug
4	0300 8005 00	.....	.....	AR	Washer		24 1614 4364 00	.....	.....	1	Door
	0301 2335 00	.....	.....	.....	- 9/25 x 1.5		25 1614 4362 00	.....	.....	1	Pin
5	1614 4282 00	.....	.....	.....	- 8.4/16 x 1.6		26 0108 1149 00	.....	.....	1	Elastic pin
6	1616 4475 00	2)	.....	2	Mudguard		27 1613 2666 00	.....	.....	4	Stirrup
7	1202 9900 00	1)2)7)	.....	1	Panel, front		28 0129 3172 01	.....	.....	8	Pop rivet
8	1616 4503 00	1)2)	.....	.....	- "		29 1619 2980 01	.....	.....	4	Base plate
9	1616 4480 00	.....	.....	1	Panel, lower		30 0129 3174 01	.....	.....	12	Pop rivet
	1202 9694 00	3)9)	.....	1	Bumper		31 1619 2978 01	.....	.....	4	Catch
	1616 4609 00	3)	.....	.....	- "		32 1619 2981 01	.....	.....	4	Pin
	1616 4481 00	.....	.....	.....	- "		33 1619 7190 00	.....	.....	2	Gas spring
10	1614 4262 00	.....	.....	2	Bumper		34 0324 1181 00	.....	.....	4	Spacer
11	1616 4630 00	2)	.....	1	Panel, rear		35 0291 1110 00	.....	.....	AR	Lock nut
	1616 4493 00	2)	.....	.....	- XA(S)90DdA, XA(S)125, XA175		1619 1200 00	.....	.....	2	Padlock hook
		.....	.....	.....	- XAS175, XAH(S)125, XA125DdA, XA175DdA	36	1614 4694 00	.....	.....	1	Data plate
12	0266 2110 00	.....	.....	AR	Nut		1614 4694 01	.....	.....	.....	- EEC-English
13	1616 4512 00	2)	.....	1	Cover		1614 4694 02	.....	.....	.....	- EEC-French
14	1202 9713 00	2)	.....	1	Roof		1614 4695 00	.....	.....	.....	- EEC-German
	1616 4515 00	2)	.....	.....	- XA(S)90DdA, XA(S)125		37 0129 3103 00	.....	.....	4	- Not EEC
		.....	.....	.....	- XA125DdA, XAH(S)125, XAS175, XA175DdA		38 1616 4603 00	.....	.....	2	Pop rivet
	1616 4631 00	.....	.....	.....	- XA175	40	2254 0854 30	.....	.....	2	Decal
15	1616 4636 00	2)	.....	1	Door	41	2254 0854 31	.....	.....	1	Decal
	1616 4528 00	2)	.....	.....	- XA(S)90DdA, XA(S)125, XA175		2254 0854 23	.....	.....	.....	- XA90DdA
		.....	.....	.....	- XAS175, XAH(S)125, XA125DdA, XA175DdA	42	2254 0854 22	.....	.....	.....	- XAS90DdA
16	1616 4637 00	2)	.....	1	Door		2254 0854 21	.....	.....	.....	- XA125
	1616 4530 00	2)	.....	.....	- XA(S)90DdA, XA(S)125, XA175		2254 0854 20	.....	.....	.....	- XA175
		.....	.....	.....	- XAS175, XAH(S)125, XA125DdA, XA175DdA		2254 0854 25	.....	.....	.....	- XAS175
		.....	.....	.....	- XAS175, XAH(S)125, XA125DdA, XA175DdA		2254 0854 24	.....	.....	.....	- XAHS125
		.....	.....	.....	- XAS175, XAH(S)125, XA125DdA, XA175DdA	43	0690 1132 00	.....	.....	2	- XAH125
		.....	.....	.....	- XAS175, XAH(S)125, XA125DdA, XA175DdA		1202 9728 00	.....	.....	1	Decal
		.....	.....	.....	- XAS175, XAH(S)125, XA125DdA, XA175DdA		1616 4522 00	.....	.....	.....	Baffle
		.....	.....	.....	- XAS175, XAH(S)125, XA125DdA, XA175DdA		1616 4501 00	.....	.....	1	- XAS90DdA, XAS125
		.....	.....	.....	- XAS175, XAH(S)125, XA125DdA, XA175DdA		1615 4380 00	.....	.....	2)	- XAS175, XAHS125
		.....	.....	.....	- XAS175, XAH(S)125, XA125DdA, XA175DdA		1616 4922 00	.....	.....	2)	- XAS90DdA, XAS125
		.....	.....	.....	- XAS175, XAH(S)125, XA125DdA, XA175DdA		1615 4348 00	.....	.....	.....	- XAS175, XAHS125- Aftercooled
		.....	.....	.....	- XAS175, XAH(S)125, XA125DdA, XA175DdA		1616 4502 00	.....	.....	2	Bracket
		.....	.....	.....	- XAS175, XAH(S)125, XA125DdA, XA175DdA			.....	.....	.....	- XAS90DdA, XAS125
		.....	.....	.....	- XAS175, XAH(S)125, XA125DdA, XA175DdA			.....	.....	.....	- XAS175, XAHS125

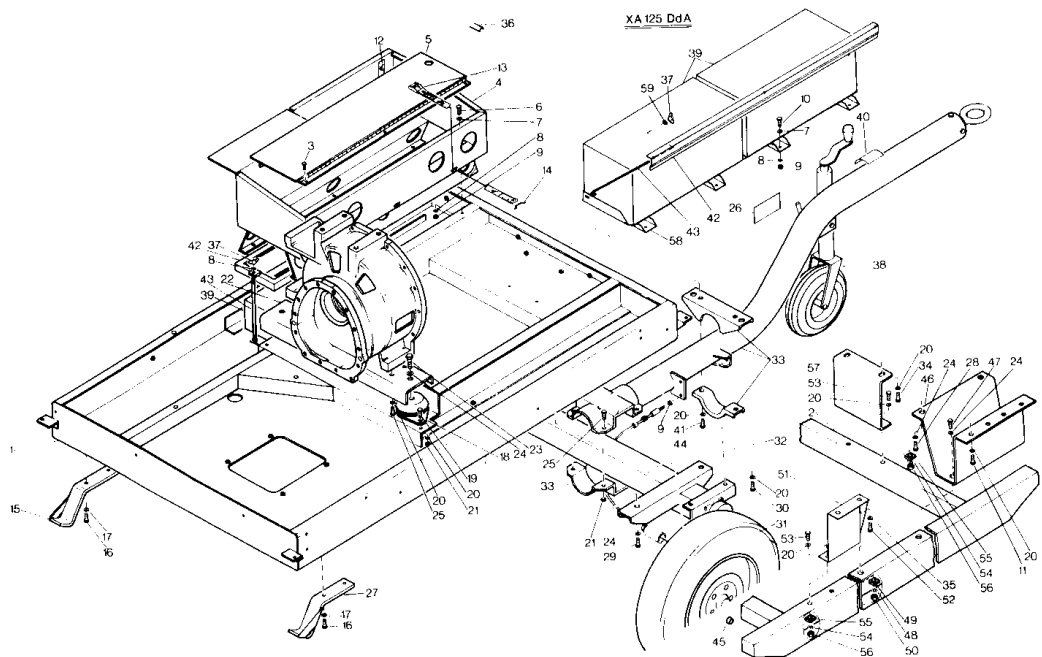
Bodywork  
Karosserie  
Karosseri  
Karosserie  
Capotage  
Carroceria  
Cappottatura



Ref.	A	B	C	D	Designation	Ref.	A	B	C	D	Designation
44				1	Baffle	46	1619 2758 00		AR		Seal
	1615 4346 00	2)			- XAS90DdA, XAS125	47				1	Bottom plate
	1616 4505 00	1)			- XAS175, XAHS125		1615 4290 00				- XA(S)90DdA, XA(S)125
45				1	Baffle		1616 4479 00				- XA175, XAH125
	1615 4276 00	2)			- XAS90DdA, XAS125		1616 4478 00				- XAS175, XAHS125, XA125DdA, XA175DdA
	1616 4560 00	2)			- XAS175, XAHS125						- Reflector
	1616 4868 00	2)			- XAS175-South Afrika	48	1619 6634 01	3)		4	

Ref.	A	B	C	D	Designation	Ref.	A	B	C	D	Designation
49	1614 4622 00		3).....	6	- Spacer	73	0129 3149 01		3).....	4	- Pop rivet
50	0129 3110 00		3).....	6	- Pop rivet	74	1619 6677 00		3).....	2	- Reflector
51	1616 4449 00			1	Plate	75	1614 4622 00		3).....	2	- Spacer
					- XAS175, XAHS125	76	0129 3118 00		3).....	2	- Pop rivet
52				2	Label	77	1612 2873 00		3)9).....	2	- Bracket
1079 9906 01					- English	78	0147 1244 03		3)9).....	4	- Bolt
1079 9906 02					- Dutch	79	0333 3220 00		3)9).....	4	- Lock washer
1079 9906 03					- Swedish	80	1202 9666 00		3)9).....	2	- Plate
1079 9906 04					- German	81	1619 6677 00		3)9).....	2	- Reflector
1614 5063 00					- French	82	0160 6062 00		3)9).....	4	- Screw
1079 9906 06					- Spanish	83	0333 3215 00		3)9).....	4	- Lock washer
1079 9906 07					- Italian	84	0266 2107 00		3)9).....	4	- Nut
53	1616 4457 00			1	Bottom plate	85	1202 9354 00		(T).....	2	- Bracket
54				1	Bottom plate	86	1202 9537 00		(T).....	2	- Plate
1616 4793 00			8).....		- XAS90DdA, XAS125	87	0129 3270 15		(T).....	8	- Pop rivet
1616 4792 00			8).....		- XAS175, XAHS125	88	1202 9353 00		(T).....	2	- Wheel chocks
55	1202 8551 00		5).....	1	Cover	89	1202 9523 00		(T).....	1	- Instruction plate
					- XAS90DdA, XAS125, XAS175, XAHS125	90	0129 3104 00		(T).....	2	- Pop rivet
56	1202 8552 00			1	Baffle	1) To be lined with foam plastic / Te bekleden met schuimrubber / Skall kläs med skumplast / Auskleiden mit Schaumgummi / A garnir avec du caoutchouc mousse / Revestir de goma espuma/ Da rivestira con plastica espansa 1619 6138 00(AR)					
					- XAS90DdA, XAS125, XAS175, XAHS125	2) To be lined with foam plastic / Te bekleden met schuimrubber / Skall kläs med skumplast / Auskleiden mit Schaumgummi / A garnir avec du caoutchouc mousse / Revestir de goma espuma/ Da rivestira con plastica espansa 1619 6138 01(AR) only for XA(H)S					
57	1202 8591 00			2	Baffle	3) Road signalisation / Signalisation / Signalanordning / Signalvorrichtung / Signalisation / Señalización / Segnalazione per traino su strada ordinaria					
1202 8591 00				3	- XAS175, XAHS125	4) To be lined with mineral wool / Te bekleden met rotswol / Skall kläs med mineralull / Auskleiden mit Rockwool / A garnir avec de la laine minérale / Revestir de lana mineral / Da rivestire con lana minerale 1619 2112 00(AR)					
58	1616 4801 00		5).....	2	Cover	5) To be lined with foam plastic / Te bekleden met schuimrubber / Skall kläs med skumplast / Auskleiden mit Schaumgummi / A garnir avec du caoutchouc mousse / Revestir de goma espuma/ Da rivestira con plastica espansa 1619 2114 00(AR)					
1616 4801 00			5).....	3	- XAS175, XAHS125	6) For the Netherlands / Voor Nederland / För Holland / Für die Niederlande / Pour la Hollande / Para Holanda / Per l'Olanda					
59	1616 4795 00		8).....	1	Bottom plate	7) Only for XA(H)S125 AUT-DEU, XAS175 AUT-DEU / Enkel voor XA(H)S125 AUT-DEU, XAS175 AUT-DEU / Endast för XA(H)S125 AUT-DEU, XAS175 AUT-DEU / Nur für XA(H)S125 AUT-DEU, XAS175 AUT-DEU / Seulement pour XA(H)S125 AUT-DEU, XAS175 AUT-DEU / Unicamente para XA(H)S125 AUT-DEU, XAS175 AUT-DEU / Solo per XA(H)S125 AUT-DEU, XAS175 AUT-DEU					
60	1616 4796 00		8).....	1	Bottom plate	8) To be lined with foam plastic / Te bekleden met schuimrubber / Skall kläs med skumplast / Auskleiden mit Schaumgummi / A garnir avec du caoutchouc mousse / Revestir de goma espuma/ Da rivestira con plastica espansa 1619 2114 03(AR)					
61	1613 3672 00		6).....	4	- Cap	9) Great Britain / Gr. Bittannië / Storbritannien / Großbritannien la Grande Bretagne / la Gran Bretaña / Gran Bretagna					
62	1616 4898 00		6).....	4	- Flap						
63	1616 4899 00		6).....	4	- Strip						
64	1616 4832 00		2).....	2	Baffle						
					- XAS						
65				1	Label						
1613 5402 01					- XAS125						
1613 5402 03					- XAS175						
1613 5397 00					- XA(H)S125- AUS, XAS175-AUS						
66				1	Label						
2253 5108 00					- English						
1079 9902 92					- Dutch						
1079 9902 93					- Swedish						
2253 5108 04					- German						
2253 5108 05					- French						
1079 9902 96					- Spanish						
1079 9902 97					- Italian						
67	1613 3384 00			2	Decal						
					- USA						
68	1613 3385 00			1	Decal						
					- USA						
69	0300 8019 00			4	Washer						
70	1079 9902 10			1	Label						
71				1	Label						
2920 1014 10					- English						
2921 1014 10					- Dutch						
2922 1014 10					- French						
2923 1014 10					- German						
2924 1014 10					- Spanish						
2925 1014 10					- Swedish						
2926 1014 10					- Italian						
72	1619 6634 00		3).....	2	- Reflector						

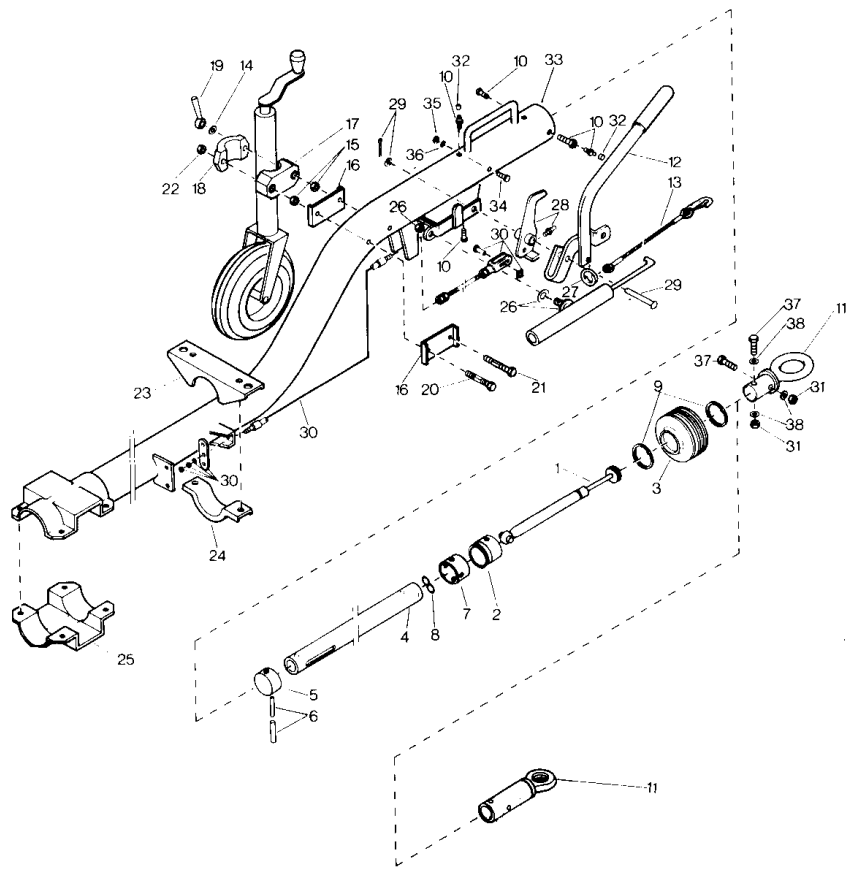
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Frame and mountings  
 Frame en opbouwonderdelen  
 Ram och fästen  
 Rahmen und Montagekomponenten  
 Châssis et superstructure  
 Bastidor y piezas de montaje  
 Telaio e supporti

Ref.	A	B	C	D	Designation	Ref.	A	B	C	D	Designation
1	1613 6272 00			1	Frame	x	0538 0489 00			2	Tyre
	1613 6498 00				- XA(S)90DdA,		0538 0400 06				- XA(H)
	1613 6271 00				XA(S)125						- XA(H)S
					- XA175	x	0538 3268 00			2	Inner tube
					- XAS175,		0538 3200 05				- XA(H)
					XA175DdA,						- XA(H)S
					XAH(S)125,	32				1	Axle
					XA125DdA	33				1	Towbar
2	1616 4844 00			1	Skid	34	0147 1413 03	1)		2	- Bolt
	1615 4371 00	1)			- XA(S)125, XA175	35	0301 2344 00	1)		4	- Washer
		1)			- XAS175,	36	1619 2795 00			AR	Seal
					XA175DdA,	37					Wing nut
					XAH(S)125		0296 1108 02	2)		3	- "
3	1619 2766 00			7	Bolt		0296 1110 02			4	- "
4	1616 4670 00			1	Toolbox	38	1619 7301 00			1	Wheel
					- XA(S)90DdA,	39				2	Battery
					XA(S)125, XA175	40	1079 9902 00			1	Decal
	1616 4558 00				- XAS175,	41				2	Bolt
					XA175DdA,		0147 1412 15	3)			- "
					XAH(S)125		0147 1413 15				- "
5	1616 4638 00			1	Cover	42	1616 4554 00			2	Battery frame
					- XA(S)90DdA,		2254 0691 00	2)		1	- Battery clamp
	1616 4556 00				XA(S)125, XA175	43					Stud
					- XAS175,		2253 9490 04	2)		3	- "
					XA175DdA,		1614 2246 03			4	- "
					XAH(S)125	44	1615 4778 01			2	Brake cable
6	0147 1322 03			AR	Bolt	45	1202 9378 00	(T)		4	- Cap
7	0301 2335 00			AR	Washer	46	1615 4372 00	1)		2	- Support
8	0333 3227 00			AR	Lock washer	47	0147 1477 03	1)		4	- Bolt
9	0266 2110 00			AR	Nut	48	0333 3244 00	1)		4	- Lock washer
10	0147 1323 03	2)		8	Bolt	49	0306 3111 00	1)		4	- Conical washer
11	0147 1400 15	1)		4	Bolt	50	0266 2114 00	1)		4	- Nut
12	1616 4615 00			3	Stretchers	51	1615 4374 00	1)		2	- Support
13	1616 4614 00			3	Stretchers	52	0147 1362 15	1)		4	- Bolt
14	1616 4613 00			6	Retainer	53	0147 1402 03	1)		6	- Bolt
15				1	Bracket	54	0333 3237 00	1)		6	- Lock washer
	1615 4809 00	3)4)			- "	55	0306 3107 00	1)		6	- Conical washer
	1616 4458 00	5)			- "	56	0266 2112 00	1)		6	- Nut
16	0147 1362 03			4	Bolt	57	1615 4373 00	1)		1	- Support
17	1613 2346 00			4	Washer	58	1615 4377 00	2)		1	- Battery saddle
18	1619 3728 00			2	Rubber pad	59	0301 2321 00	2)		3	- Washer
19	0147 1400 03			4	Bolt						
20	0301 2358 00			AR	Washer						
21	0291 1112 00			8	Lock nut						
22	1613 6274 00			1	Support						
23	0147 1474 03			2	Bolt						
24	0301 2378 00			AR	Washer						
25	0147 1401 03			8	Bolt						
26	1202 5432 00			1	Label						
27				1	Bracket						
	1615 4809 00	3)4)			- "						
	1202 7695 00	5)			- "						
28	0147 1475 15	1)		4	- Bolt						
29	0147 1475 15			4	Bolt						
30	0147 1400 15			4	Bolt						
31				2	Disc wheel						
	1616 2253 00				- XA(H)						
	1616 4461 00				- XA(H)S						

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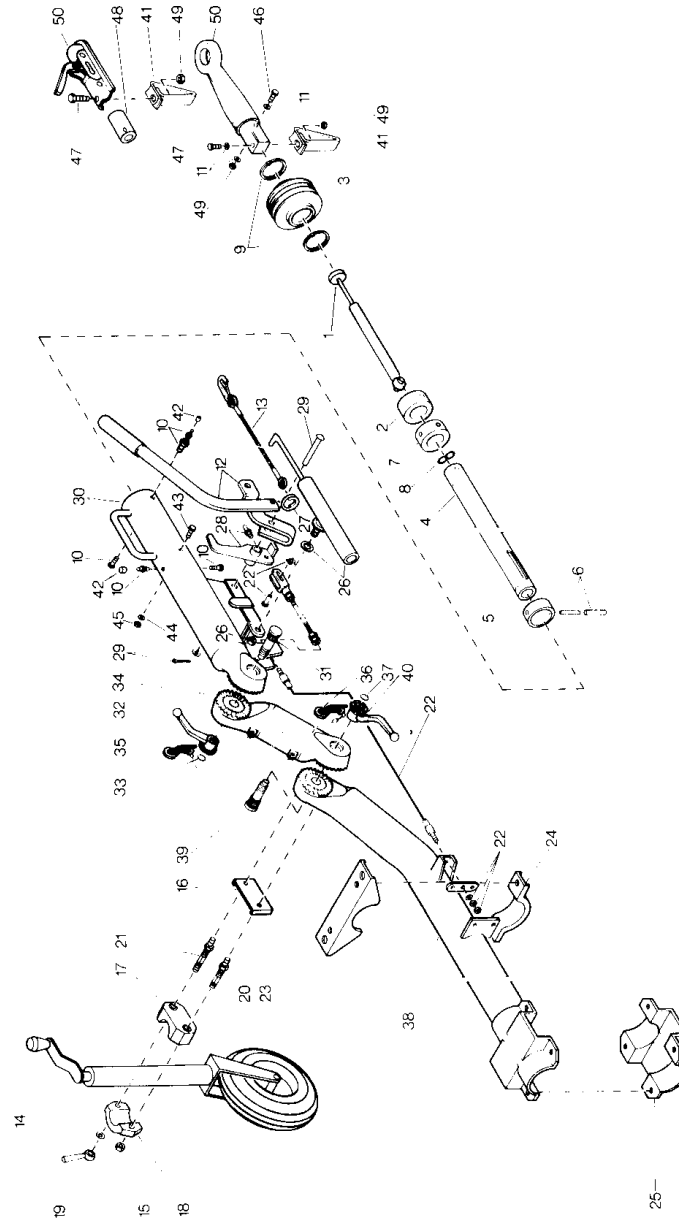


Non-adjustable towbar - with brakes  
 Niet regelbare trekstang - met remmen  
 Ej justerbar dragst ng - med bromsar  
 Nicht einstellbare Deichsel - mit Bremsen  
 Timon non r glable - avec freins  
 Barra de tracci n no ajustable - con frenos  
 Barra di traino non regolabile - con freni

Ref.	A	B	C	D	Designation	Ref.	A	B	C	D	Designation
-			1)	1	Towbar	18	2900 0819 00	••	.....	1	Clamp
	1202 9364 82		1)	1	- A.C.	19	2900 0744 00	••	.....	1	Handle
	1202 9364 83		1)	1	- NATO	20	2900 0934 00	••	.....	1	Bolt
	1202 9366 82		1)	1	- Swivel A.C.(Great Britain)	21	2900 0935 00	••	.....	1	Bolt
	1202 9365 82		2)	1	- A.C.	22	0291 1114 00	••	.....	1	Lock nut
	1202 9365 83		2)	1	- NATO	23	1202 8958 00	•	.....	1	Clamp
	1202 9367 82		2)	1	- Swivel A.C.(Great Britain)	24	1202 8999 00	•	.....	1	Clamp
1	1202 9249 00	•	.....	1	Shock absorber	25	1202 8955 00	•	.....	1	Clamp
2	1202 9259 00	•	.....	1	Bush	26	2900 1137 00	•	.....	1	Spring
3	2900 0448 00	•	.....	1	Bellows	27	2900 0424 00	•	.....	1	Ring
4	1202 9244 00	•	.....	1	Bush	28	2914 2001 00	•	.....	1	Lever
	1202 9245 00	•	.....	1	- A.C., NATO	29	2900 0931 00	•	.....	1	Pin
					- Swivel A.C.(Great Britain)	30	2914 2002 00	1)	.....	1	Brake cable
5	1202 9246 00	•	.....	1	Ring		2914 2004 00	2)	.....	1	- "
6	2900 0710 00	•	.....	1	Elastic pin	31	0291 1112 00	•	.....	2	Lock nut
7	1202 9260 00	•	.....	1	Bush	32	2900 0850 00	•	.....	2	Cap
8	1202 9251 00	•	.....	1	O-ring	33	2914 2000 00	1)	.....	1	Housing
9	1088 1301 03	•	.....	2	Cable ty		2914 2003 00	2)	.....	1	- "
10	2900 0714 00	•	.....	2	Grease nipple	34	1202 9248 00	•	.....	1	Bolt
11	1614 4368 00	•	.....	1	Towing eye	35	0291 1111 00	•	.....	1	Lock nut
	1614 4678 00	•	.....	1	- A.C	36	0301 2344 00	•	.....	1	Washer
12	2900 1136 00	•	.....	1	- NATO	37	1202 9844 02	•	.....	2	Bolt
13	2900 0814 00	•	.....	1	Lever	38	1202 9845 00	•	.....	4	Washer
-	1619 7325 00	•	.....	1	Cable						
14	0301 2378 00	••	.....	1	Clamp	1)	XA(S)90DdA, XA(S)125, XA175				
15	0266 1114 00	••	.....	2	Washer	2)	XAS175, XAH(S)125, XA125DdA, XA175DdA				
16	2900 0820 00	••	.....	2	Nut						
17	2900 0818 00	••	.....	1	Locking plate						
					Clamp						

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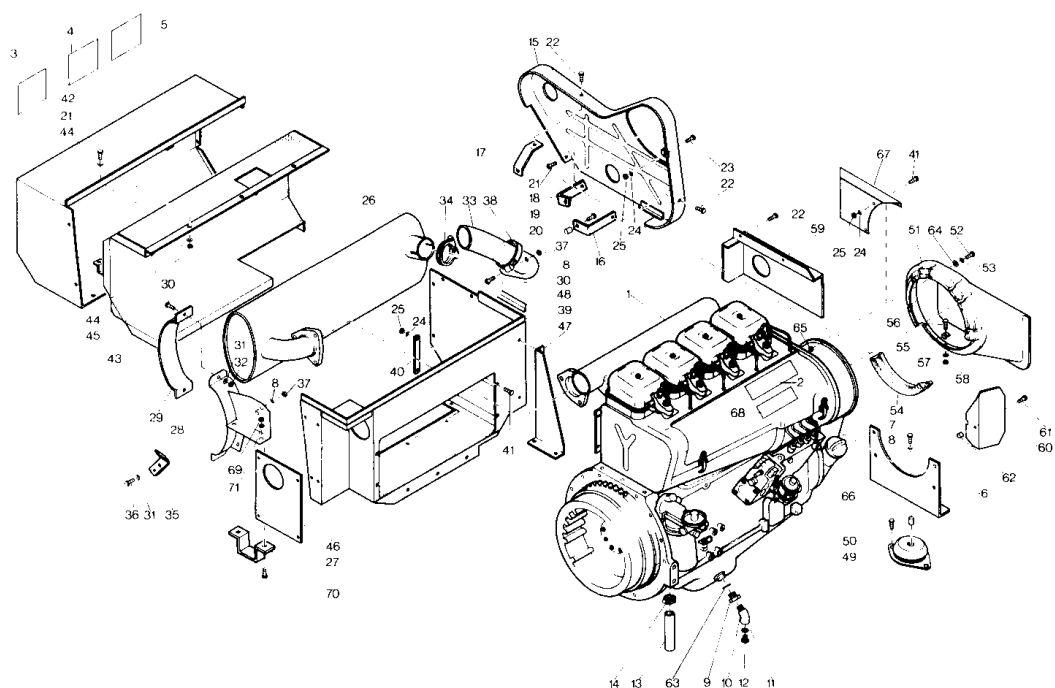
Adjustable towbar - with brakes  
 Regelbare trekstang - met remmen  
 Justerbar dragstang - med bromsar  
 Einstellbare Deichsel - mit Bremsen  
 Timon réglable - avec freins  
 Barra de tracción ajustable - con frenos  
 Barra di traino regolabile, con freni

Ref.	A	B	C	D	Designation	Ref.	A	B	C	D	Designation
				1	Towbar	30	2914 2005 00	•		1	Housing
1202 9360 81		1)			- DIN	31	2900 0833 00	••		1	Bolt
1202 9360 82		1)			- A.C.	32	2900 0834 00	••		1	Handle
1202 9363 80		1)			- Ball coupling	33	2900 0841 00	•		1	Ring
					(Dutch version)	34	2900 0721 00	•		1	Rod
1202 9361 81		2)			- DIN	35	2900 0836 00	••		1	Clip
1202 9361 82		2)			- A.C.	36	2900 0837 00	••		1	Clip
1202 9362 80		2)			- Ball coupling	37	2900 0835 00	•		1	Ring
					(Dutch version)	38		•		1	Towbar
1 1202 9249 00	•			1	Shock absorber		2900 0838 00		1)		- DIN, A.C.
2 1202 9257 00	•			1	Bush		2900 0843 00		2)		- DIN, A.C.
3 2900 0448 00	•			1	Bellows		2914 2006 00		1)		- Ball coupling
4 1202 9244 00	•			1	Bush		2900 0844 00		2)		- Ball coupling
5 1202 9246 00	•			1	Ring	39	2900 0839 00	••		1	Bolt
6 2900 0710 00	•			1	Elastic pin	40	2900 0840 00	••		1	Handle
7 1202 9258 00	•			1	Bush	41	1619 7213 00	•		1	Support
8 1202 9251 00	•			1	O-ring	42	2900 0850 00	•		2	Cap
9 1088 1301 03	•			2	Cable ty	43	1202 9248 00	•		1	Bolt
10 2900 0714 00	•			2	Grease nipple	44	0301 2344 00	•		1	Washer
11 1202 9845 00	•			3	Washer	45		•		1	Lock nut
					- DIN, A.C.		0291 1185 14				- Ball coupling
12 2900 1136 00	•			1	Lever		0291 1111 00				- DIN, A.C.
13 2900 0814 00	•			1	Cable	46		•			Bolt
- 1619 7326 00	•			1	Clamp		1202 9844 02			2	- Ball coupling
14 0301 2378 00	••			1	Washer		0147 1409 03			1	- DIN, A.C.
15 0291 1114 00	••			1	Lock nut	47	0147 1411 03	•		1	Bolt
16 2900 0820 00	••			1	Plate	48	1202 9732 00	•		1	Bush
17 2900 0827 00	••			1	Clamp						- Ball coupling
18 2900 0819 00	••			1	Clamp	49		•		2	Lock nut
19 2900 0744 00	••			1	Handle		0291 1185 13				- Ball coupling
20 2900 0828 00	••			1	Bolt		0291 1112 00				- DIN, A.C.
21 2900 0829 00	••			1	Bolt	50		•		1	Towing eye
22				1	Brake cable		1619 7273 00				- Ball coupling
		1)			- "		1614 4392 00				- DIN
2914 2008 00		2)			- "		1614 4368 00				- A.C.
2914 2009 00											
23 1202 8998 00	•			1	Clamp						
24 1202 8999 00	•			1	Clamp						
25 1202 8955 00	•			1	Clamp						
26 2900 1137 00	•			1	Spring						
27 2900 0424 00	•			1	Ring						
28 2914 2007 00	•			1	Lever						
29 2900 0816 00	•			1	Pin						

1) XA(S)125, XA175  
 2) XAS175, XAH(S)125

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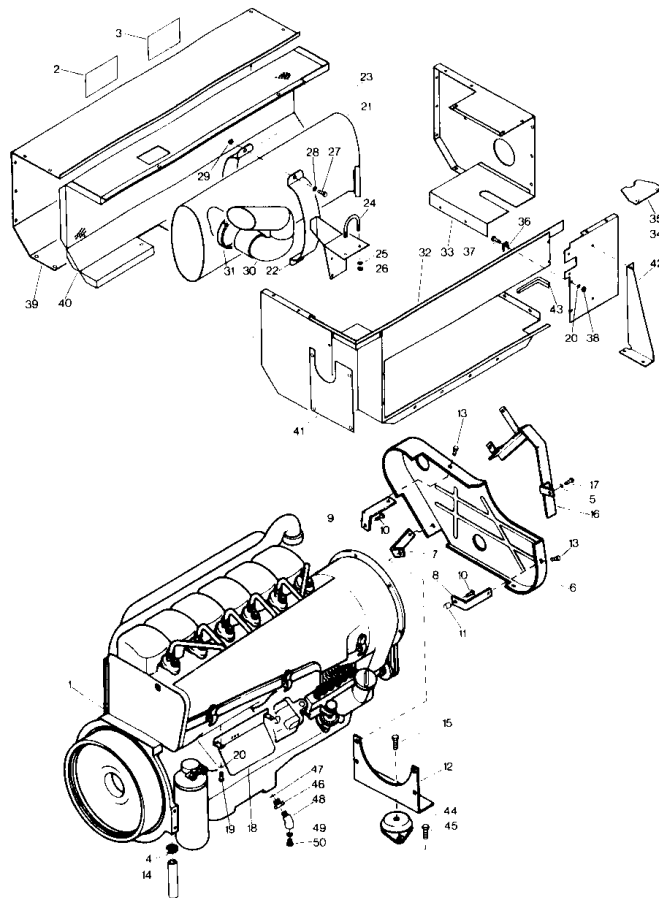
Engine, accessories and exhaust  
 Motor, toebehoren en uitlaat  
 Motor, tillbehör och avgasjuddämpare  
 Motor, Zubehör und Auspuff  
 Moteur, accessoires et échappement  
 Motor, accesorios y escape  
 Motore a scoppio, accessori e scarico



Ref.	A	B	C	D	Designation	Ref.	A	B	C	D	Designation
1	1202 9742 00			1	Engine	33				1	Exhaust pipe
					- F4L913 56kW -		1202 9725 00		2)3)		- "
					XA(S)90DdA,		1616 4536 00		4)5)6)		- "
					XA(S)125	34	0346 3000 24		4)5)6)	1	- Clamp
	1619 7206 00				- F6L913 84kW -	35	1616 4535 00		4)5)6)	1	- Bracket
					XA(S)175	36	0147 1362 03			AR	Bolt
	1619 7338 00				- F6L913 79kW -	37	0266 2111 00			3	Nut
					XA(S)125	38	0346 0220 00			1	Clamp
	1202 9889 00				- F4L913 59kW -	39				1	Duct
					XA(S)125-South		1202 9719 00		2)3)		- "
					Afrika		1202 9718 00		2)3)		- "
	1619 7303 00				- F6L913 89kW -		1613 6238 00		4)5)6)		- "
					XA(S)175-South	40	1614 3063 00			2	Stiffener
					Afrika	41	0147 1247 03			AR	Bolt
	1619 7339 00				- F6L913 89kW -	42				1	Cover
					XA125DdA		1202 9715 00		1)2)3)		- "
2	1613 5449 00			1	Label		1613 6239 00		1)4)5)6)		- "
3				1	Label	43				1	Baffle
	1616 4818 00				- English		1202 9717 00		2)3)		- "
	1079 9902 82				- Dutch		1616 4548 00		4)5)6)		- "
	1079 9902 83				- Swedish	44	0301 2335 00			4	Washer
	1616 4818 04				- German	45	0266 2110 00			2	Nut
	1616 4818 05				- French	46	1616 4548 00			1	Plate
	1079 9902 86				- Spanish	47	1616 4547 00			1	Support
	1079 9902 87				- Italian	48	1202 5211 00			AR	Seal
4				1	Label	49	1619 5506 01			1	Rubber pad
	2250 9263 00				- English	50	0147 1321 15			2	Bolt
	1079 9902 22				- Dutch	51				1	Duct
	1079 9902 23				- Swedish		1615 4254 00		3)		- "
	1079 9902 24				- German		1616 4508 00		5)		- "
	1079 9902 25				- French	52	0147 1249 03		3)5)	6	- Bolt
	1079 9902 26				- Spanish	53	0301 2321 00		3)5)	6	- Washer
	1079 9902 27				- Italian	54				1	Brush
5				1	Label		1615 4270 00		3)		- "
	2934 0120 00				- XA(S)125Dd		1616 4471 00		5)		- "
	2934 0121 00				- XA(S)175Dd	55	1616 4472 00		3)5)	4	- Clamp
6	1616 4462 00			1	Support	56	0147 1173 03		3)5)	4	- Bolt
7				1	Bolt	57	0301 2315 00		3)5)	4	- Washer
	0147 1360 03		2)3)4)5)		- "	58	0291 1106 00		3)5)	4	- Lock nut
	0147 1368 03		6)		- "	59				1	Protection
8	0333 3232 00			AR	Lock washer		1202 9712 00		3)		- "
9	1614 2208 00			1	Nipple		1616 4601 00		5)		- "
10	0562 0505 04			1	Elbow	60	1616 4657 00		3)5)	1	- Protection
11	0661 1033 00			1	Gasket	61	0147 1336 03		3)5)	1	- Bolt
12	0686 4204 00			1	Plug	62	1616 4893 00		3)5)	1	- Spacer
13				AR	Hose	63	0661 1044 00			1	Gasket
	0099 9910 47		2)3)		- "	64	0301 2327 00		3)5)	6	- Washer
	0071 8403 23		4)5)6)		- "	65	0291 1108 00		3)5)	6	- Lock nut
14	0347 6108 00			1	Clamp	66	1614 3676 00		6)	1	- Spacer
15				1	Guard	67	1616 4876 00		4)6)	1	- Shield
	1613 3557 00		2)		- "	68	1079 9915 80			1	Decal
	1615 3398 00		4)6)		- "	69	0291 1185 01		4)5)6)	2	- Lock nut
16	1616 4057 00		2)4)6)	1	- Bracket	70	0147 1401 03		4)5)6)	2	- Bolt
17	1616 4666 00		2)4)6)	1	- Bracket	71	0301 2358 00		4)5)6)	2	- Washer
18	1613 2430 04		2)4)6)	1	- Bracket						
19	0147 1336 03		2)4)6)	2	- Bolt						
20	1616 4893 00		2)4)6)	1	- Spacer						
21	0147 1321 03			AR	Bolt						
22	1619 2766 00			AR	Bolt						
23	0147 1250 03		2)4)6)	1	- Bolt						
24	0333 3220 00			AR	Lock washer						
25	0266 2108 00			AR	Nut						
26	1616 4532 00		4)5)6)	1	- Silencer						
27	1614 5460 00		4)5)6)	1	- Bracket						
28	1615 4428 00		4)5)6)	1	- Support						
29	1616 4533 00		4)5)6)	1	- Clamp						
30	0147 1363 03			4	Bolt						
31	0301 2344 00			AR	Washer						
32	1619 6206 00			2	Nut						

- 1) To be lined with mineral wool / Te bekleden met rotswool /  
Skall kläs med mineralull / Auskleiden mit Rockwool /  
A garnir avec de la laine minérale / Revestir de lana mineral /  
Da rivestire con lana minerale  
1619 2112 00(AR)
- 2) XA125  
3) XAS125  
4) XA125 DdA, XAH125  
5) XAS175, XAHS125  
6) XA175

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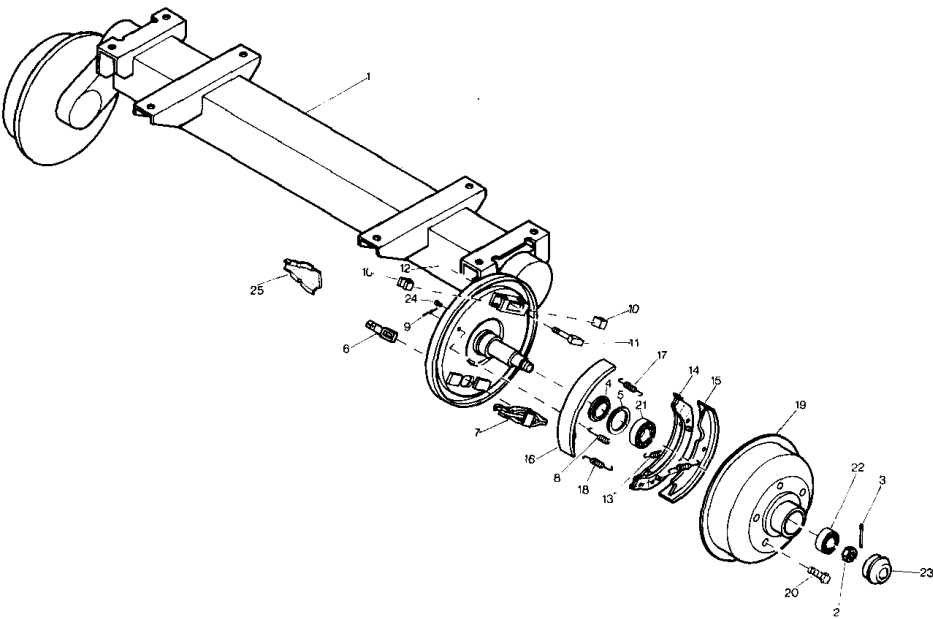
Engine, accessories and exhaust    **XA175 DdA**  
 Motor, toebehoren en uitlaat  
 Motor, tillbehör och avgasjuddämpare  
 Motor, Zubehör und Auspuff  
 Moteur, accessoires et échappement  
 Motor, accesorios y escape  
 Motore a scoppio, accessori e scarico

Ref.	A	B	C	D	Designation	Ref.	A	B	C	D	Designation
1	1619 7358 00			1	Engine	23	1616 4861 00			1	Clamp
					BF6L 913 104kW	24	1616 4864 00			2	Clamp
2				1	Label	25	0301 2335 00			4	Washer
	1616 4818 00				- English	26	0291 1185 04			4	Lock nut
	1079 9902 82				- Dutch	27	0147 1363 03			2	Bolt
	1079 9902 83				- Swedish	28	0301 2344 00			2	Washer
	1616 4818 04				- German	29	1619 6206 00			2	Nut
	1616 4818 05				- French	30	1616 4863 00			1	Exhaust pipe
	1079 9902 86				- Spanish	31	0346 3001 03			1	Pipe clamp
	1079 9902 87				- Italian	32	1616 4845 00			1	Duct
3				1	Label	33	1616 4848 00			1	Plate
	2250 9263 00				- English	34	1616 4847 00			1	Plate
	1079 9902 22				- Dutch	35	1616 4851 00			1	Plate
	1079 9902 23				- Swedish	36	1614 3063 00			2	Strip
	1079 9902 24				- German	37	0147 1247 03			4	Bolt
	1079 9902 25				- French	38	0266 2108 00			4	Nut
	1079 9902 26				- Spanish	39	1616 4849 00	1)		1	Cover
	1079 9902 27				- Italian	40	1616 4850 00			1	Baffle
4	0347 6108 00			1	Hose clip	41	1616 4548 00			1	Plate
5	0333 3227 00			7	Lock washer	42	1616 4547 00			1	Support
6	1616 3894 00			1	Guard	43	1202 5211 00			AR	Seal
7	1616 3465 00			1	Bracket	44	1619 5506 01			1	Buffer
8	1616 3466 00			1	Bracket	45	0147 1321 15			2	Bolt
9	1616 3990 00			1	Bracket	46	1614 2208 00			1	Nipple
10	0147 1336 03			2	Bolt	47	0661 1044 00			1	Gasket
11	1616 4893 00			1	Spacer	48	0562 0505 04			1	Bend
12	1616 4462 00			1	Support	49	0661 1033 00			1	Gasket
13	1619 2766 00			AR	Bolt	50	0686 4204 00			1	Plug
14	0071 8403 23			AR	Hose						
15	0147 1360 03			1	Bolt						
16	1616 3803 00			1	Protection						
17	0147 1322 03			3	Bolt						
18	1616 4859 00			1	Shield						
19	0147 1245 03			2	Bolt						
20	0333 3220 00			6	Lock washer						
21	1616 4862 00			1	Silencer						
22	1616 4860 00			1	Support						

1) To be lined with mineral wool / Te bekleden met rotswol /  
 Skall kläs med mineralull / Auskleiden mit Rockwool /  
 A garnir avec de la laine minérale / Revestir de lana mineral /  
 Da rivestire con lana minerale  
 1619 2112 00(AR)

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Axle  
As  
Axel  
Achse  
Essieu  
Eje  
Assale

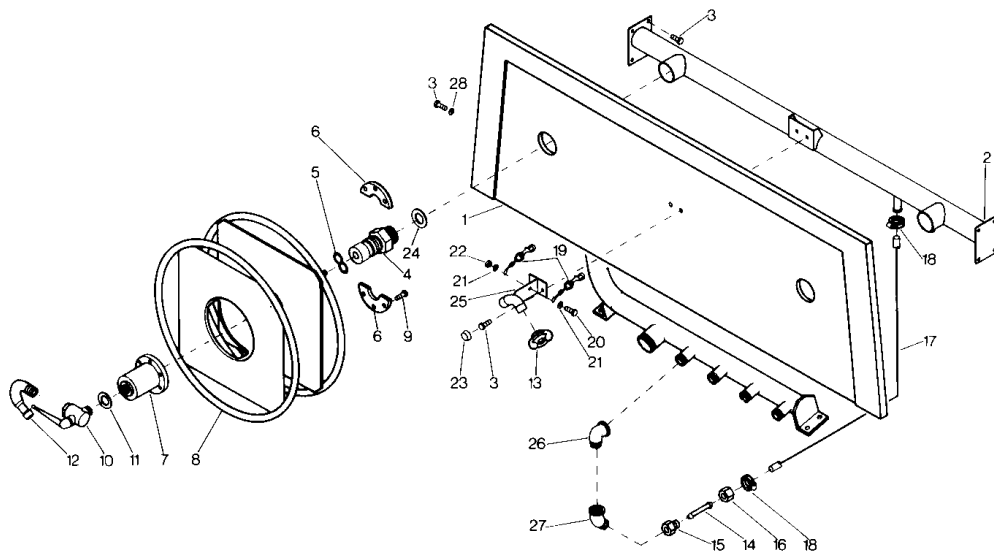


Ref.	A	B	C	D	Designation
-	1616 4460 00		.....	1	Axle
1	***	•	.....	1	Housing
2	1619 0164 00	•	.....	2	Castled nut
3	0111 1375 00	•	.....	2	Split pin
4	1619 2802 00	•	.....	2	Seal ring
5	1619 2801 00	•	.....	2	Seal ring
6	2900 0793 00	•	.....	2	Shackle
7	2900 0794 00	•	.....	2	Clasp
8	2900 0795 00	•	.....	2	Spring
9	2900 0796 00	•	.....	2	Hook
10	2900 0797 00	•	.....	4	Block
11	2900 0798 00	•	.....	2	Tightener
12	2900 0799 00	•	.....	2	Nut
-	2900 1015 00	•	.....	2	Brake shoe
13	2900 0800 00	••	.....	2	Spring

Ref.	A	B	C	D	Designation
14	***	••	.....	1	Retainer
15	***	••	.....	1	Shoe
16	2900 0803 00	•	.....	2	Shoe
17	2900 0804 00	•	.....	2	Spring
18	2900 0805 00	•	.....	2	Spring
19	2900 0806 00	•	.....	2	Brake drum
20	2900 0807 00	•	.....	10	Bolt
21	1619 2805 00	•	.....	2	Bearing
22	1619 2806 00	•	.....	2	Bearing
23	2900 0684 00	•	.....	2	Cap
24	2900 0808 00	•	.....	2	Plug
25	2900 1009 00	•	.....	2	Retainer

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Hose reels (optional)  
 Haspels voor slangen (als optie)  
 Slanghasplar (extra utrustning)  
 Schlauchhaspel (Wahlfrei)  
 Dévidoir pour flexibles (option)  
 Devanadera para manguera (como opción)  
 Avvolgitubi (su richiesta)



Ref.	A	B	C	D	Designation	Ref.	A	B	C	D	Designation
1	1616 5182 00			1	Cover	16	9000 0333 00			2	Cap nut
2	1616 5180 00			1	Manifold	17	0072 8403 26			AR	Hose
3	1619 2766 00			14	Bolt	18	9000 0196 00			4	Clamp
4	1614 4948 00			2	Spindle	19	1614 4961 00			2	Hook
5	0663 3133 00			2	O-ring	20	0147 1249 03			1	Bolt
6	1614 4950 00			4	Retainer	21	0300 0130 00			2	Washer
7	1614 4947 00			2	Housing	22	0291 1108 00			1	Lock nut
8	1614 4945 00			2	Hose reel	23	1613 3672 00			2	Cap
9	0211 1325 03			12	Cap screw	24	0653 1254 00			2	Gasket
10	1614 4949 00			2	Valve	25	1616 5181 00			1	Support
11	0661 1038 00			2	Gasket	26	0560 1306 00			2	Elbow
12	1614 4951 00			2	Connector	27	0560 0306 00			2	Elbow
13	9000 0301 00			2	Coupling	28	0300 8005 00			8	Washer
x	9000 0000 00	•		1	Gasket	39_178_1_0_0					
14	9000 0325 00			2	Nipple						
15	9000 0351 00			2	Adaptor						



**Contents "Service kits"**  
**Inhoud "Service kits"**  
**Innehåll "Service kits"**  
**Inhaltsverzeichnis "Service kits"**  
**Table des matières "Service kits"**  
**Indice "Service kits"**  
**Indice "Kit per la manutenzione"**

A	C	D	Reference to pages
<b>Kit 2910 0156 00</b>		1	5
<b>Seal kit</b>			
0663 7141 00		1	
1619 3856 00		1	
1619 3857 00		1	
<b>Kit 2910 3005 00</b>		1	23
<b>Regulating valve</b>			
0333 3232 00		2	
0517 1420 00	1)	1	
0653 1062 00		2	
0663 3131 00	1)	1	
0663 3132 00	1)	1	
0663 6112 00	1)	1	
1012 0356 00	1)	1	
2250 5842 00	1)	1	
2250 5843 00	1)	1	
2252 4060 00	1)	1	
<b>Kit 2910 3006 00</b>		1	19,25
<b>Speed regulator</b>			
0333 3227 00		2	
0653 1046 00		2	
0663 2131 00	1)	2	
0663 7512 00	1)	1	
0665 9109 00	1)	1	
2250 5875 00	1)	2	
<b>Kit 2910 3007 00</b>		1	19,26,27
<b>Loading valve</b>			
0653 1046 00		2	
0653 1062 00		3	
0663 3116 00	1)	3	
0663 7110 00	1)	1	
0663 7126 00	1)	2	
<b>Kit 2910 3009 00</b>		1	9,11,21
<b>Oil stop valve</b>			
0661 1033 00	1)	1	
0661 1049 00	1)	2	
0663 3120 00		1	
0663 7135 00		1	
<b>Kit 2910 3012 00</b>		1	19,22
<b>Regulating valve</b>			
0517 1420 00	1)	1	
0653 1062 00		2	
0663 3132 00	1)	1	
0663 6112 00	1)	1	
1012 0356 00	1)	1	
2250 5842 00	1)	1	
2250 5843 00	1)	1	
2250 5847 01	1)	1	
2250 5850 00	1)	1	
<b>Kit 2910 3029 00</b>		1	15,17,24
<b>Minimum pressure valve</b>			
0333 3220 00	1)	4	
0333 3237 00		2	
0653 1046 00		4	
0653 1165 00		1	
0653 1189 00		1	
0663 7135 00	1)	1	
0663 9868 00		1	

A	C	D	Reference to pages	A	C	D	Reference to pages
1202 9973 00		1		1202 7015 00		1	
1613 3223 01	1)	1		1202 7017 00		1	
1619 6928 00	1)	1		1613 2216 13		2	
<b>Kit 2910 3035 00</b>		1	7,19,20	1619 3856 00		1	
<b>Unloading valve</b>				1619 3857 00		1	
0653 1046 00		1		<b>Kit 2910 4046 00</b>		1	7,9,11,15,17,19,29
0653 1062 00	1)	2		<b>Compressor element mounting kit</b>			
0653 9038 00	1)	1		0653 1062 00		2	
1202 7024 00		1		0661 1033 00		2	
1202 7391 00	1)	1		0663 3120 00		1	
1619 5531 00	1)	1		0663 7135 00		1	
<b>Kit 2910 4045 00</b>	1)	1	5	0663 7138 00		1	
<b>Compressor element overhaul kit</b>				1202 7024 00		1	
0147 1369 03		1		<b>Kit 2910 6007 00</b>		1	9,11,15,17,19
0147 1409 03		3		<b>Air receiver</b>			
0502 1090 21		1		0333 3237 00		4	
0502 2106 00		1		0653 1046 00		4	
0502 3107 00		1		0653 1062 00		3	
0504 0600 04		4		0653 1227 00		1	
0504 2510 00		1		0661 1033 00		1	
0508 2108 01		2		0661 1038 00		1	
0653 1046 00		2		0663 7135 00		1	
0653 1062 00		1		0663 9868 00		1	
0663 3117 00		1		1202 9973 00		1	
0663 7141 00		1		1202 7007 00		2	
1202 7012 00		1					

1) Parts needed to overhaul the respective sub-assembly, all other parts of the kit to be used for mounting the sub-assembly into the unit /  
 Componenten nodig voor de revisie van het respectievelijke onderdeel, alle andere componenten van de kit gebruiken om het onderdeel in de groep te monteren /  
 Delar som behövs till ifrågakvarande komponentens översyn; alla andra delar i "service kit" skall användas till montering av komponenten i aggregatet /  
 Komponenten nötig um die respektive Baueinheit zu überholen, alle anderen Komponenten vom "Service Kit" sind zu verwenden um die Baueinheit in die Gruppe einzubauen /  
 Pièces nécessaires pour la révision du composant respectif; utiliser toutes les autres pièces du kit pour la pose du composant dans le groupe /  
 Piezas necesarias para la revisión del subconjunto respectivo; utilizar todas las otras piezas del "kit" para montar el subconjunto en el grupo /  
 Parti necessarie per revisionare il rispettivo sotto-gruppo; tutte le altre parti del kit devono essere usate per montare il sotto-gruppo sull'unità

**"Service Pak" Maintenance kits**  
**"Service Pak" Onderhoudskits**  
**"Service Pak" Underhållsutrustningar**  
**"Service Pak" Wartungssätze**  
**"Service Pak" Kit d'entretien**

**Equipos de mantenimiento**  
**"Service Pak"**  
**"Service Pak" Kit per la manutenzione**

A	D	Designation	A	D	Designation
2905 0575 01	1	XA(S)125Dd/250h	2905 0576 01	1	XA(S)175Dd/250h
2905 0575 02	1	XA(S)125Dd/500h	2905 0576 02	1	XA(S)175Dd/500h
2905 0575 01	1	XA(S)125Dd/750h	2905 0576 01	1	XA(S)175Dd/750h
2905 0596 03	1	XA(S)125Dd/1000h	2905 0576 03	1	XA(S)175Dd/1000h
2910 0156 00 02/2910 3005 00 02/2910 3006 00 04/2910 3007 00 04/2910 3009 00 01/ 2910 3012 00 04/2910 3029 00 09/2910 3035 00 03/2910 4045 00 04/2910 4046 00 03/ 2910 6007 00 03/8059 2137 21 03/8059 2137 39 03/8070 2218 28 01/8070 2218 36 01/ 8092 2294 11 02/8162 0226 05 01/8162 0226 13 01/8162 0320 00 11/8162 0320 18 05/ 8162 0320 42 10/8162 0320 83 04/8162 0321 09 11/8162 0321 17 05/8162 0321 25 11/ 8162 0321 33 06/8162 0321 41 13/8162 0321 58 07/8162 0321 66 11/8162 0321 74 05/ 8162 0321 82 13/8162 0322 08 14/8162 0323 07 12/8162 0323 15 11/8162 0323 23 05/ 8162 0323 31 05/8162 0323 49 08/8162 0323 58 08/8162 0323 64 07/8162 0323 72 05/ 8162 0323 80 06/8162 0323 98 05/8162 0324 06 12/8162 0324 22 02/8162 0324 30 03/ 8162 0324 63 01/8162 0324 87 01/8162 0325 05 06/8162 0325 21 05/8162 0325 72 04/ 8162 0325 88 02/8162 0325 96 03/8162 0326 12 03/8162 0326 20 04/8162 0326 38 03/ 8162 0326 46 07/8162 0326 61 01/8162 0326 79 01/8162 0326 95 01/8162 0420 09 08/ 8162 0420 17 05/8162 0420 31 04/8162 0420 90 05/8162 0421 08 06/8162 0421 16 05/ 8162 0421 24 10/8162 0421 32 08/8162 0421 40 08/8162 0421 40 08/8162 0421 57 06/ 8162 0421 65 03/8162 0421 73 07/8162 0421 81 07/8162 0422 07 07/8162 0423 06 09/ 8162 0428 68 01/8162 0428 84 01 48_092_0_0_4					

## CHECK LIST ON PARTS

**Atlas Copco**

1991 - 04

**This Atlas Copco check list on parts:**

\* Solely refers to

Product : **XA175 E**  
Serial number(s) : **ARP - 923 362**  
Customer : **PUNTA DEL COBRE**  
Project number : **99443**

- \* Is a supplement to the parts list with printed matter number 2930 1059 00  
Both publications must be used together
- \* Gives information on the most important parts that are comprised in the  
above-specified product; of parts only listed in the accompanying parts  
list must be checked whether they are comprised in the product specified  
above
- \* Locates the parts either by page and reference number as used in the  
accompanying parts list or by a remark
- \* Overrides the information of the accompanying parts list but only for  
these parts mentioned in this check list
- \* Parts preceded by one section mark (\$) are comprised in the assembly(ies)  
listed above the first section mark.  
Parts preceded by two section marks (\$\$) are comprised in the  
assembly(ies) listed above the first two section marks.

**ATLAS COPCO AIRPOWER n.v. - B-2610 WILRIJK - BELGIUM**

Printed Matter No. 2930 1059 30 - 1/6

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PAGE	REF	B	PART NUMBER	QTY	DESIGNATION	REMARKS
****	***	**	*****	***	*****	*****
<b>Compressor element and drive gear</b>						
5	1		1613 2189 82	1	Compressor element	
5	3		1202 7015 00	1	Gasket	
5	6		1202 5440 00	1	Drive shaft	
5	7		0502 1090 21	1	Bearing	
5	8		0504 2510 00	1	Bearing	
5	10		1613 2200 00	1	Bush	
5	11		1613 2201 00	1	Retainer	
5	12		1619 3857 00	1	Seal ring	
5	13		0663 7141 00	1	O-ring	
5	16		1202 8154 00	1	Gearwheel	
5	23		1615 4183 07	1	Coupling half	Compressor side
5	24		1615 4362 00	1	Coupling element	
5	26		1615 4183 08	1	Coupling half	Motor side
5	32		1619 3856 00	1	Seal ring	
<b>Air inlet</b>						
7	-		1616 4445 00	1	Air filter	
7	3	\$	1619 2799 00	1	Element	
7	22		1619 3790 01	1	Warning device	
7	23		1619 3794 00	1	Felt disc	
7	24		0657 5742 00	1	Gasket	
7	26		0653 1046 00	1	Gasket	
7	28		2250 8002 00	1	Hump hose	
7	61		1202 7024 00	1	Gasket	
<b>Oil system and cooling</b>						
9	1		1616 5025 00	1	Oil cooler	
9	10		1612 2668 00	1	Housing	
9	14		1613 6105 00	1	Oil filter	
9	34		1616 4491 01	1	Fan	
9	x	\$	2900 1014 00	10	Fan blade	
9	37		1616 4787 00	2	Screen	
9	49		1613 2609 07	1	Restrictor	
9	50		0574 8461 38	1	Hose assembly	
9	56		0575 0125 24	1	Hose assembly	
9	58		0575 0125 31	1	Hose assembly	
9	62		0663 3120 00	1	O-ring	
9	63		0663 7135 00	1	O-ring	
<b>Air receiver and delivery pipes</b>						
15	-		1616 4600 80	1	Air receiver	
15	2	\$	1616 4616 00	1	Cover	
15	4	\$	1202 7007 00	2	Gasket	



PAGE	REF	B	PART NUMBER	QTY	DESIGNATION	REMARKS
****	***	**	*****	***	*****	*****
15	10		1612 3312 00	1	Level gauge	
15	11		0661 1033 00	1	Gasket	
15	17		0830 2093 00	1	Safety valve	
15	18		0653 1165 00	1	- Gasket	
15	20		1202 7000 00	1	Gasket	
15	27		0663 7138 00	1	O-ring	
15	30		0663 7135 00	2	O-ring	
15	35		1616 4619 02	1	Hose assembly	
15	36		0663 9868 00	2	O-ring	
15	43		1616 4656 00	1	Oil separator	
15	46		1202 6456 00	1	Non return valve	
15	47		1613 5165 00	1	Spring	

#### Connections for speed regulation and unloading

19	27		0574 8102 27	1	Hose assembly	
19	33		1404 1332 00	1	Hose assembly	
19	34		0574 8102 44	1	Hose assembly	From regulating valve to shuttle valve
19	35		0574 8012 07	1	Hose assembly	From pressure gauge to Tee regulating valve
19	38		0574 8102 48	1	Hose assembly	From Tee regulating valve to Tee minimum pressure valve
19	44		9128 1308 01	1	Blow-down valve	
19	55		0574 9012 13	1	Hose assembly	

#### Added to list

-	-		8204 0930 10	1	Shuttle valve	
-	-		1089 0351 32	1	Solenoid valve	
-	-		0574 8402 22	1	Hose assembly	From solenoid valve to minimum pressure valve
-	-		0574 9212 31	1	Hose assembly	From shuttle valve to Tee unloader

#### Unloading valve

20	-		1614 4382 81	1	Unl. valve	
20	2	\$	1614 5062 00	1	Valve	
20	-	\$	1619 5531 00	1	Seal ring	
20	6	\$	1613 3231 00	1	Spring	
20	10	\$	1613 2398 00	1	Gasket	
20	11	\$	1613 2399 00	1	Valve	

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PAGE	REF	B	PART NUMBER	QTY	DESIGNATION	REMARKS
****	***	**	*****	***	*****	*****

**Oil stop valve**

21	-		1613 2355 82	1	Oil stop valve	
21	2	\$	1613 2356 00	1	Valve	
21	3	\$	1613 2357 00	1	Spring	
21	6	\$	1613 2359 00	1	Piston	

**Regulating valve**

22	-		2252 0495 80	1	Regul. valve	
22	2	\$	2250 5843 00	1	Gasket	
22	-	\$	2250 5844 81	1	Seat	
22	6	\$	2252 1427 00	1	Spring	
22	7	\$	0517 1420 00	1	Ball	
22	8	\$	2252 1135 00	1	Retainer	
22	9	\$	2250 5850 00	1	Membrane	
22	12	\$	2250 5847 01	1	Membrane	
22	14	\$	0663 6112 00	1	O-ring	
22	16	\$	0663 3132 00	1	O-ring	
22	17	\$	2252 1428 00	1	Spring	
22	18	\$	2250 5854 00	1	Seat	
22	23	\$	2250 5842 00	1	Gasket	
22	24	\$	1012 0356 00	1	Filter	

**Minimum pressure valve**

24	-		1613 3219 80	1	Minimum pressure valve	
24	2	\$	1613 3221 00	1	Valve	
24	6	\$	1612 4049 00	1	Spring	
24	7	\$	1613 3220 00	1	Piston	
24	8	\$	1619 6928 00	1	Seal ring	
24	9	\$	1612 4048 00	1	Spring	
24	11	\$	0663 7135 00	1	O-ring	

**Control panel**

27	6		1619 5268 00	1	Press. gauge	
27	7		1089 9076 01	2	Lampholder	
27	-		1089 9108 02	2	Lamp	
27	9		1089 0362 04	1	Push button	
27	11		1089 0362 05	1	Push button	
27	13		1089 0303 01	1	Hourmeter	

**Electrical equipment**

29	29		1089 0376 11	1	Temp. switch	
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PAGE	REF	B	PART NUMBER	QTY	DESIGNATION	REMARKS
****	***	**	*****	***	*****	*****

**Frame and mountings**

37	18		1619 3728 00	2	Rubber pad	
37	38		1619 7301 00	1	Wheel	
37	44		1615 4778 01	2	Brake cable	

**Non-adjustable towbar - with brakes**

39	-		1202 9365 82	1	Towbar	
39	1	\$	1202 9249 00	1	Shock absorber	
39	8	\$	1202 9251 00	1	O-ring	
39	13	\$	2900 0814 00	1	Cable	
39	26	\$	2900 1137 00	1	Spring	
39	30	\$	2914 2004 00	1	Brake cable	
					- "	

**Engine, accessories and exhaust**

43	1		1080 2580 02	1	Motor	
43	49		1202 9006 03	2	Rubber pad	

**Axle**

46	-		1616 4460 00	1	Axle	
46	4	\$	1619 2802 00	2	Seal ring	
46	5	\$	1619 2801 00	2	Seal ring	
46	6	\$	2900 0793 00	2	Shackle	
46	8	\$	2900 0795 00	2	Spring	
46	-	\$	2900 1015 00	2	Brake shoe	
46	13	\$	2900 0800 00	2	Spring	
46	16	\$	2900 0803 00	2	Shoe	
46	17	\$	2900 0804 00	2	Spring	
46	18	\$	2900 0805 00	2	Spring	
46	19	\$	2900 0806 00	2	Brake drum	
46	21	\$	1619 2805 00	2	Bearing	
46	22	\$	1619 2806 00	2	Bearing	

**Added list**

-	-		1900 0120 54	1	Cubicle	
-	-	\$	1612 9001 00	1	Cubicle	
-	-	\$	1613 2925 00	1	Mounting panel	
-	-	\$	1089 9136 16	1	Transformer	T1
-	-	\$	1089 9221 10	1	Contact	K21
-	-	\$	1089 9205 06	1	Overload relay	F21
-	-	\$	1089 9173 02	1	Phase sequence relay	K25
-	-	\$	1089 9277 05	1	Time relay	K2

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PAGE	REF	B	PART NUMBER	QTY	DESIGNATION	REMARKS
****	***	**	*****	***	*****	*****
-	-	\$	1089 9146 03	1	Relay	K1
-	-	\$	1089 9203 03	1	Circuit breaker	F4
-	-	\$	9828 0279 05	1	Label	
-	-	\$	1089 9203 04	3	Circuit breaker	F1, F2 and F3

