

INGERSOLL-RAND

XHP660 XHP760 PORTABLE COMPRESSOR

CATERPILLAR ENGINE

PORTABLE COMPRESSOR CATERPILLAR ENGINE
OPERATION AND MAINTENANCE MANUAL
with parts catalogue

COMPRESSEUR PORTABLE MOTEUR CATERPILLAR
MANUAL D'UTILISATION ET D'ENTRETIEN
avec catalogue de pièces détachées

BEDIENINGS EN ONDERHOUDSHANDBOEK
onderdelenkatalogus

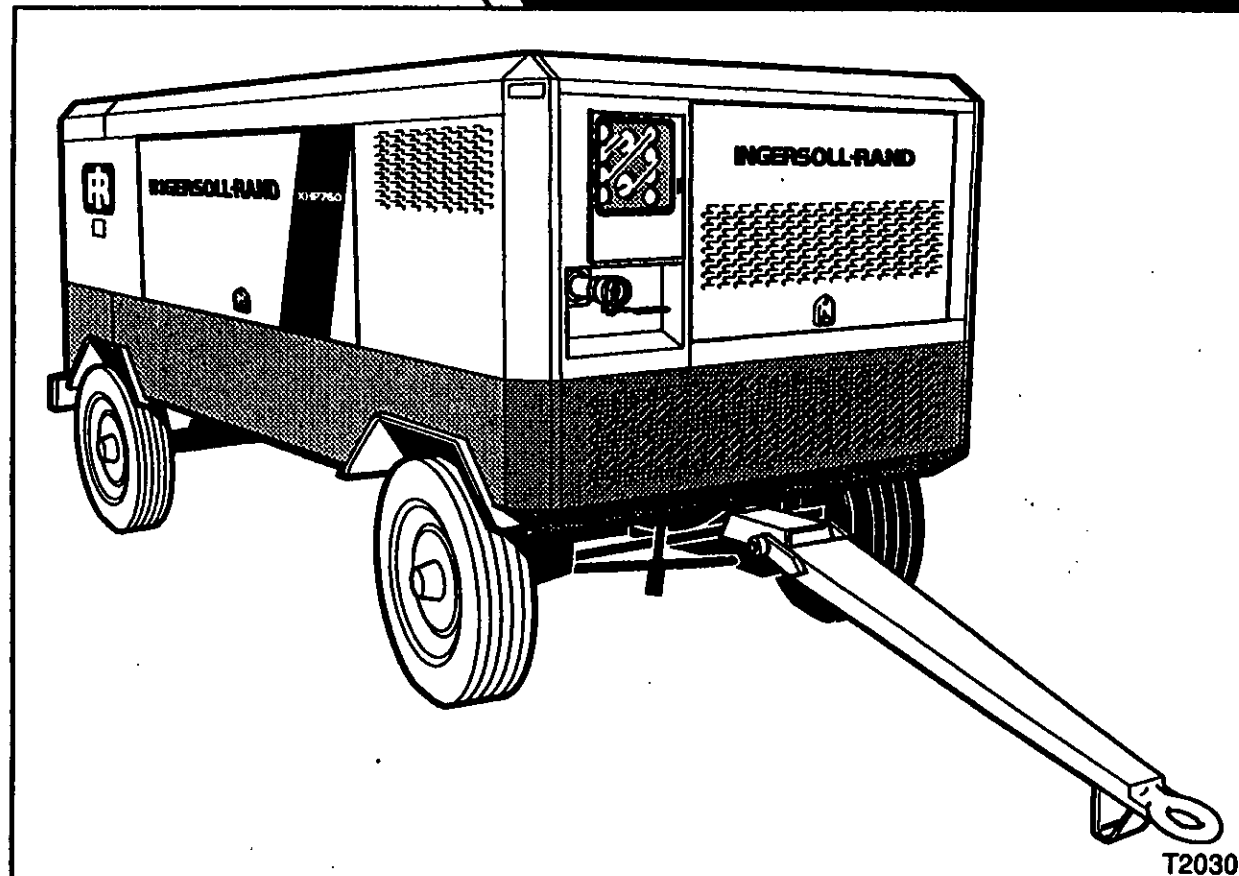
FAHRBARER KOMPRESSOR CATERPILLARMOTOR
BEDIENUNGS-UND WARTUNGSANLEITUNG
mit ersatzteilliste

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C.P.N. : 92956382

ISSUE : 1

DATE : October 1992 Revised (09-12)



SERIAL NUMBER RANGE

860010

TO

860019

WARNINGS

Warnings call attention to instructions which must be followed precisely to avoid injury or death.

CAUTIONS

Cautions call attention to instructions which must be followed precisely to avoid damaging the product, process or its surroundings.

NOTES

Notes are used for supplementary information.

SAFETY PRECAUTIONS

1. **WARNING:** Ensure that the operator reads and *understands* the decals and consults the manual before maintenance or operation.
2. **WARNING:** Make sure that all protective covers are in place and that the canopy/doors are closed during operation.
3. **WARNING:** When parking, ensure the use of the handbrake and also wheel chocks if required.
4. **WARNING:** Compressed air can be dangerous if incorrectly handled. Before doing any work on the unit, ensure that all pressure is vented from the system and that the machine cannot be started accidentally.
5. **WARNING:** Avoid bodily contact with compressed air.

ATTENTION !

L'indication "attention" précise que les instructions doivent être suivies absolument pour éviter tout accident grave.

PRECAUTIONS A PRENDRE

L'indication "précautions à prendre" précise que les instructions doivent être suivies absolument pour éviter d'endommager le produit, le processus ou son environnement.

NOTES

L'indication "notes" donne des compléments d'information.

PRECAUTION POUR LA SECURITE

WAARSCHUWING!

Waarschuwing! vestigt de aandacht op instructies die strikt opgevolgd dienen te worden om ernstige persoonlijke ongelukken te voorkomen die in het uiterste geval de dood tot gevolg kunnen hebben.

VOORZICHTIG!

'Voorzichtig' vestigt de aandacht op instructies die strikt gevolgd dienen te worden om schade aan het product en/of de omgeving te voorkomen.

N.B.

Een N.B. dient om aanvullende informatie te verstrekken.

VEILIGHEIDSMATREGELEN

WARNUNG

Warnungen lenken die Aufmerksamkeit auf genau einzuhaltende Vorschriften zur Vermeidung von Verletzungen oder Todesfällen.

ACHTUNG

Achtung lenkt die Aufmerksamkeit auf genau einzuhaltende Instruktionen, um Schaden des Produktes, des Verfahrens oder der Umgebung zu vermeiden.

HINWEISE

Hinweise dienen zur weiteren Information.

SICHERHEITSVORKEHRUNGEN

1.2

SAFETY

SECURITE

VEILIGHEID

SICHERHEIT

XHP 660 CA
XHP 760 CA

6. **WARNING:** Ensure that adequate ventilation of the cooling system and exhaust gases is maintained at all times.

7. **WARNING:** The following substances are used in the manufacture of this machine and *may* be hazardous to health if used incorrectly:

- . anti-freeze
- . compressor lubricant
- . engine lubricant
- . preservative grease
- . rust preventative
- . diesel fuel
- . battery electrolyte

AVOID INGESTION, SKIN CONTACT AND INHALATION OF FUMES

8. **WARNING:** The following substances *may* be produced during the operation of this machine:

- . brake lining dust
- . engine exhaust fumes

AVOID INHALATION

9. **WARNING:** Components of a non-metallic fibrous material may contain small quantities of white asbestos. When handling, dismantling or assembling these components, the following must be observed:

- . *Always operate in a well ventilated area.*
- . *Dispose of waste in a sealed container.*
- . *Use water to damp down dust.*
- . *Avoid inhalation of dust particles.*



10. **CAUTION:** *The safety valve located in the separator tank must be periodically checked for correct operation (at least every 2 years).*

11. **CAUTION:** *For the life of the machine, periodically check all pressure hoses and connections for visible deterioration.*

12. **CAUTION:** *If the unit is to be connected to a common header or together with another source of compressed air, then it is essential that a check valve is fitted.*

13. **NOTE:** Before towing, ensure that the brakes and lights are functioning correctly and meet necessary road traffic requirements.

14. **NOTE:** In compliance with EC directive 86/188/EEC on *Noise at the Workplace*, the following data is supplied:

The average sound pressure level at a 10m radius measured to 79/113/EEC is 72dB (A).

Further information may be obtained by request through Ingersoll-Rand customer services department.

2.0

CONTENTS

XHP 660 CA
XHP 760 CA

1. SAFETY.

2. CONTENTS.

3. FOREWORD.

4. GENERAL INFORMATION.

Dimensions.
Data.

5. OPERATING INSTRUCTIONS.

Commissioning.
Prior to starting.
Starting.
Cold weather starting.
Stopping.
Emergency stopping.
Re-starting.
Monitoring during operation.

6. MAINTENANCE.

Routine maintenance.
Lubrication.
Speed & pressure regulation.
Torque settings table.

7. MACHINE SYSTEMS.

Electrical system.
Piping & instrumentation system.

8. FAULT FINDING.

9. OPTIONS.

10. PARTS CATALOGUE

10

10

10

- 10.0 Running gear
- 10.1 Engine assembly
- Airend assembly
- 10.2 Enclosure
- 10.3 Air intake system / Exhaust system / Lifting bail
- 10.4 Oil/air piping
- 10.5 Fuel system
- 10.6 Regulation system
- 10.7 Cooling system
- 10.8 Instrumentation
- 10.9 Battery
- 10.10 Wiring harness
- 10.11 Decal positions

11. RECOMMENDED PARTS

12. FASTENERS INDEX

13. TUBE FITTINGS INDEX

14. PARTS INDEX

ABBREVIATIONS

*	Not illustrated
AR	As required
D	Germany
DK	Denmark
E	Spain
F	France
GB	Great Britain
I	Italy
N	Norway
NL	Netherlands
P	Portugal
S	Sweden

ABBREVIATIONS

*	Non illustré
AR	Comme demandé
D	Allemagne
DK	Danemark
E	Espagne
F	France
GB	Angleterre
I	Italie
N	Norvege
NL	Hollande
P	Portugal
S	Suede

AFKORTINGEN

*	Niet geïllustreerd
AR	Als vereist
D	Duitsland
DK	Denemarken
E	Spanje
F	Frankrijk
GB	Groot Brittanië
I	Italië
N	Noorwegen
NL	Nederland
P	Portugal
S	Zweden

KÜRZEL

*	Nicht abgebildet
AR	Wie erforderlich
D	Deutschland
DK	_____
E	_____
F	_____
GB	_____
I	Italien
N	_____
NL	_____
P	_____
S	_____

3.0

FOREWORD

XHP 660 CA
XHP 760 CA

FOREWORD

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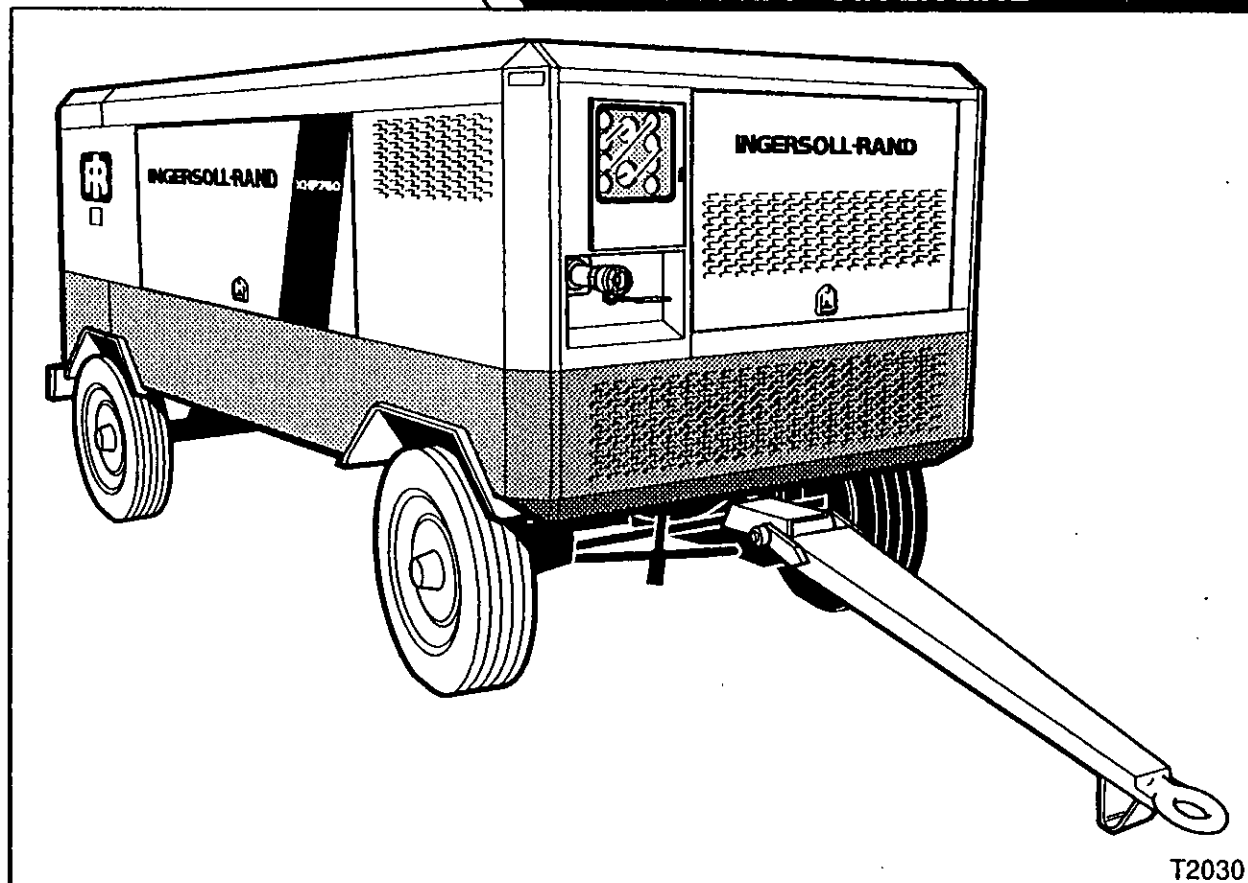
CATERPILLAR ENGINE

OPERATION AND MAINTENANCE MANUAL

MANUAL D'UTILISATION ET D'ENTRETIEN

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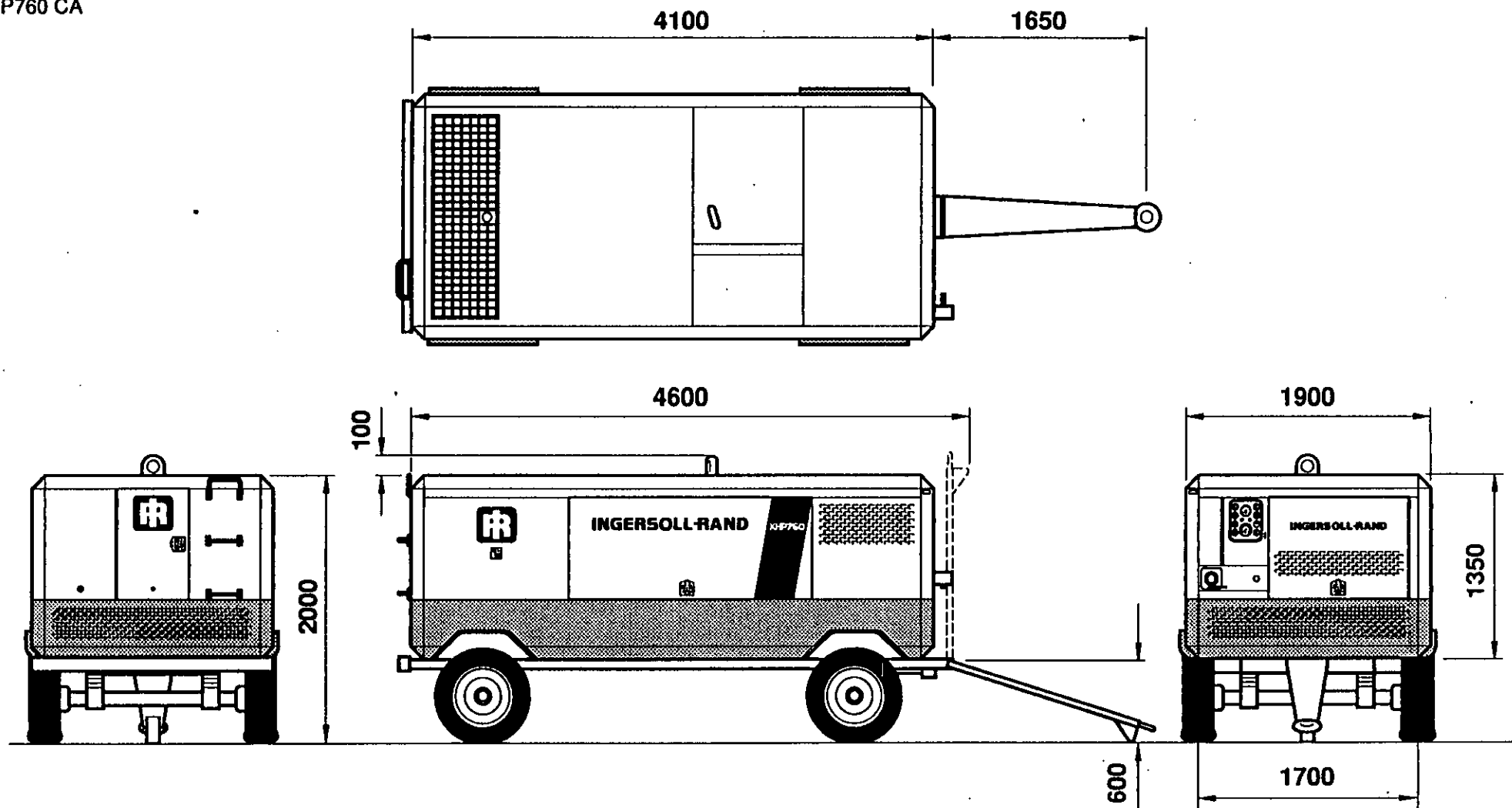


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GENERAL INFORMATION

XHP660 CA
XHP760 CA





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GEBRUIK ALLEEN ORIGINELE ONDERDELEN VAN INGERSOLL-RAND

NUR ORIGINAL-INGERSOLL-RAND-ERSATZTEILE VERWENDEN

4.2

GENERAL INFORMATION

XHP 660 CA
XHP 760 CA

COMPRESSOR

Model.	XHP 760
Actual free air delivery.	750 CFM
Normal operating pressure.	300 psi, 20.6 bar
Model.	XHP 660
Actual free air delivery.	650 CFM
Normal operating pressure.	350 psi, 24.1 bar
Operating ambient temperature.	-10C to +46C
Oil capacity.	100 litres

ENGINE

Type/Model	CAT 3306 DITA
No. of cylinders.	6
Oil capacity	34 litres
Speed at full load.	1850 rpm
Speed at idle.	1200 rpm
Electrical system.	24V DC Neg. Earth
Power available at 1850 rpm	300 bph (231kW)
Cooling system.	45 Litres
Fuel tank capacity.	500 litres

WEIGHTS

UNBRAKED VERSION

Shipping weight.	4800 Kg
Gross weight.	5200 Kg

Number of wheels.	4
Tyre size.	750x16x12PR
Tyre pressure.	6.75 bar



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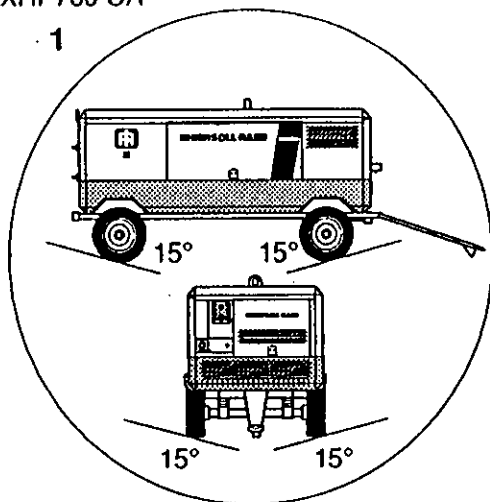
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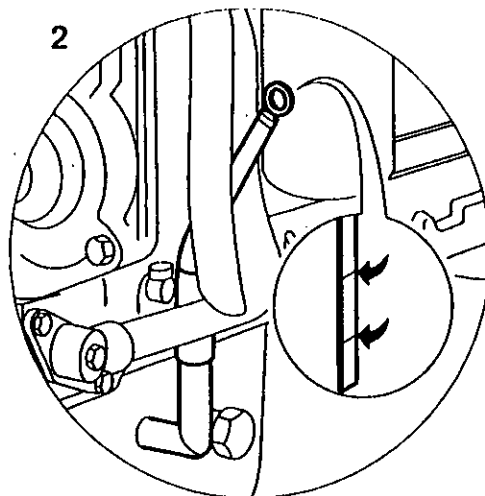
OPERATING INSTRUCTIONS

XHP660 CA
XHP760 CA

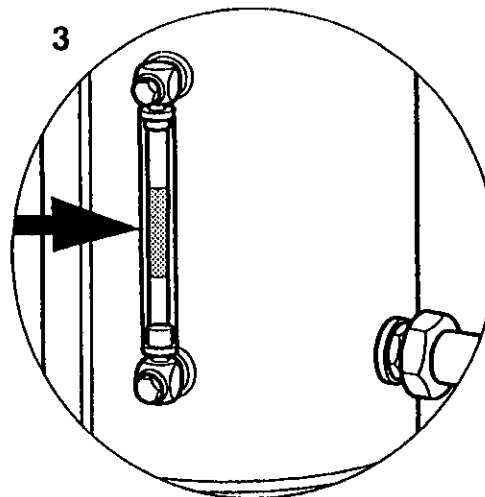
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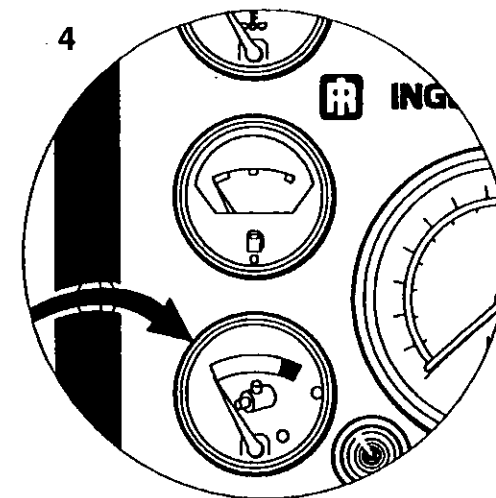
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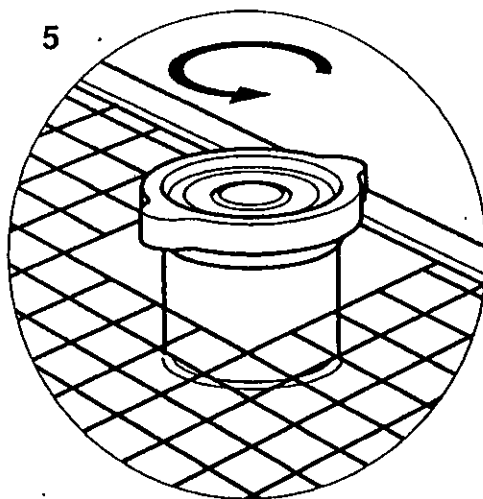
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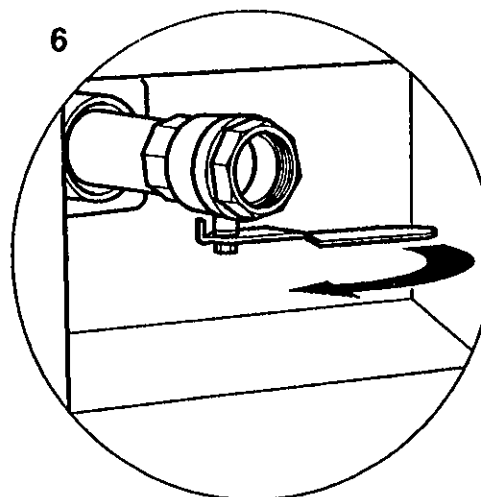
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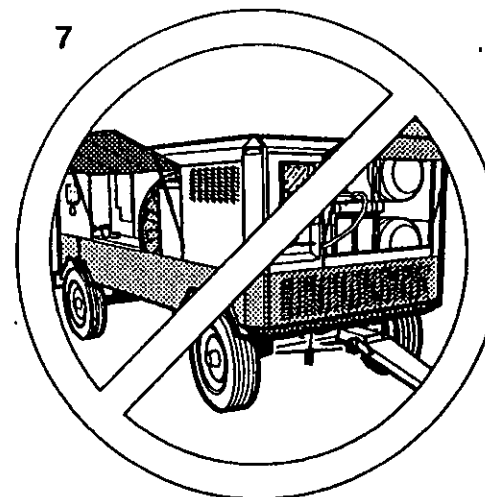
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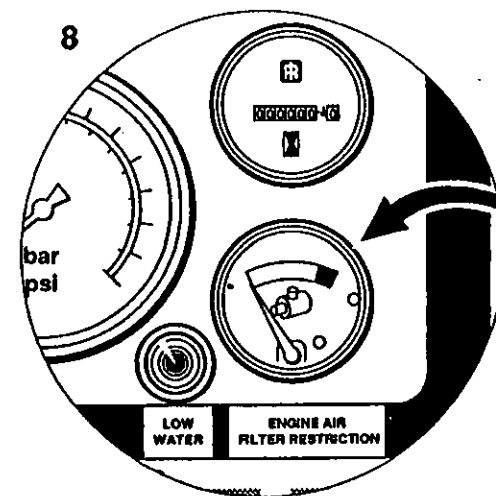
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8



COMMISSIONING

Upon receipt of the unit, and prior to putting it into service, it is important to adhere strictly to the instructions given below in *PRIOR TO STARTING*.

Before towing the unit, ensure that the tyre pressures are correct (refer to the *GENERAL INFORMATION* section of this manual) and that the handbrake is functioning correctly (refer to the *MAINTENANCE* section of this manual). Before towing the unit during the hours of darkness, ensure that the lights are functioning correctly (where fitted).

PRIOR TO STARTING

Refer to the diagram on page 5.0

1: Place the unit in a position that is as level as possible. The design of the unit permits a 15 degree lengthways and sideways limit on out of level operation. It is the engine, not the compressor, that is the limiting factor. When the unit has to be operated out of level, it is important to keep the engine oil level near the high level mark (with the unit level).

CAUTION: Do not overfill either the engine or the compressor with oil.

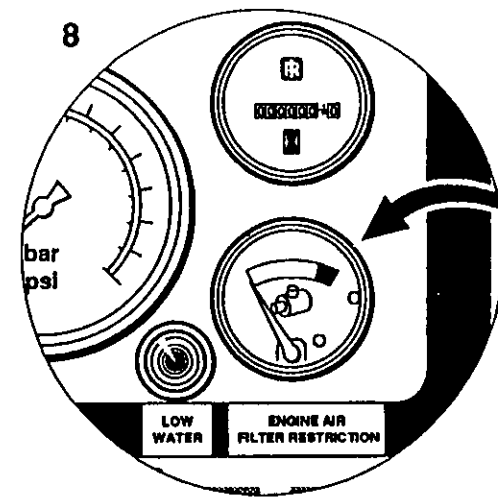
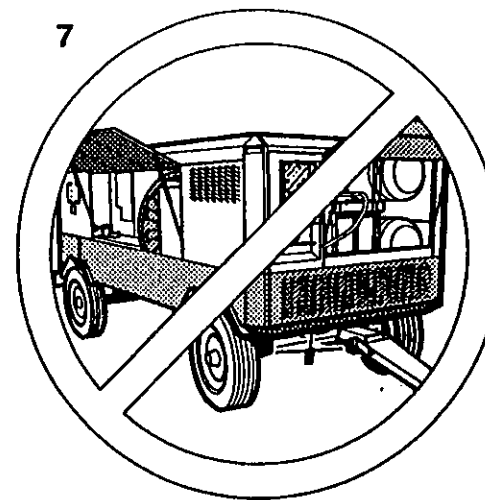
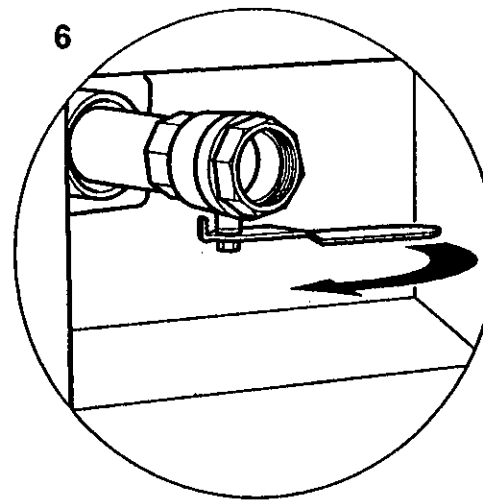
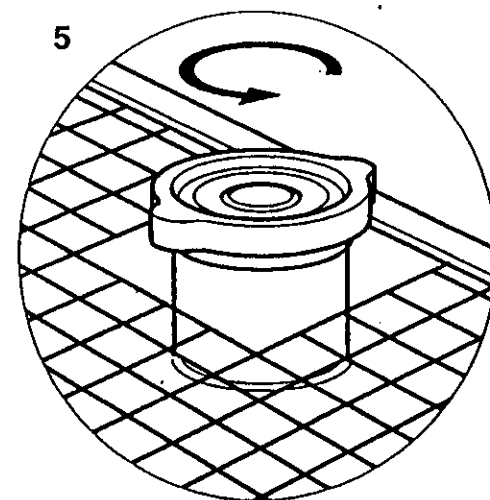
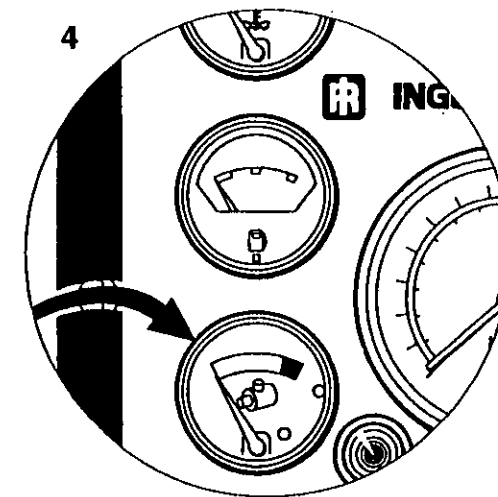
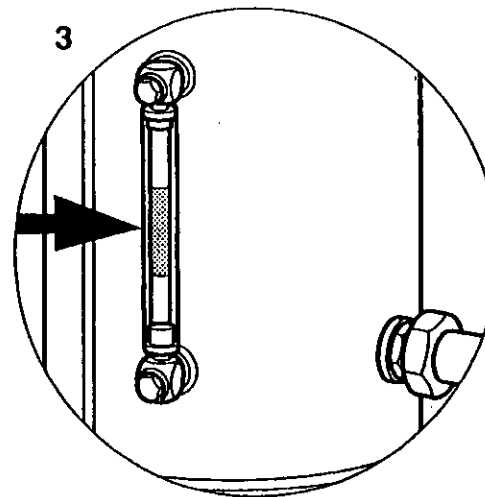
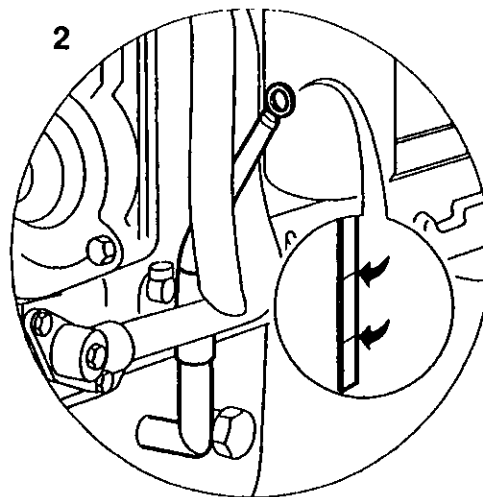
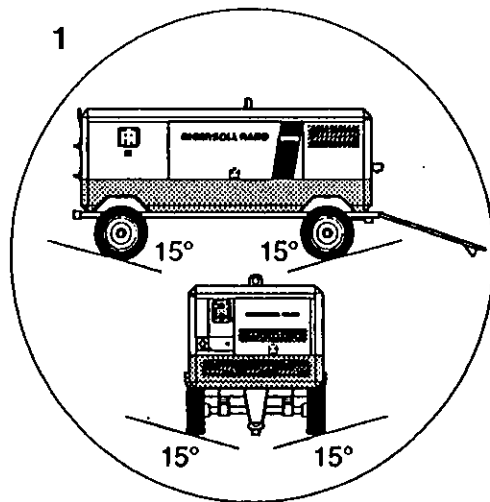
2: Check the engine lubrication oil in accordance with the operating instructions in the *Engine Operator's Manual*.

3: Check the compressor oil level in the sight glass located on the separator tank.

5.2

OPERATING INSTRUCTIONS

XHP660 CA
XHP760 CA



PRIOR TO STARTING
continued.....

4. Check the diesel fuel level. A good rule is to top up at the end of each working day. This prevents condensation from occurring in the tank.

CAUTION: Use only a No. 2-D diesel fuel oil with a minimum octane number of 45 and a sulphur content not greater than 0.5%.

5. Check the radiator coolant level (with the unit level).

6. Close all the service valves to allow full air pressure, this ensures proper oil circulation.

7: **CAUTION:** Do not operate the machine with the canopy/doors in the open position as this may cause overheating and operators to be exposed to high noise levels.

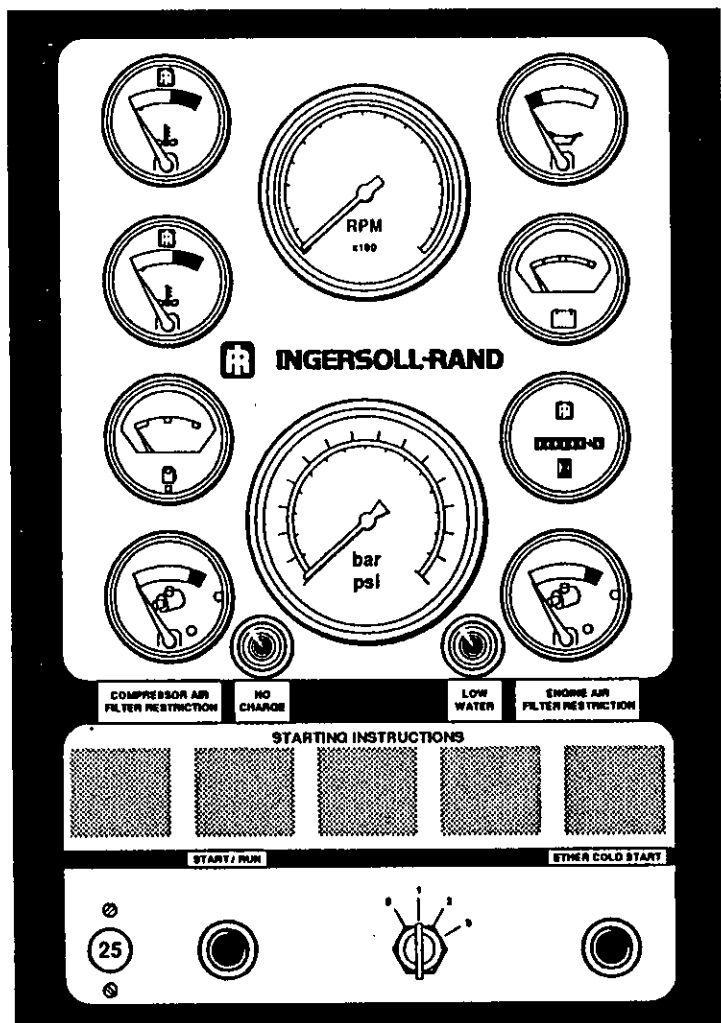
8. Check the air restriction gauges. Refer to the **MAINTENANCE** section of this manual.

CAUTION: If the unit is to be connected to a common header tank or together with another source of compressed air, then it is essential that a check valve is fitted.

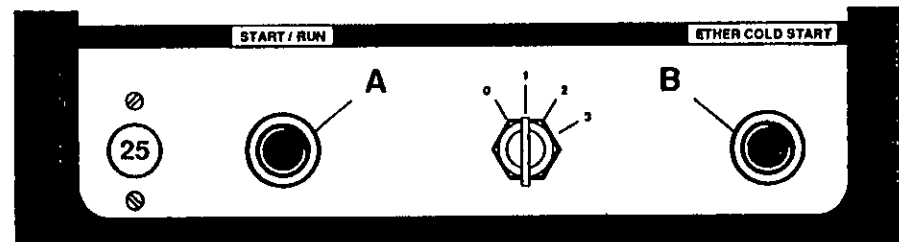
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OPERATING INSTRUCTIONS

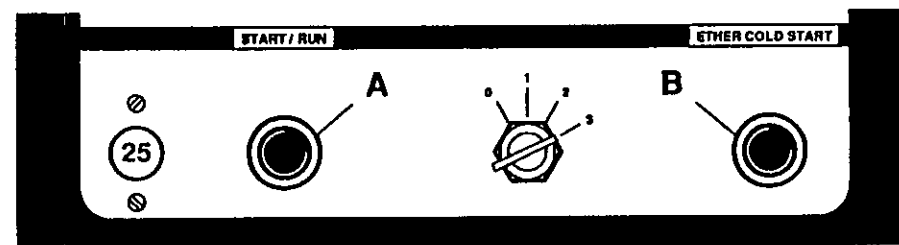
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XHP760-CA



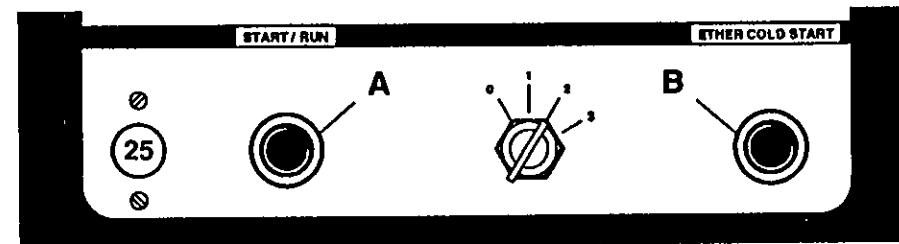
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2



3



STARTING THE UNIT

Refer to the diagram on page 5.4

All normal starting functions are incorporated in the key operated switch.

- 1: Turn the key switch to position I, the battery condition light will illuminate.
- 2: Continue to turn the key switch to position III (engine start position).
- 3: Release to position II when the engine starts.
- 4: The engine will now be running at a reduced speed. Allow unit to reach its operating temperature, then depress *Start-Run* button (A). The engine will immediately increase to maximum speed and the compressor will soon reach operating pressure.

CAUTION: Do not operate the starter motor continuously for periods longer than 30 seconds, as this will cause permanent damage to the starter motor. Wait at least one minute between attempts to start the engine. Refer to the *MAINTENANCE* section of this manual if the engine persistently fails to start.

COLD WEATHER START

Refer to diagram on page 5.4

This machine is fitted with an ether cold starting aid. In cold weather the following procedure should be followed.

5.6

OPERATING INSTRUCTIONS

XHP 660 CA
XHP 760 CA

COLD WEATHER START
continued.....

Refer to the diagram on page 5.4

2. Turn the keyswitch to position *III*. (Engine start position) and simultaneously press the control button (B) (Ether cold start). The measured amount of ether is then metered into the engine.

3. Release to position *II* when the engine starts.

4. The engine will now be running at a reduced speed. Allow unit to reach operating temperature then depress *start-run* button (A). The engine will immediately increase to maximum speed and the compressor will soon reach operating pressure.

CAUTION: *If the engine does not start, repeat the above procedure after waiting for a minimum of one minute.*

WARNING: Never use ether while the engine is running as this may result in severe damage.

If the engine fails to start refer to the MAINTENANCE section of this manual, and to the ENGINE MANUFACTURERS MANUAL.

Allow the engine to warm up then push the '*Start-run button*'. At this point in the operation of the unit it is safe to apply full load to the engine.

STOPPING THE UNIT

- 1: Close the service valve.
- 2: Allow the machine to run unloaded for a short period of time to reduce the engine temperature.
- 3: Turn the start switch to the 0 (off) position.
- 4: As soon as the engine has stopped, the automatic blowdown valve should relieve all pressure from the receiver-separator system.

If the automatic blowdown valve fails to operate, then pressure must be relieved from the system by means of the service valve(s)

WARNING: The compressed air **MUST** be released gradually by **PARTIALLY** opening the service valve(s). Never release pressure by opening the valve(s) fully.

WARNING: When relieving system pressure by means of the service valve(s), a small amount of pressure will remain in the system. No maintenance work should be carried out whilst this situation exists.

CAUTION: *Never allow the machine to stand idle with pressure in the system.*

5.8

OPERATING INSTRUCTIONS

XHP 660 CA
XHP 760 CA

EMERGENCY STOPPING

Refer to the diagram on page 5.4

In the event that the unit has to be stopped in an emergency, **TURN THE KEYSWITCH LOCATED ON THE INSTRUMENT PANEL TO THE 0 (OFF) POSITION.**

RE-STARTING AFTER AN EMERGENCY

If the unit has been switched off because of a machine malfunction, then identify and correct the fault before attempting to re-start.

If the unit has been switched off because it constituted a safety hazard, then ensure that the machine can be operated safely before re-starting.

Refer to the *PRIOR TO STARTING* and *STARTING THE UNIT* instructions earlier in this section before re-starting the machine.

MONITORING DURING OPERATION

Should any of these four shutdown conditions occur, the unit will stop. These are:

- 1: Low engine oil pressure
- 2: High air discharge temperature
- 3: High engine water temperature
- 4: Low water level

CAUTION: To ensure an adequate flow of oil to the compressor at low temperature, never allow the system pressure to fall below 50psi (3.5 bar).



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6.0

MAINTENANCE

MAINTENANCE

ONDERHOUD

WARTUNG

XHP 660 CA XHP 760 CA	Daily	Radiator. Oil level. Air filter(s). Fuel tank. Water trap	Check and replenish as required. Check and refill as required. Clean the dust collector box. Refill to prevent condensation. Drain off water.
	Weekly/ 50 hours	Protective shutdown switches. Compressor oil filter. Fan belts.	Visually check tightness. Replace after the first 50 hours from new. Check for correct tension and excessive wear. Re-tension/replace as necessary.
	Monthly/ 150 hours	Oil cooler/Radiator. Compressor oil filter. Hoses. Running Gear	Check for the build up of foreign matter. Clean if necessary by blowing out with air or pressure wash. Replace after the first 50 hours from new. Inspect. Grease nipples on steering
	3 months/ 250 hours	Safety shutdown system. Running Gear. Water Agglomerator	Test the operation of the switches. Check the bolts securing the running gear to the chassis. Re-tighten where necessary (Refer to the <i>TORQUE SETTING TABLE</i> in this manual). Replace element.
	3/6/30 months 250/500/2500 hrs.	Engine.	Refer to the <i>ENGINE MANUFACTURER'S MANUAL</i> .
	6 months/ 500 hours	Compressor oil filter. Compressor oil. Hoses. Scavenge line. Fan drive belts.	Replace. Replenish. Inspect. Clean if necessary. Replenish if necessary.
	1 year/ 1000 hours	Air filter elements. Wheel bearings. Engine breather. Safety shutdown system. Compressor oil.	Replace. Pack with grease. Clean element. Test the operation of the switches. Replace.
	As required	Separator element. Battery. Cooling system. Running gear.	Replace if damaged. Clean and grease terminals. Add anti-freeze and inhibitors Check and adjust the brakes and brake cables. Adjust and grease linkages.

XHP 660 CA
XHP 760 CA

Revision 00
10/92

6.1

MAINTENANCE

MAINTENANCE

ONDERHOUD

WARTUNG

6.2

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XHP 660 CA
XHP 760 CA

GENERAL

This section refers to the various components which require periodic maintenance and replacement.

The *SERVICE/MAINTENANCE CHART* indicates the various components' descriptions and the intervals when maintenance has to take place. Oil capacities, etc., can be found in the *GENERAL INFORMATION* section of this manual.

For any specification or specific requirement on service or preventative maintenance for the engine, refer to the *ENGINE MANUFACTURER'S MANUAL*.

PROTECTIVE SHUTDOWN SYSTEM

Consists of an air discharge temperature switch, an engine water temperature switch, a water level switch, and an engine oil pressure switch.

At three month intervals, test the air discharge temperature switch and engine water temperature switch as follows:

- . Start the unit.
- . Disconnect each switch in turn – the unit should shutdown.
- . Re-connect the switch.

6.4

MAINTENANCE

MAINTENANCE

ONDERHOUD

WARTUNG

XHP 660 CA
XHP 760 CA

PROTECTIVE SHUTDOWN SYSTEM continued.....

Also at three month intervals, test the engine oil pressure switch as follows:

- . Start the unit.
- . Connect a wire between the switch terminal and a suitable earth point
- the unit should shutdown.
- . Re-connect the switch.

At twelve month intervals, test the engine oil pressure switch as follows:

- . Remove the switch from the unit.
- . Connect it to an independent low pressure supply (either air or oil).
- . The switch should operate at 1 bar.

The air discharge and water temperature switches should also be tested annually by removing them from the unit and immersing them in a bath of heated oil. The air discharge temperature switch should operate at 120C, whilst the water temperature switch should operate at 110C.

The low water level switch should be tested annually, by draining approximately two gallons of water from the radiator by way of the drain plug. The low water level light should then illuminate when the keyswitch is turned to position I.

CAUTION: Do not drain water from the radiator whilst the machine is running.

CAUTION: Never remove or replace switches when the machine is running.

SCAVENGER LINE

The scavenger line runs from the drop tube in the separator tank, to the orifice fitting located in the aircend.

Examine the orifice check valve and hoses at every service or in the event of oil carryover into the discharge air.

It is good preventative maintenance to check that the scavenge line and tube are clear of any obstruction each time the compressor lubricant is changed as any blockage will result in oil carryover into the discharge air.

COMPRESSOR OIL FILTERS

Refer to the *MAINTENANCE CHART* in this section for the recommended servicing intervals.

Removal

WARNING: Do not remove the filter(s) without first making sure that the machine is stopped and the system has been completely relieved of all air pressure. (Refer to *STOPPING THE UNIT* in the *OPERATING INSTRUCTIONS* section of this manual).

Clean the exterior of the filter housing and remove the *spin-on* element by turning it in a counter-clockwise direction.

6.6

MAINTENANCE

MAINTENANCE

ONDERHOUD

WARTUNG

XHP 660 CA
XHP 760 CA

COMPRESSOR OIL FILTERS continued.....

Inspection

- Examine the filter element.

CAUTION: If there is any indication of the formation of varnishes, shellacs or lacquers on the filter elements, it is a warning that the compressor lubricating and cooling oil has deteriorated and that it should be changed immediately. Refer to LUBRICATION later in this section.

Reassembly

- Clean the filter gasket contact area and install the new element by screwing in a clockwise direction until the gasket makes contact with the filter housing. Tighten a further $\frac{1}{2}$ to $\frac{3}{4}$ of a revolution.

CAUTION: Start the engine (refer to PRIOR TO STARTING and STARTING THE UNIT in the OPERATING INSTRUCTIONS section of this manual) and check for leakage before the machine is put back into service.

COMPRESSOR OIL SEPARATOR ELEMENT

Normally the separator element will not require periodic maintenance provided that the air and oil filter elements are correctly maintained.

If, however, the element has to be replaced, then proceed as follows:

COMPRESSOR OIL SEPARATOR ELEMENT continued.....

Removal

WARNING: Do not remove the filter(s) without first making sure that the machine is stopped and the system has been completely relieved of all air pressure. (Refer to *STOPPING THE UNIT* in the *OPERATING INSTRUCTIONS* section of this manual).

- Disconnect all hoses and tubes from the separator tank cover plate.
- Remove the drop-tube from the separator tank cover plate and then remove the cover plate.
- Remove the separator element.

Inspection

- Examine all hoses and tubes, and replace if necessary.

Reassembly

- The orifice, check valve and filter gasket contact area should be cleaned thoroughly before reassembly.
- Install the new element.

WARNING: Do not remove the staple(s) from the separator element since they serve to ground any possible static build-up.

Reposition the cover plate, taking care not to damage the gasket, and replace the cover plate screws tightening in a *criss-cross* pattern to the recommended torque (refer to the *TORQUE SETTING TABLE* later in this section).

6.8

MAINTENANCE

MAINTENANCE

ONDERHOUD

WARTUNG

XHP 660 CA
XHP 760 CA

COMPRESSOR OIL SEPARATOR ELEMENT (Re-assembly) continued.....

Replace the drop-tube and reconnect all hoses and tubes to the separator tank cover plate.

Replace the compressor oil (refer to *LUBRICATION* later in this section).

CAUTION: Start the engine (refer to *PRIOR TO STARTING* and *STARTING THE UNIT* in the *OPERATING INSTRUCTIONS* section of this manual) and check the for leakage before the machine is put back into service.

COMPRESSOR OIL COOLER AND RADIATOR

When grease, oil and dirt accumulate on the exterior surfaces of the oil cooler and radiator, their efficiency is impaired. It is recommended that each month the oil cooler and radiator be cleaned by directing a jet of compressed air, (carrying if possible a non-flammable cleaning solvent) over the exterior core of the cooler/radiator. This should remove any accumulation of oil, grease and dirt from the exterior core of the cooler so that the entire cooling area can radiate the heat of the lubricating and cooling oil/water into the airstream.

ENGINE AIR FILTER ELEMENT

The air filter should be inspected regularly (refer to the *SERVICE/MAINTENANCE CHART*) and the element replaced when the restriction indicator shows red or every 1000 hours, whichever comes first. The dust collector box(es) should be cleaned daily (more frequently in dusty operating conditions) and not allowed to become more than half full.

Removal

CAUTION: *Never remove and replace element(s) when the machine is running.*

Clean the exterior of the filter housing and remove the filter element by releasing the wingnut.

Inspection

Check for cracks, holes or any other damage to the element by holding it up to a light source, or by passing a lamp inside.

Check the seal at the end of the element and replace if any sign of damage is evident.

Re-assembly

Assemble the new element into the filter housing ensuring that the seal seats properly.

Secure the element in the housing by hand tightening the wingnut.

Reset the restriction indicator by depressing the rubber diaphragm.

6.10

MAINTENANCE

MAINTENANCE

ONDERHOUD

WARTUNG

XHP 660 CA
XHP 760 CA

ENGINE AIR FILTER ELEMENT (Re-assembly) continued.....

Assemble the dust collector box parts, ensuring that they are correctly positioned.

Before restarting the machine, check that all clamps are tight.

NOTE: In the event that a new filter element is not readily available, the element can be re-used after cleaning. In this case the following procedure must be carried out:

Clean the element by directing a jet of clean, dry compressed air, no more than 5 bar (75 p.s.i.), at an angle of 45 degrees to the outside of the element. Carefully blow any dust from each fold of the element.

Compressed air cleaning is only recommended when a new element is not available.

VENTILATION

Always check that the air inlets and outlets are clear of debris etc.

CAUTION: NEVER clean by blowing air inwards.

COOLING FAN DRIVE

Periodically check that the fan mounting bolt in the fan hub has not loosened. If, for any reason, it becomes necessary to remove the fan or re-tighten the fan mounting bolt, apply a good grade of commercially available thread locking compound to the bolt threads and tighten to the torque value shown in the **TORQUE SETTING TABLE** later in this section.

COOLING FAN DRIVE **continued.....**

The fan belts should be checked regularly for wear and correct tensioning.

FUEL SYSTEM

The fuel tank should be filled daily or every eight hours. To prevent condensation in the fuel tanks, it is advisable to top up after the machine is shut down or at the end of each working day. Every six months, the drain plug should be removed from the tank, draining any sediment or accumulated condensate.

Note: REMOVING AIR FROM THE FUEL SYSTEM.

If it is suspected that air is present in the fuel system, then proceed as follows:-

1. Refill fuel tank.
2. Loosen the fuel injector nuts.
3. Operate the hand pump located on the engine, and observe fuel being pumped out. Continue pumping until a constant flow of fuel emits from the loose connections, and contains no air bubbles.
4. Tighten loose connections and nuts and prime with hand pump until fuel pressure gauge pointer (located on engine) is in the green sector.

WATER AGGLOMERATOR

The water agglomerator contains a filter element which should be replaced every 250 hours.

6.12

MAINTENANCE

MAINTENANCE

ONDERHOUD

WARTUNG

XHP 660 CA
XHP 760 CA

HOSES

All components of the engine cooling air intake system should be checked periodically to keep the engine at peak efficiency.

At the recommended intervals, (see the *SERVICE/MAINTENANCE CHART*), inspect all of the intake lines to the air filter, and all flexible hoses used for air lines, oil lines and fuel lines.

Periodically inspect all pipework for cracks, leaks, etc. and replace immediately if damaged.

ENGINE ANCILLARY EQUIPMENT

Several proprietary items attached to the engine require servicing at regular intervals. Refer to the *ENGINE MANUFACTURER'S MANUAL*.

ELECTRICAL SYSTEM

WARNING: Always disconnect the battery cables before performing any maintenance or service.

Inspect the engine oil pressure switch and the instrument panel relay contacts for evidence of arcing and pitting. Clean where necessary.

Check the mechanical action of the components.

ELECTRICAL SYSTEM continued..

Check the security of electrical terminals on the switches and relays i.e. nuts or screws loose, which may cause local hot spot oxidation.

Inspect the components and wiring for signs of overheating i.e. discolouration, charring of cables, deformation of parts, acrid smells and blistered paint.

BATTERY

Keep the battery terminals and cable clamps clean and lightly coated with petroleum jelly to prevent corrosion. Maintain the correct electrolyte level within the cells, using only distilled water.

The retaining clamp should be kept tight enough to prevent the battery from moving.

PRESSURE SYSTEM

At 500 hour intervals it is necessary to inspect the external surfaces of the system (from the airend through to the discharge valve(s)) including hoses, tubes, tube fittings and the separator tank, for visible signs of impact damage, excessive corrosion, abrasion, tightness and chafing. Any suspect parts should be replaced before the machine is put back into service.

XHP 660 CA
XHP 760 CA

TYRES/TYRE PRESSURE

See the *GENERAL INFORMATION* section of this manual.

RUNNING GEAR/WHEELS

Check the wheel nut torque 20 miles (32 kilometres) after refitting the wheel. Refer to the *TORQUE SETTING TABLE* later in this section.

The bolts securing the running gear to the chassis should be checked periodically for tightness (refer to the maintenance chart for frequency) and re-tightened where necessary. Refer to the *TORQUE SETTING TABLE* later in this section.

LUBRICATION

The engine is initially supplied with engine oil sufficient for a nominal 250 hours operation (for more information, consult The *ENGINE MANUFACTURER'S MANUAL*).

CAUTION: Always check the oil levels before a new machine is put into service.

If, for any reason, the unit has been drained, it must be re-filled with new oil before it is put into operation.

ENGINE LUBRICATING OIL

The engine oil should be changed at the recommended intervals, in line with manufacturer's instructions. Refer to the *ENGINE MANUFACTURER'S MANUAL*.

ENGINE LUBRICATING OIL SPECIFICATION

Refer to the *ENGINE MANUFACTURER'S MANUAL*.

ENGINE OIL FILTER ELEMENT

The engine oil filter element should be changed at the recommended intervals, in line with manufacturer's instructions. Refer to the *ENGINE MANUFACTURER'S MANUAL*.

COMPRESSOR LUBRICATING OIL

Refer to the *MAINTENANCE CHART* in this section for service intervals.

NOTE: If the machine has been operating under adverse conditions, or has suffered long shutdown periods, then more frequent service intervals will be required.

6.16

MAINTENANCE

MAINTENANCE

ONDERHOUD

WARTUNG

XHP 660 CA
XHP 760 CA

LUBRICATION. Compressor
lubricating oil continued

WARNING: DO NOT, under any circumstances, remove any drain plugs or the oil filler plug from the compressor lubricating and cooling system without first making sure that the machine is stopped and the system has been completely relieved of all air pressure (refer to *STOPPING THE UNIT* in the *OPERATING INSTRUCTIONS* section of this manual).

Completely drain the receiver/separator system including the piping and oil cooler by removing the drain plugs and collecting the used oil in a suitable container.

Replace all the drain plugs ensuring that each one is secure.

NOTE: If the oil is drained immediately after the machine has been running, then most of the sediment will be in suspension and will therefore drain more readily.

CAUTION: Some oil mixtures are incompatible and result in the formation of varnishes, shellacs or lacquers which may be insoluble.

NOTE: Always specify *INGERSOLL-RAND* compressor lubricating oil (refer to the *PARTS CATALOGUE* section of this manual for details).

XHP 660 CA
XHP 760 CA

COMPRESSOR LUBRICATING OIL SPECIFICATION

Ingersoll-Rand lubricating oil is recommended for use in all Ingersoll-Rand portable compressors. The oil conforms to the specifications listed in table a) below.

NOTE: If alternative lubricants are to be used then they too must conform to this specification.

COMPRESSOR LUBRICATING AND COOLING OIL RECOMMENDATIONS.

XHP 760

a) AMBIENT TEMPERATURE

-23C to +52C

**USE DEXRON or DEXRON II
AUTOMATIC TRANSMISSION
FLUID**

or

b) AMBIENT TEMPERATURE

-18C to +52C

**USE IR XHP 505 SYNTHETIC
LUBRICANT**

XHP 660

a) AMBIENT TEMPERATURE

-18C to +38C

**USE IR XHP 505 SYNTHETIC
LUBRICANT**

or

b) AMBIENT TEMPERATURE

-21C to +46C

**USE IR XHP 1001 SYNTHETIC
LUBRICANT**

Revision 00
10/92

6.18

MAINTENANCE

MAINTENANCE

ONDERHOUD

WARTUNG

XHP 660 CA
XHP 760 CA

LUBRICATION (compressor
lubricating oil specification)
continued.....

CAUTION: Care should be taken to ensure that all downstream components will be compatible with synthetic lubricants.

**COMPRESSOR OIL FILTER
ELEMENT**

Refer to the
SERVICE/MAINTENANCE CHART
in this section for service intervals.

**RUNNING GEAR WHEEL
BEARINGS**

Wheel bearings should be packed with grease every 12 months. The type of grease used should conform to specification *MIL-G-10924*.



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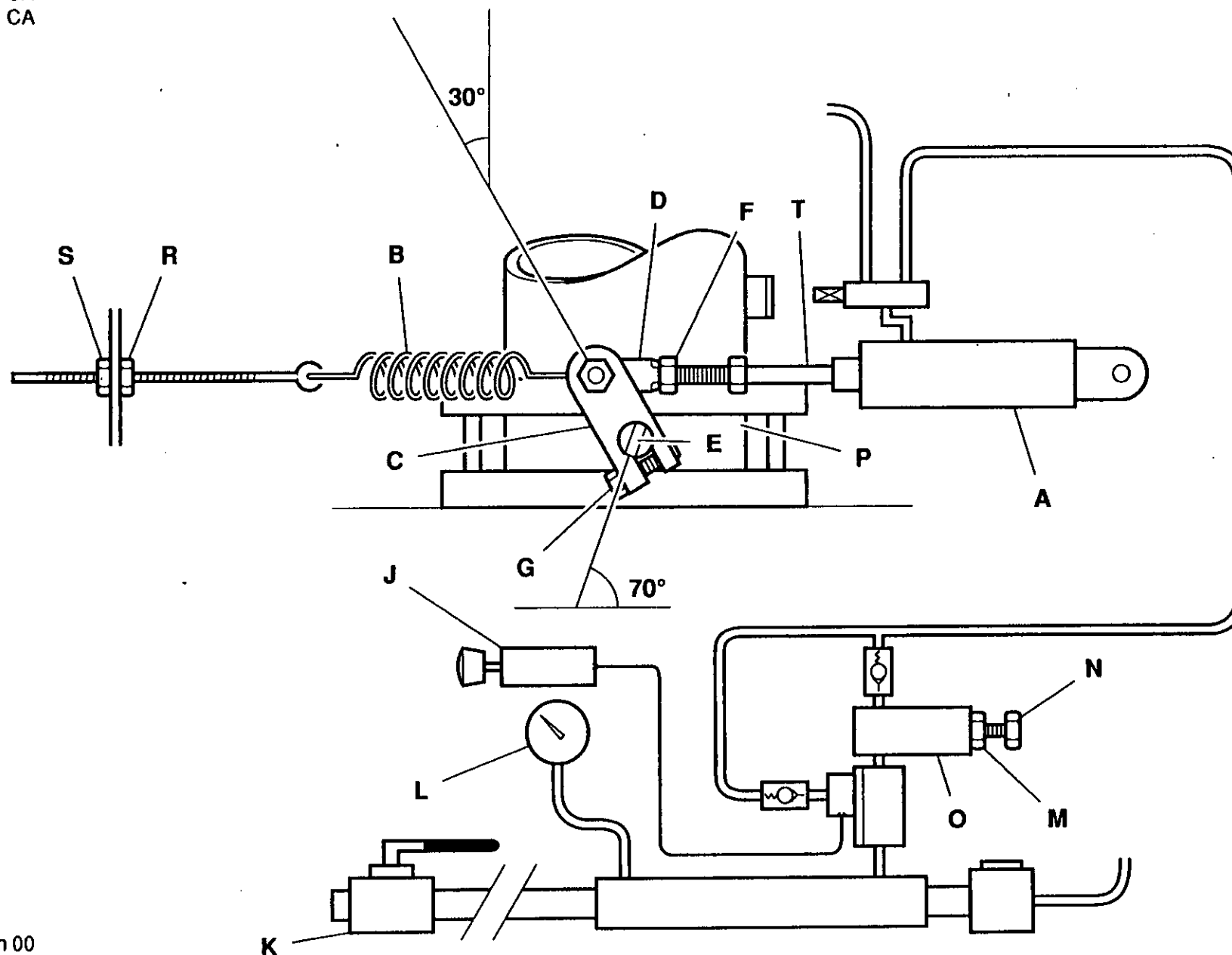
GEBRUIK ALLEEN ORIGINELE ONDERDELEN VAN INGERSOLL-RAND

NUR ORIGINAL-INGERSOLL-RAND-ERSATZTEILE VERWENDEN

6.20

MAINTENANCE

XHP660 CA
XHP760 CA



SPEED AND PRESSURE REGULATION ADJUSTMENT.

Refer to diagram on page 6.20

NOTE: The operating pressure of this unit was set at the factory to the maximum rating (at full speed). However, this pressure may be reset down to 150 psi (1050kPa).

Normally regulation requires no adjusting, but if proper adjustment is lost, proceed as follows;

BEFORE STARTING UNIT:

1. With the unit stopped, ensure that the pneumatic actuating cylinder rod (U) is fully extended by adjusting the engine throttle cable (H).

NOTE: The engine governor must be at the full speed position.

2. Disconnect the ballast spring (B) from the butterfly valve pilot lever (C).

3. Adjust the rod end bearing (D) until the butterfly valve pilot lever (C) moves approximately 30 degrees past the vertical towards the spring side of the butterfly valve shaft (E). Tighten the locknut (F) to hold the adjustment.

4. Loosen the screw (G) on the butterfly valve pilot lever, and turn the shaft (E) until the mark on the end of the shaft is approximately 70 degrees from the horizontal line. (as shown on the diagram).

6.22

MAINTENANCE

MAINTENANCE

ONDERHOUD

WARTUNG

XHP 660 CA
XHP 760 CA

SPEED AND PRESSURE REGULATION ADJUSTMENT continued.....

Refer to diagram on page 6.20

5. Re-tighten the screw (G). Rotate the butterfly valve open and closed several times to ensure that the linkages are not binding. Start the unit.

AFTER STARTING UNIT:

6. Allow engine to warm up. Push the *start-run* valve (J) on the control panel.

7. Adjust the service valve (K) to obtain the maximum rating of the unit (*) on the discharge pressure gauge (L).

NOTE: The pneumatic cylinder must be fully extended, and the discharge pressure at the maximum rating of the unit (*) during steps 8 & 9. If this pressure cannot be obtained without the pneumatic cylinder beginning to retract, loosen the pressure regulator locknut (M) and adjust the regulator by rotating screw (N), in a clockwise direction, until the maximum rating of the unit (*) can be maintained with the pneumatic cylinder rod (T) fully extended.

(*) – See GENERAL INFORMATION specifications.

**SPEED AND PRESSURE
REGULATION ADJUSTMENT**
continued.....

8 Rotate the regulator adjusting screw (N) clockwise an additional revolution. Adjust the engine throttle cable (H) to obtain the full load engine speed at the maximum rating of the unit (*). Throttle cable adjustment can be made by screwing the rod end bearing (D) clockwise for increasing speed, and counterclockwise for reducing speed. Tighten locknut (F) against the rod end bearing

9. When the full load engine speed is attained, re-adjust the pressure by rotating screw (N) until the pneumatic cylinder just begins to retract whilst still maintaining the maximum rating of the unit (*). This adjustment is important to limit the regulation range. Tighten the locknut (M) to hold the setting.

10. Close the service valve (K) the engine will slow to idle speed and the butterfly valve (P) will close. Observe the idle speed then shut the unit down.

WARNING: Do not attempt to adjust the idle speed whilst the engine is running.

NOTE: The idle speed should not be adjusted until the unit has reached its operating temperature.

(*) – See GENERAL INFORMATION Specifications.

6.24

MAINTENANCE

XHP 660 CA
XHP 760 CA

SPEED AND PRESSURE REGULATION ADJUSTMENT continued.....

11. To change the idle speed, adjust the butterfly valve opening by first loosening the screw (G), and then adjusting the butterfly valve shaft (E). Open the butterfly valve to reduce idle speed and close to increase the idle speed. Re-tighten the screw (G). Re-start the unit and press the 'start-run' valve (J). Re-check the idle speed. Repeat step 11 if necessary.

12. Connect the ballast spring (B) to the butterfly valve pivot lever (C). Loosen the locknut (R). Re-start the unit. With the unit operating in the full load condition, adjust the nut (S) on the threaded rod to obtain maximum spring tension.

13. Slowly open the service valve (K). If the engine speed does not stabilize, increase the tension on the ballast spring. After the speed stabilizes, tighten the locknut (R).

14. To regulate to any pressure between 150psi (1050kPa) and the maximum rating of the unit (*), change the adjustment of the screw (N) to obtain the required discharge pressure at the full load engine speed. Tighten the locknut (M) to hold the setting.

(*) – See GENERAL INFORMATION Specifications.



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NUR ORIGINAL-INGERSOLL-RAND-ERSATZTEILE VERWENDEN

6.26

MAINTENANCE Torque Values

MAINTENANCE

ONDERHOUD

WARTUNG

XHP 660 CA
XHP 760 CA

	Size M22	Nm 220		Size M8	Nm 47
Wheel nuts			Autella clamps		
Drive ring to flywheel	3/8 UNC	35	Inlet flange to airend	M8 x 20	190
Tannkrans mot svinghjul					
Airend to engine	7/16 UNC	50	Cover to separator tank	M20 x 85	286
Mounting bracket to airend	M20	237	Lifting bail top beam	M16	160
Resilient mounts to frame	3/4 UNC	154	Lifting bail to truckframe	M20	286
Cylinder bracket to engine	3/8	24	Discharge pipe to separator tank	M20	105
Starter motor terminals	1/2	24	Discharge pipe to airend	3/4 UNC	105
Engine exhaust pipe to turbo	M12	39	Fan to fan hub	3/8 UNC	47

XHP 660 CA
XHP 760 CA

	Sizes	Nm	Size	Nm
Separator tank to truckframe	M16	190		
Spring shackles to truck frame	M16	154		
Axles to springs	M16	90		
Pintle box to truckframe	M16	150		

Revision 00
10/92

6.27

**MAINTENANCE
Torque Values**

MAINTENANCE

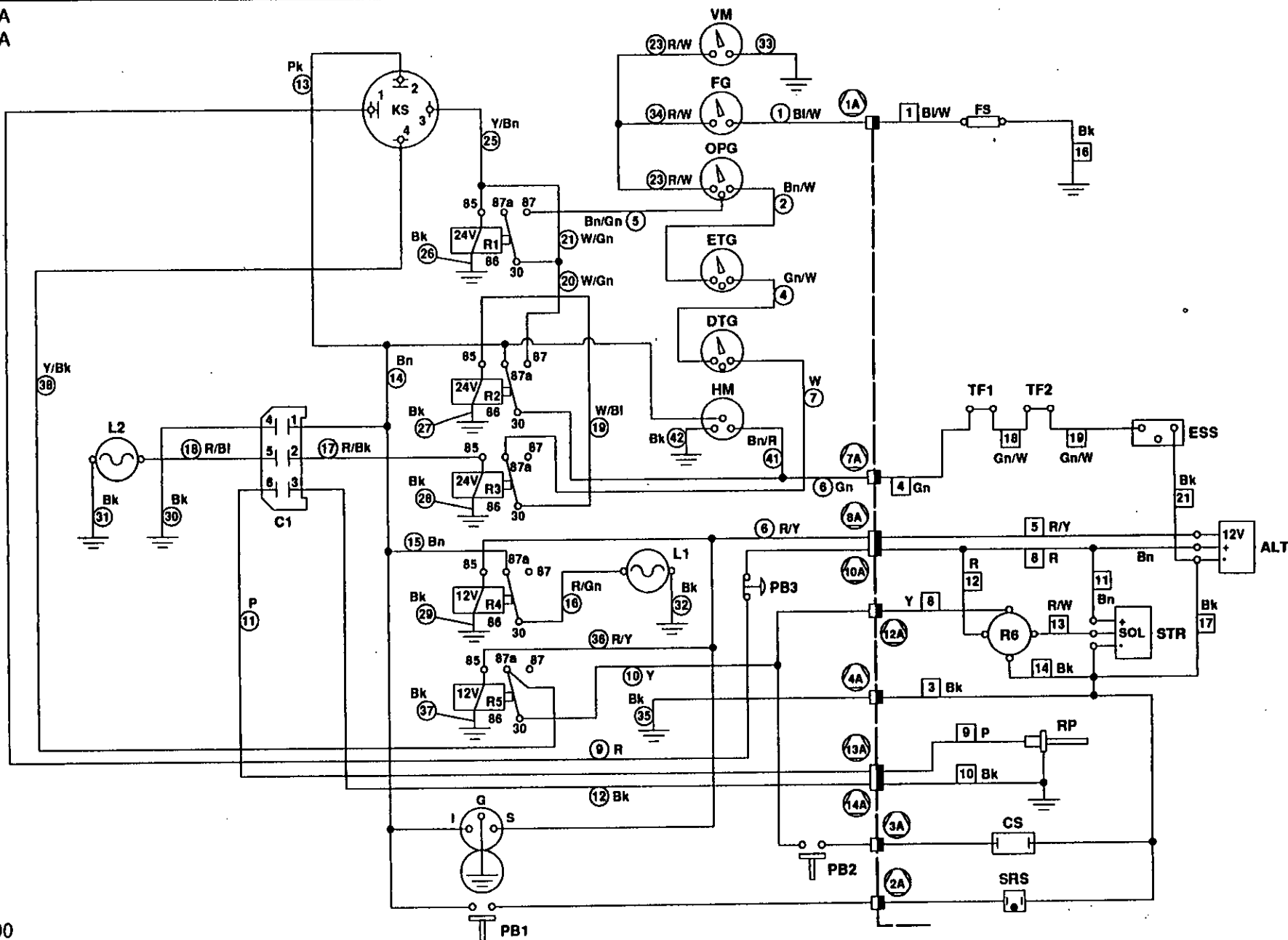
ONDERHOUD

WARTUNG

7.0

ELECTRICAL SYSTEM

XHP660 CA
XHP760 CA



KEY

VM	Voltmeter
FG	Gauge, Fuel
FS	Fuel gauge sender
OPG	Gauge, Oil pressure
ETG	Gauge, Engine temperature
DTG	Gauge, Discharge temperature
HM	Hourmeter
KS	Key switch
R1	Relay, Over-ride
R2	Relay, Fuel stop solenoid
R3	Relay, Radolarm
R4	Relay, Alternator charge
R5	Relay, Start inhibit
R6	Relay, Engine start
PB1	Push button 1. Start-Run
PB2	Push button 2. Cold start
PB3	Push button 3. Reset
C1	Connector, Radolarm unit
L1	Lamp, No charge
L2	Lamp, Engine temperature
TF1	Thermal fuse, Discharge pipe.
TF2	Thermal fuse, Separator tank
ESS	Engine stop solenoid
ALT	Alternator
STR	Starter motor
RP	Radolarm probe
CS	Cold start device
SRS	Start/Run solenoid

 Wire number

 Wire number-engine wiring

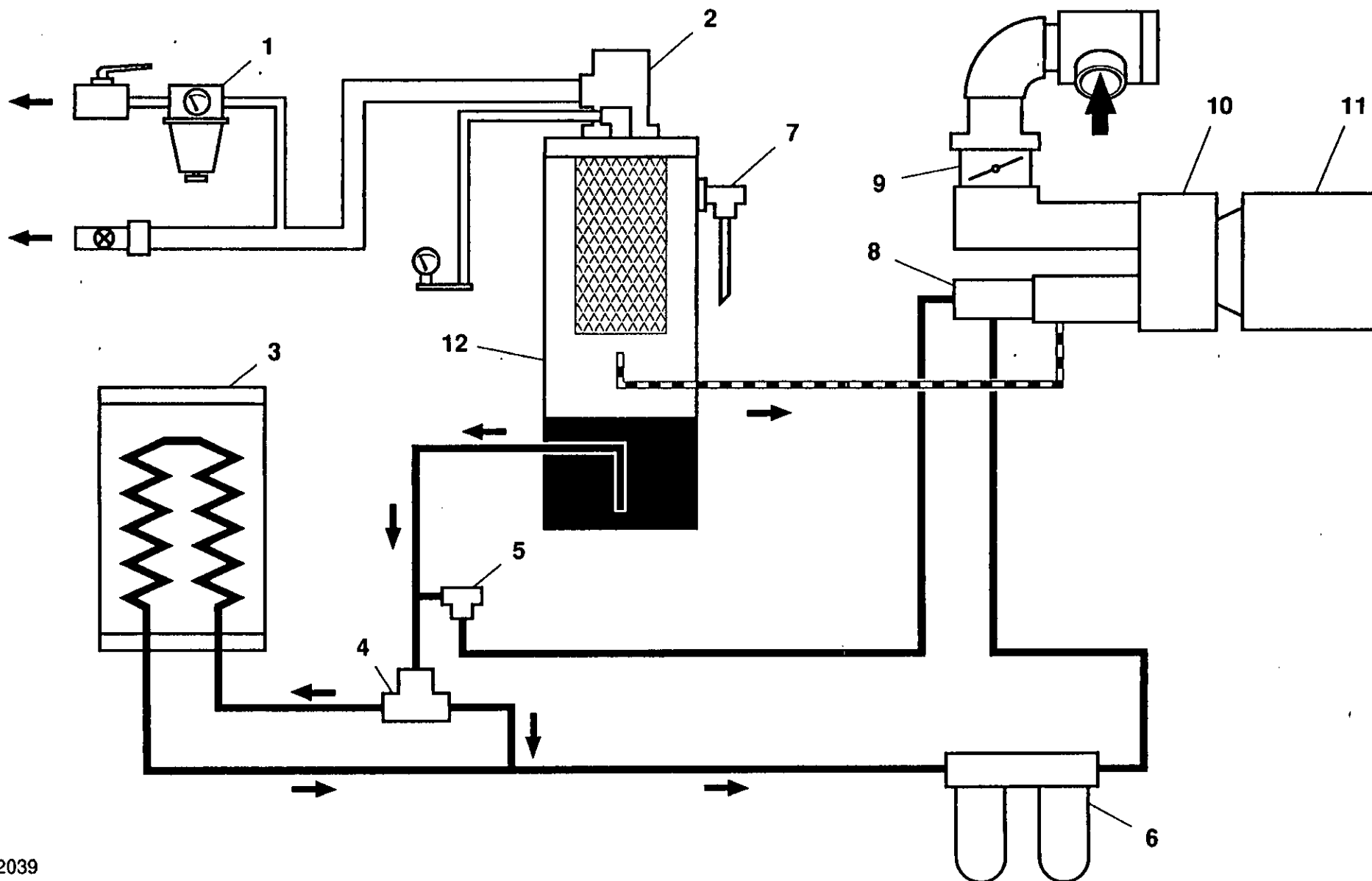
 Multipole connector

 Pin No. in multipole
connector

7.2

OIL / AIR SYSTEM

XHP660 CA
XHP760 CA



XHP 660 CA
XHP 760 CA

1	PRESSURE REDUCER	1		1	
2	MINIMUM PRESSURE VALVE	2		2	
3	OIL COOLER	3	REFRIGERANT D'HUILE	3	OLIEKOELER
4	TEMPERATURE BYPASS VALVE	4		4	ÖLKÜHLER
5	OIL PRESSURE BYPASS VALVE	5		5	
6	OIL FILTER	6	FILTRE D'HUILE	6	ÖLFILTER
7	SAFETY VALVE	7	SOUPAPE DE SÉCURITÉ	7	SICHERHEITSVENTIL
8	OIL PUMP	8		8	
9	BUTTERFLY VALVE	9		9	
10	COMPRESSOR	10	COMPRESSEUR	10	KOMPRESSOR
11	ENGINE	11		11	
12	SEPARATOR TANK	12	RÉSERVOIR SÉPARATEUR	12	ABSCHEIDERTANK
	OIL		HUILE		OLIE
	AIR		AIR		LUCHT
	OIL/AIR		HUILE/AIR		OLIE/LUCHT
					ÖL
					LUFT
					ÖL/LUFT

Revision 00
10/92

7.3 MACHINE SYSTEMS

Oil/Air system

8.0

FAULT FINDING

XHP 660 CA
XHP 760 CA

FAULT	CAUSE	CHECK AND REMEDY
Engine fails to start (Starter not operating)	Low battery voltage. Circuit breaker out.	Check battery connections & re-charge battery if necessary. Press in re-set button.
Engine fails to start (Starter motor operating)	Loose wire to stop solenoid. Fuseable plug blown. Faulty stop solenoid. Fuel starvation. Air in fuel system. Faulty start switch	Check wiring. Check fuseable plugs on top of separator tank, and in discharge pipe. Check stop solenoid. Manually pump fuel until fuel pressure gauge shows green. Bleed fuel system to injectors, while operating manual lift pump. Check switch.
Engine stops when key switch is released.	Low engine oil pressure. Low water level. Faulty wiring. Faulty relay. Faulty key switch.	Check oil level. Check for blocked oil filter. Check if low water lamp is extinguished. Check wiring circuit. Check relays. Check key switch.
Engine stops	No fuel Water in fuel system. High discharge temperature. High water temperature. Low engine oil pressure. Faulty wiring. Faulty relay.	Check level in tanks, and fuel filters. Check water trap and clean if required. Check discharge temperature gauge. Check water temperature gauge. Check oil level. Check for blocked oil filter. Check switch/gauge. Check wiring circuit for loose connections. Check relay in holder. replace if necessary.
Machine goes to full pressure when started.	Butterfly valve set incorrectly.	Reset butterfly valve. (See MAINTENANCE, Speed and pressure regulation adjustment).
Machine fails to load when Start/Run button is pressed.	Faulty Run solenoid.	Change solenoid. Check electrical circuit by feeling for movement whilst depressing Start/Run button.

FAULT	CAUSE	CHECK AND REMEDY
Safety valve relieves.	Incorrectly set butterfly valve. Incorrectly set pressure regulator. Loose pipe/hose connections. Faulty safety valve.	Reset butterfly valve. (See MAINTENANCE, Speed and pressure regulation adjustment). Check pressure regulator actuating pressure. Check all connections. Check relieving pressure. Replace valve if faulty. Do not attempt a repair
Oil is emitted from the compressor air filter.	Incorrect stopping procedure. Faulty discharge check valve. Machine stalls when required to idle.	Always employ correct stopping procedure. Close discharge valve and allow machine to run on idle before stopping. Dismantle, valve from discharge pipe and check operation. Check operation of regulation system. Check and adjust idle speed if neccessary.
Excessive compressor oil temperature.	Low oil level. Blocked oil cooler fins. Faulty temperature bypass valve. Faulty oil pump Reduced cooling air from fan.	Check oil level, and replenish to top of green sector in sight glass. Clean cooling fins with compressed air or steam, while machine is stopped. Use only reduced pressure for cleaning fins. Check bypass valve. (See MAINTENANCE, Protective shutdown system). Check oil pump drive coupling. Check fan and belts. Check for obstruction inside cowl.
Excessive engine water temperature.	Low water level. Blocked radiator fins. Reduced cooling air from fan Faulty thermostat.	Check and replenish. Clean cooling fins with compressed air or steam while machine is stopped. Use only reduced pressure for cleaning fins. Check fan and belts. Check for obstruction inside cowl. Check and replace if neccessary.

8.2

FAULT FINDING

XHP 660 CA
XHP 760 CA

FAULT	CAUSE	CHECK AND REMEDY
Low CFM	Blocked air filters. Air leak in pressure system. Low engine speed.	Replace filter elements. Trace leak and rectify. Test engine speed with tachometer. Reset air cylinder if necessary. (See MAINTENANCE, Speed and pressure regulation adjustment).
	Incorrectly set regulation system.	(See MAINTENANCE, Speed and pressure regulation adjustment).
Excessive oil in discharge air.	Clogged scavenge orifice.	Dismantle and clean scavenge orifice and drop tube.
	Defective separator element.	Remove element and check for damage. Replace if necessary.
	Defective minimum pressure valve.	Check minimum pressure valve. Pressure should be a minimum of 150 psi.
Low engine RPM	Blocked air filter. Restricted fuel filters. Premature unloading. Engine or a/rend malfunctioning.	Clean or replace element. Clean filter and replace elements. Check regulation and operation of air cylinder. Reduce operating pressure to see if engine speed increases.



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9.0

OPTIONS

XHP 660 CA
XHP 760 CA

Revision 00
10/92

XHP 660 CA
XHP 760 CA

Revision 00
10/92

9.1

OPTIONS

INGERSOLL-RAND

**XHP660
XHP760
PORTABLE COMPRESSOR**

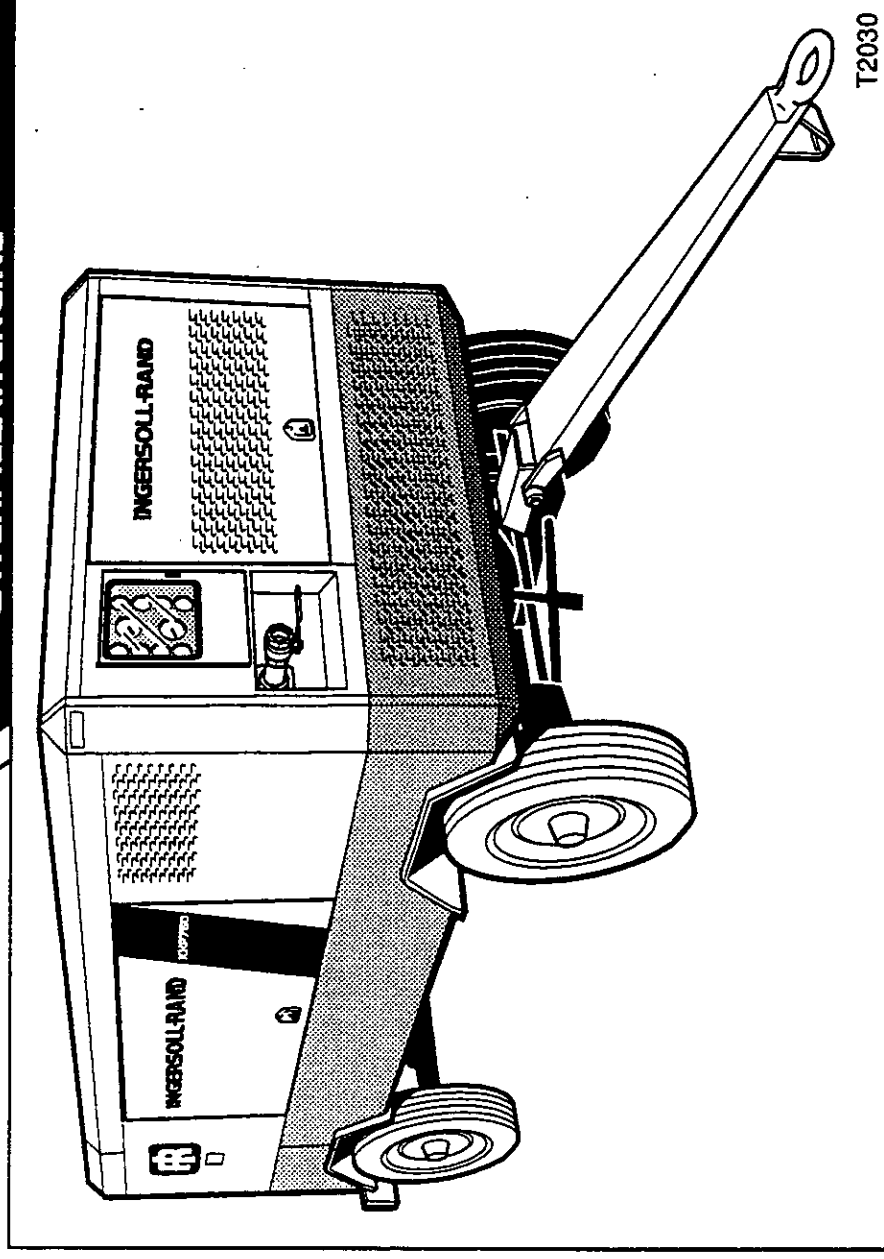
CATERPILLAR ENGINE

PARTS CATALOGUE

CATALOGUE DE PIÈCES DÉTACHÉES

ONDERDELENKATALOGUS

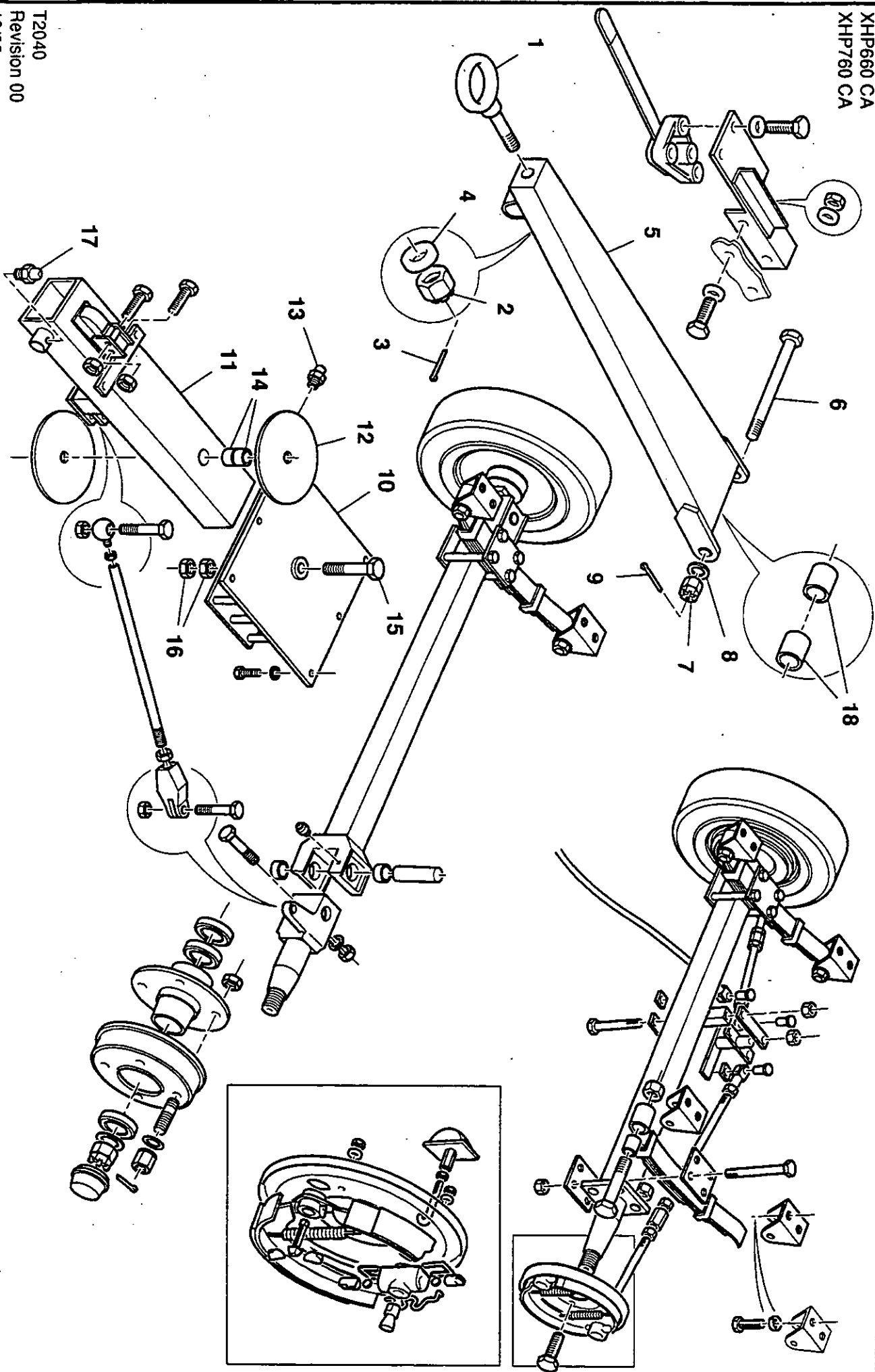
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10.0.0

RUNNING GEAR -UNBRAKED

XHP660 CA
XHP760 CA

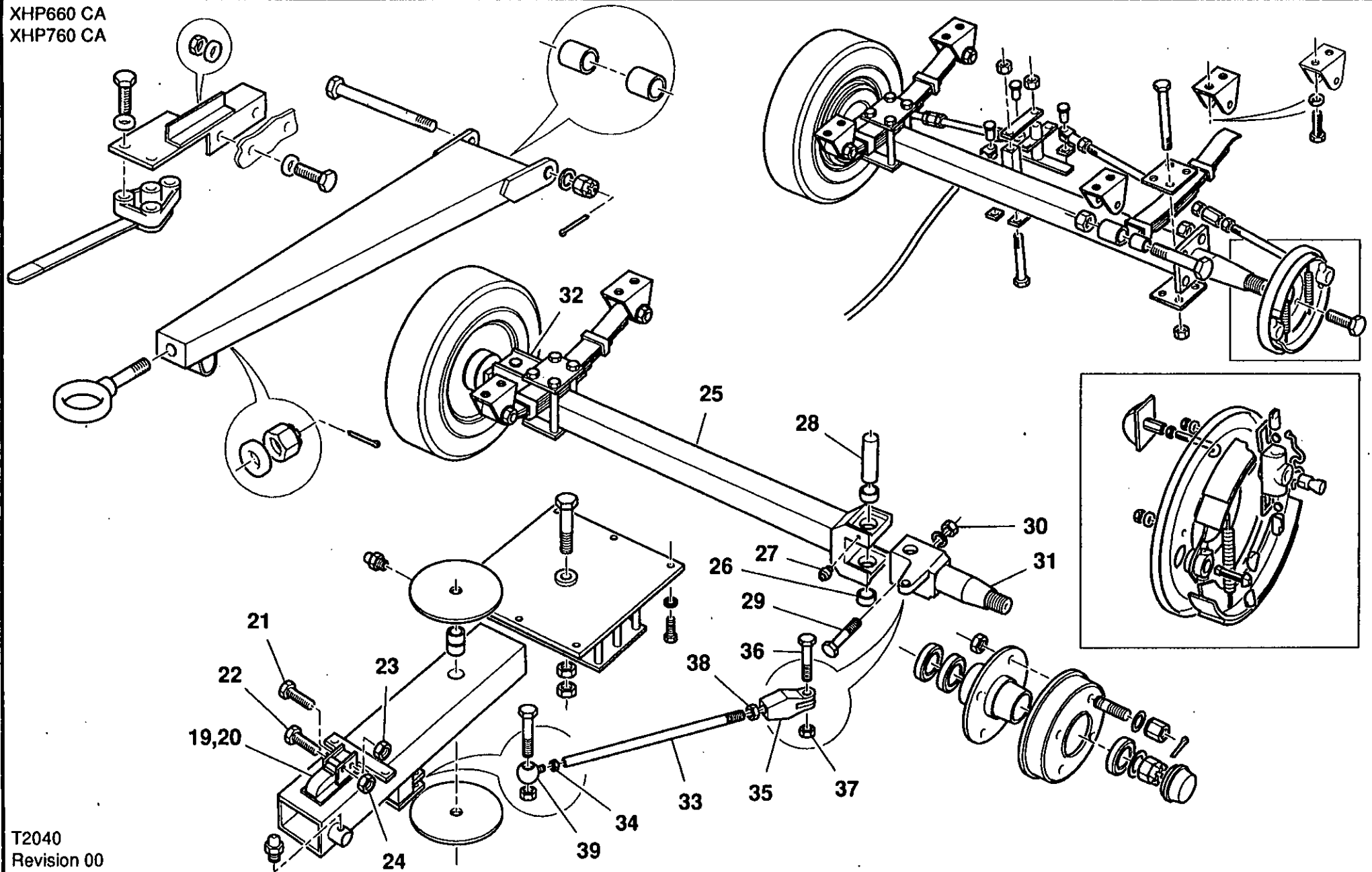


	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA							
XHP 660 CA							
	1	92299916	1	Eye			
	1A	92042688	1	Eye			
	2	92299924	1	Nut	Ecrou	Moer	Mutter
	3	92299940	1	Pin			
	4	92299932	1	Washer	Rondelle	Ring mo	Unterlegscheibe
	5	92302678	1	Drawbar			
	5A	92070903	1	Drawbar			
	6	92302686	1	Bolt		Bout	
	7	92299973	1	Nut	Ecrou	Moer	Mutter
	8	92299981	1	Washer	Rondelle	Ring mo	Unterlegscheibe
	9	92299999	1	Pin			
	10	92042738	1	Pintle box (complete)			
	11	92042746	1	Body			
	12	92042753	1	Swivel plate			
	13	92096247	4	Nipple		Nippel	
	14	92042761	2	Bush	Palier	Bus	Hülse
	15	92042779	1	Bolt		Bout	
	16	92042787	2	Locknut	Ecrou	Borgmoer	
	17	92302058	3	Nipple		Nippel	
	18	92302975	2	Bush	Palier	Bus	Hülse

10.0.1 RUNNING GEAR – UNBRAKED

10.0.2 RUNNING GEAR -UNBRAKED

XHP660 CA
XHP760 CA



	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA XHP 660 CA	19	92302009	1	Latch	Verrou	Sluiting	Klinke
	20	92301993	1	Spring	Ressort	Veer	Feder
	21	95325239	1	Setscrew	Vis	Intelschroef	Sartschrause
	22	92302637	1	Setscrew	Vis	Intelschroef	Sartschrause
	23	95077764	1	Nut	Ecrou	Moer	Mutter
	24	92274828	1	Nut	Ecrou	Moer	Mutter
	25	92960343	1	Beam			
	26	92302736	4	Bush	Palier	Bus	Hülse
	27	92302058	4	Nipple		Nippel	
	28	92302744	2	Pin			
	29	92302116	4	Bolt		Bout	
	30	95077798	4	Nut	Ecrou	Moer	Mutter
	31	92960350	1	Stub axle LH			
	32	92960368	1	Stub axle RH			
	33-39	92950351	1	Track rod assy			
	33	92042837	2	Rod			
	34	92042894	2	Locknut	Ecrou	Borgmoer	
	35	92042845	2	Clevis			
	36	95329843	2	Bolt		Bout	
	37	92327212	2	Nut	Ecrou	Moer	Mutter
	38	92042902	2	Locknut	Ecrou	Borgmoer	
	39	92042852	2	Rose joint			

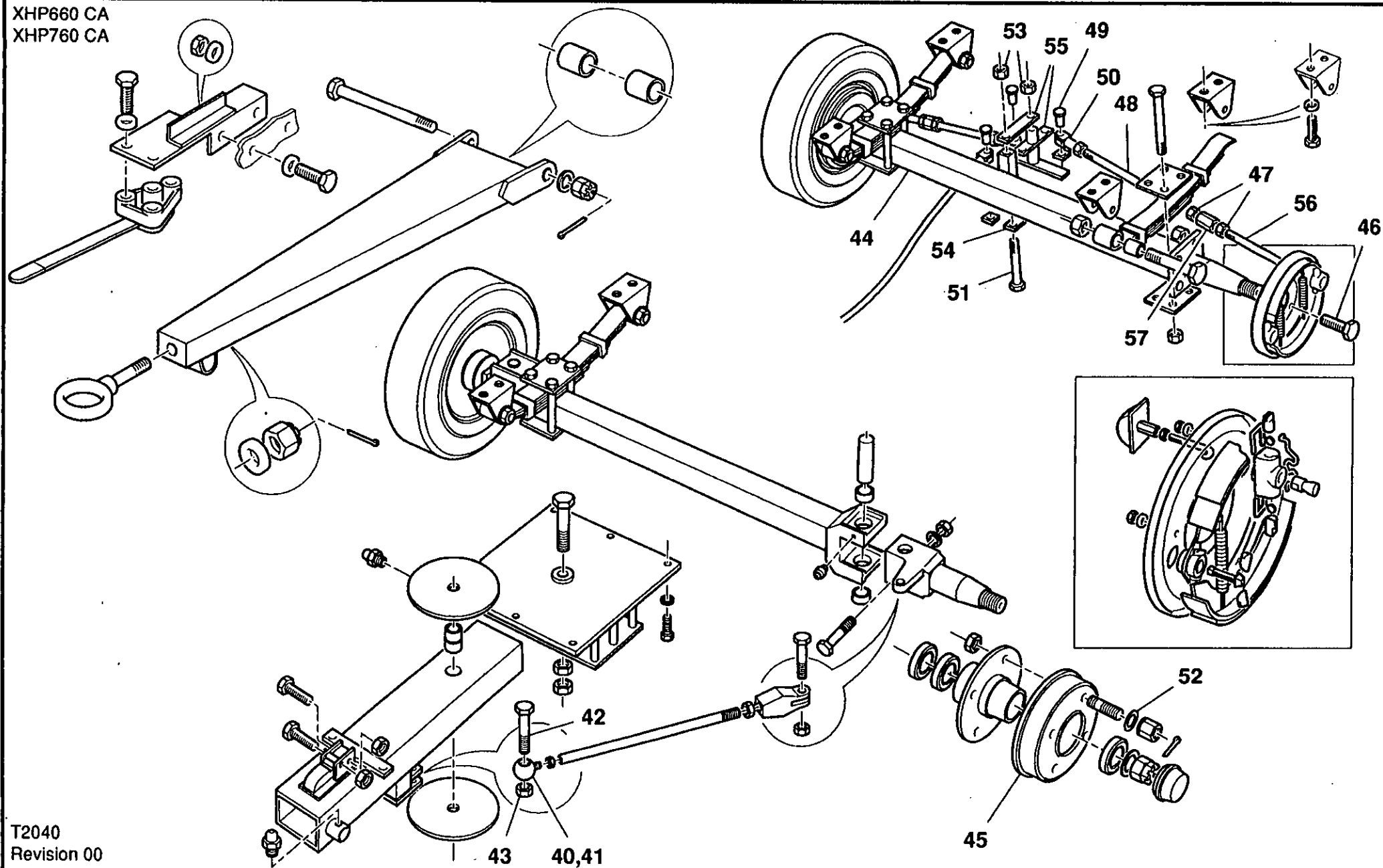
Revision 00
10/92

10.0.3 RUNNING GEAR - UNBRAKED

10.0.4

RUNNING GEAR -UNBRAKED

XHP660 CA
XHP760 CA



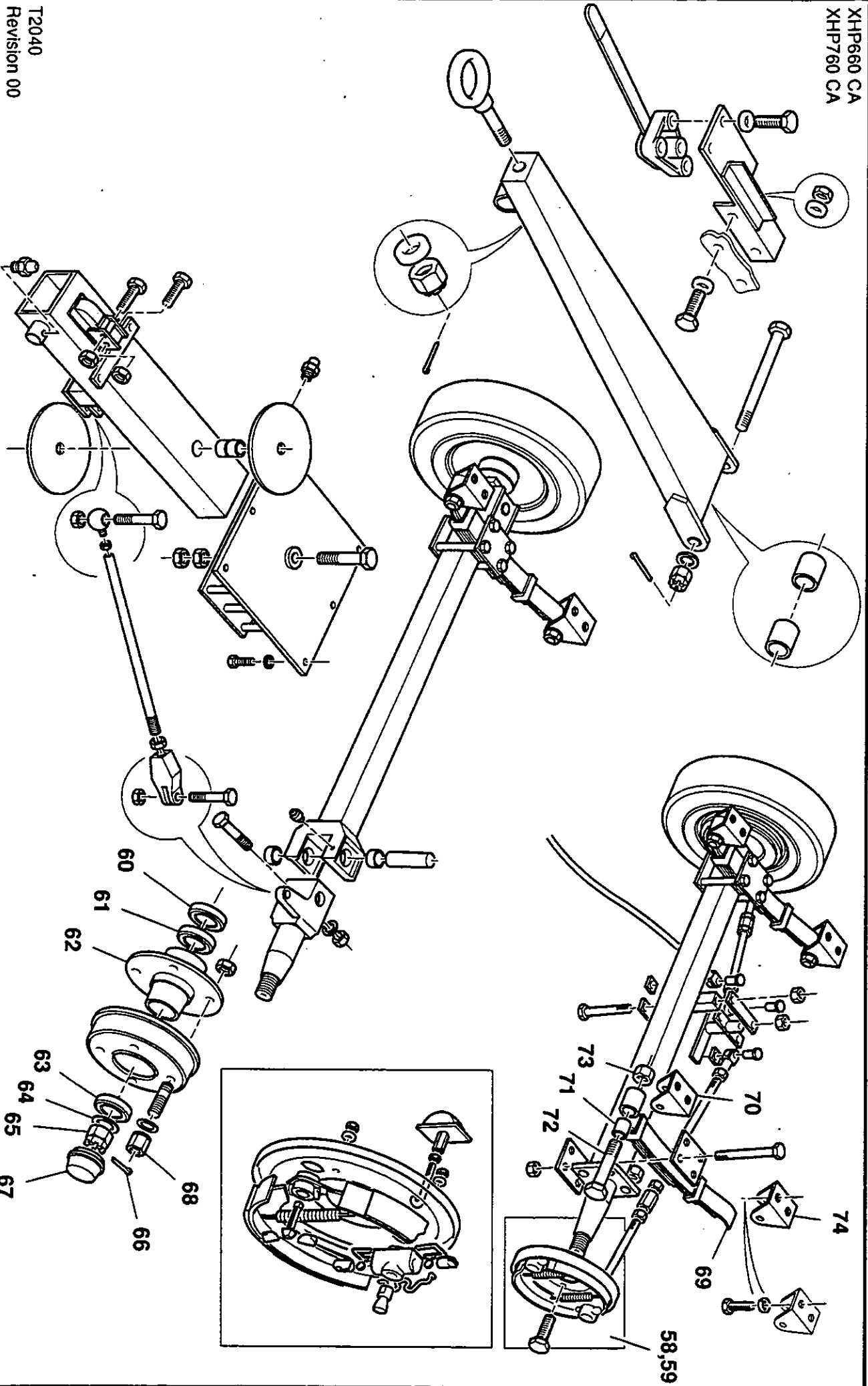
Revision 00
10/92

10.0.5 RUNNING GEAR – UNBRAKED

10.0.6

RUNNING GEAR -UNBRAKED

XHP660 CA
XHP760 CA



Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA						
58	92289586	1	Brake assy RH			
59	92414705	1	Brake assy LH			
60	92960392	4	Seal			
61	92960400	4	Bearing			
62	92960418	4	Hub			
63	92960426	4	Bearing			
64	92960434	4	Washer	Rondelle	Ring mo	Unterlegscheibe
65	92961895	4	Nut	Ecrou	Moer	Mutter
66	92299999	4	Pin			
67	92302355	4	Cap			
68	92302793	20	Nut	Ecrou	Moer	Mutter
69-74	92091842	1	Spring assy			
69	92091867	4	Spring	Ressort	Veer	Feder
70	92302405	4	Shackle			
71	92302413	4	Bush	Palier	Bus	Hülse
72	92302850	4	Bolt		Bout	
73	92302868	4	Locknut	Ecrou	Borgmoer	
74	92302447	4	Shackle			

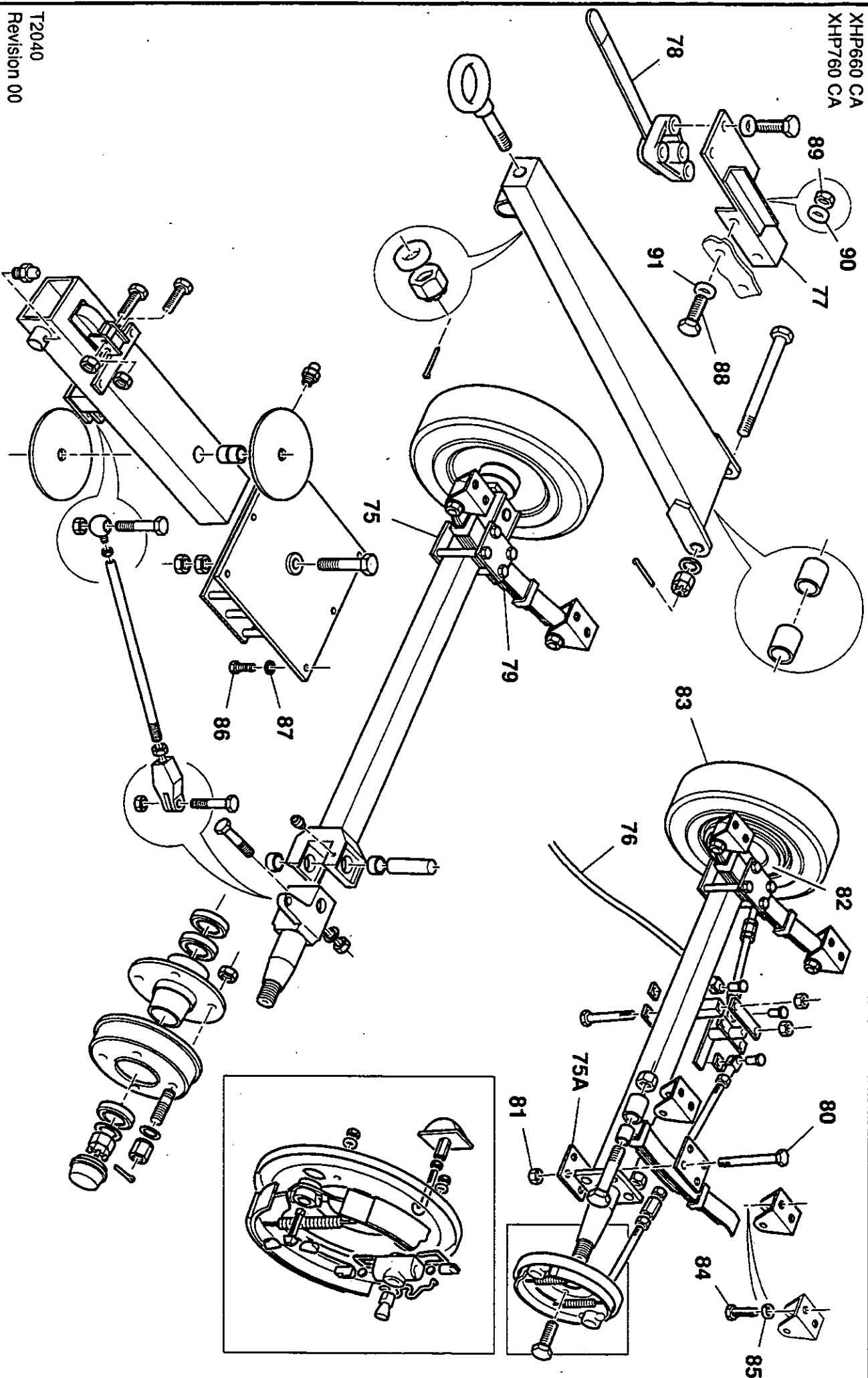
Revision 00
10/92

10.0.7 RUNNING GEAR
- UNBRAKED

10.0.8

RUNNING GEAR -UNBRAKED

XHP660 CA
XHP760 CA



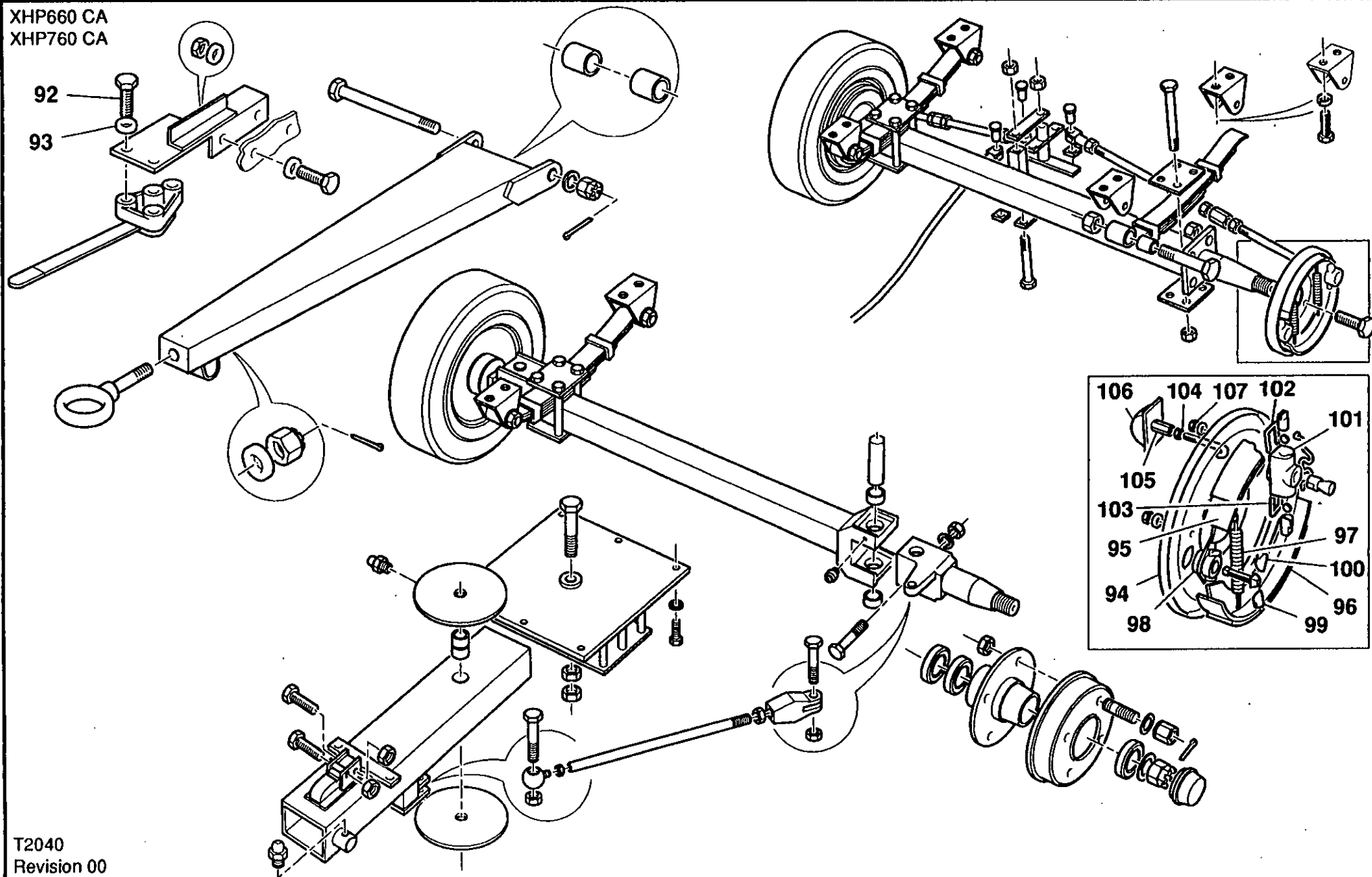
	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA							
XHP 660 CA							
	75	92302884	4	Plate			
	75A	92302918	4	Plate			
	76	92795400	1	Cable			
	77	92056852	1	Bracket	Support	Beugel	Stützblech
	78	92327519	1	Handle & bracket			
	79	92302892	8	Bolt		Bout	
	80	92302462	8	Bolt		Bout	
	81	92302439	16	Locknut	Ecrou	Borgmoer	
	82-83	92058940	4	Wheel & tyre assembly			
	82	92058957	1	Wheel			
	83	92058965	1	Tyre			
	84	92367663	16	Setscrew	Vis	Intelschroef	Sartschrause
	85	92359371	16	Lockwasher			
	86	92280965	6	Bolt		Bout	
	87	92359363	6	Washer	Rondelle	Ring mo	Unterlegscheibe
	88	90103185	2	Setscrew	Vis	Intelschroef	Sartschrause
	89	90103854	2	Nut	Ecrou	Moer	Mutter
	90	92304682	2	Lockwasher			
	91	92329341	2	Washer	Rondelle	Ring mo	Unterlegscheibe

Revision 00
10/92

10.0.9 RUNNING GEAR - UNBRAKED

10.0.10 RUNNING GEAR -UNBRAKED

XHP660 CA
XHP760 CA



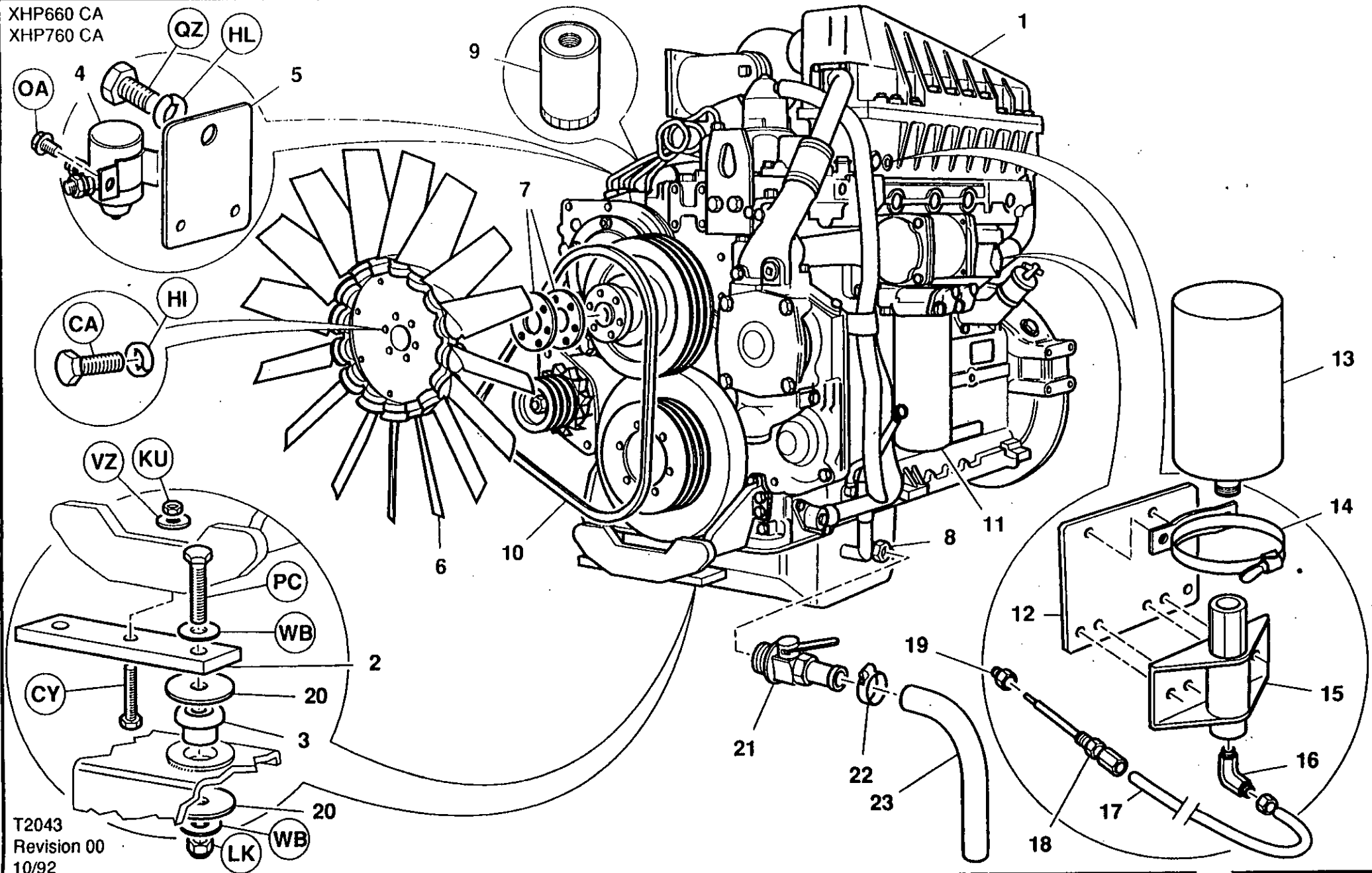
	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA							
XHP 660 CA							
	92	92304385	3	Setscrew	Vis	Intelschroef	Sartschrause
	93	92304674	3	Washer	Rondelle	Ring mo	Unterlegscheibe
	94	92308618	2	Backplate			
	95	92308626	2	Shoe			
	96	92308634	2	Shoe			
	97	92309079	2	Spring	Ressort	Veer	Feder
	98	92309097	2	Adjuster			
	99	92309103	2	Tappet			
	100	92309095	2	Tappet			
	101	92309137	2	Housing	Carter	Zuigerhuis	Gehäusew
	102	92309145	2	Spring	Ressort	Veer	Feder
	103	92309152	2	Plate			
	104	92309160	2	Locknut	Ecrou	Borgmoer	
	105	92309178	2	Nut	Ecrou	Moer	Mutter
	106	92309186	2	Cover			
	107	92309202	4	Nut	Ecrou	Moer	Mutter

Revision 00
10/92

10.0.11 RUNNING GEAR
- UNBRAKED

10.1.0 ENGINE ASSEMBLY

XHP660 CA
XHP760 CA



Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA XHP 660 CA						
1	92865666	1	Engine			
2	92919497	1	Mounting bar			
3	92062157	2	Bush	Palier	Bus	Hülse
4	35577873	1	Switch			
5	92517739	1	Bracket	Support	Beugel	Stützblech
6	92893254	1	Fan	Ventilateur	Ventilator	Lüfter
7	92865518	2	Spacer			
8	92899863	1	Valve, drain			
9	92744523	1	Filter, fuel			
10	92960442	1	Belt, drive	Courroie de transmission	Snaar	Antiebsriemen
11	92658095	1	Filter, oil			
12	92955293	1	Bracket	Support	Beugel	Stützblech
13	92472397	1	Cylinder			
14	92955277	1	Clamp	Collier	Klem	Schelle
15	92955269	1	Valve	Clapet	Klep	Ventil
16	92955285	1	Elbow	Coude	Bochtstuk	Krümmer
17	92397702	1	Tube (Nylon)	Tube	Leiding	Schlauch
18	92419514	1	Atomizer			
19	92354364	1	Bush, reducing			
20	35273937	2	Washer, snubber			
21	92899863	1	Valve, drain			
22	92803998	1	Clip, hose			
23	92886399	1	Tube			

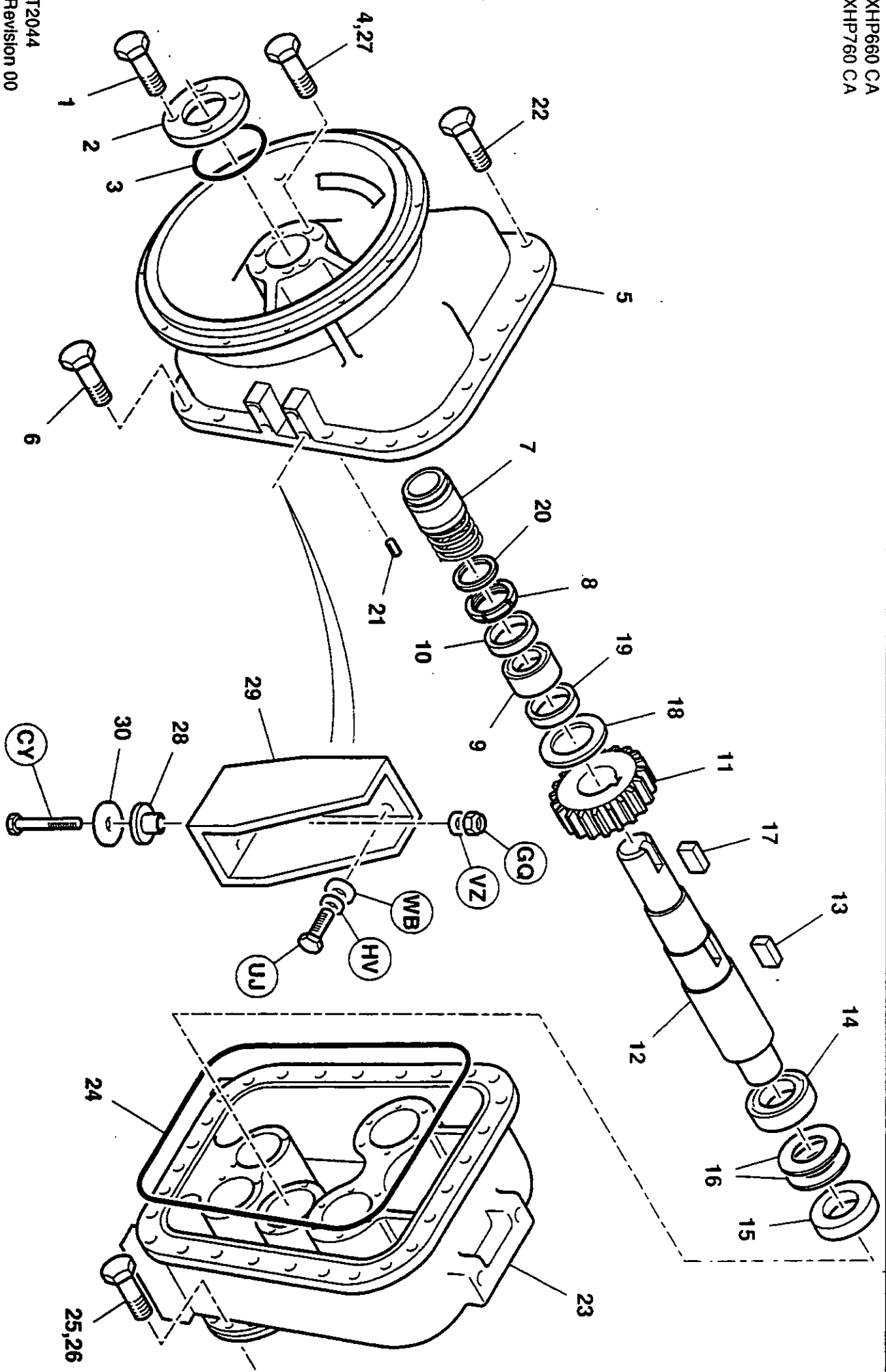
Revision 00
10/92

10.1.1 ENGINE ASSEMBLY

10.1.2 AIREND ASSEMBLY

XHP660 CA
XHP760 CA

T2044
Revision 00
10/92



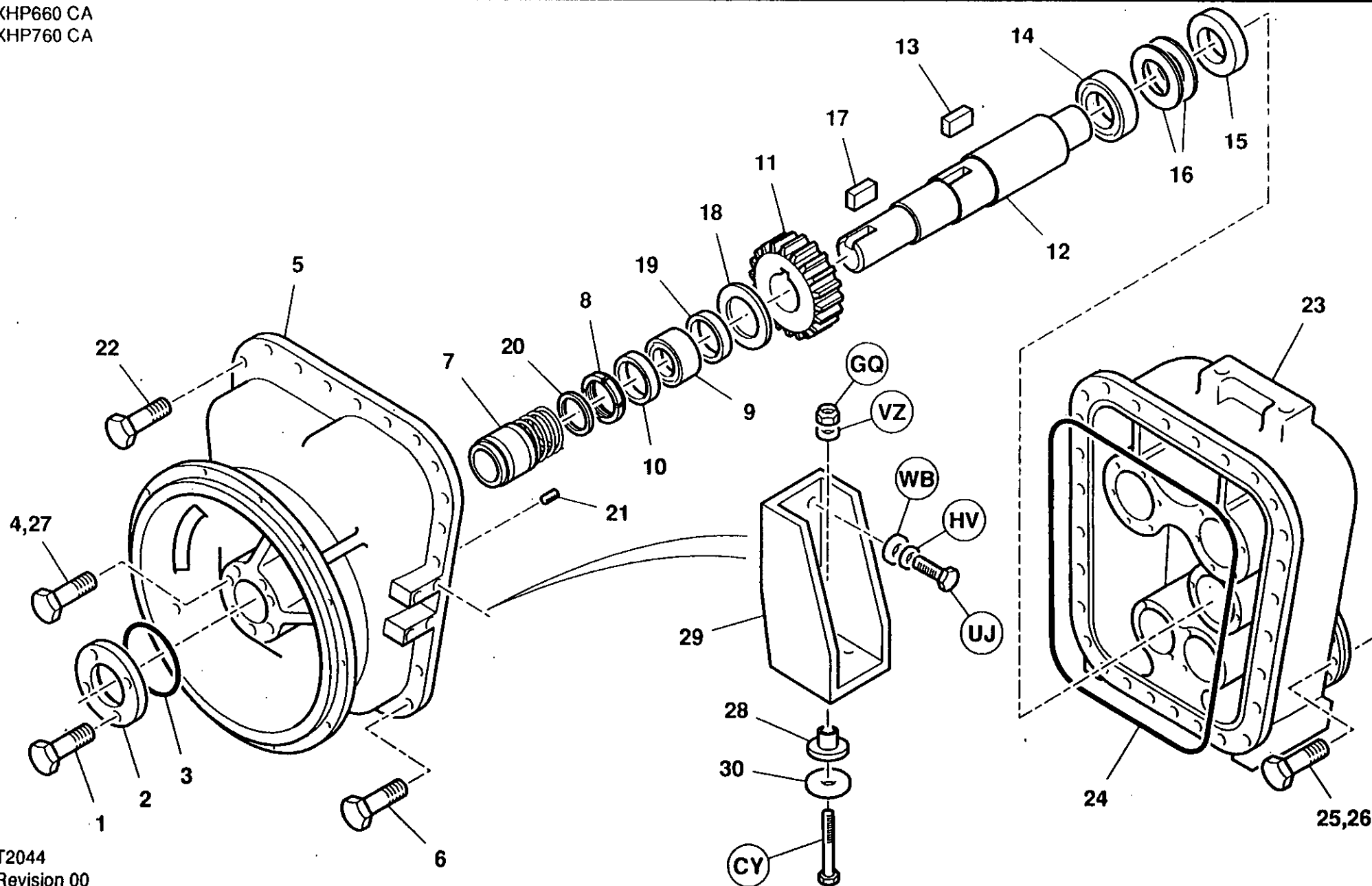
	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA	1	92304435	4	Bolt		Bout	
	2	35856467	1	Cover			
	3	95022372	1	'O' Ring	Joint torique	'O'Ring	'O'Ring
	4	35361286	3	Bolt		Bout	
	5	36750909	1	Gearcase			
	6	35318146	18	Bolt		Bout	
	7	35593516	1	Seal			
	8	35104082	1	Locknut	Ecrou	Borgmoer	
	9	35610195	1	Bearing			
	10	35372002	1	Spacer			
	11	36763183	1	Gear-set (XHP 760)			
	11	36746410	1	Gear-set (XHP 660)			
	12	36504116	1	Driveshaft			
	13	35355809	1	Key	Clef	Spie	Schlüssel
	14	35610203	1	Bearing			
	15	35372010	1	Spacer			
	16	35372028	1	Set, shim			

Revision 00
10/92

10.1.3 AIREND ASSEMBLY

10.1.4 AIREND ASSEMBLY

XHP660 CA
XHP760 CA



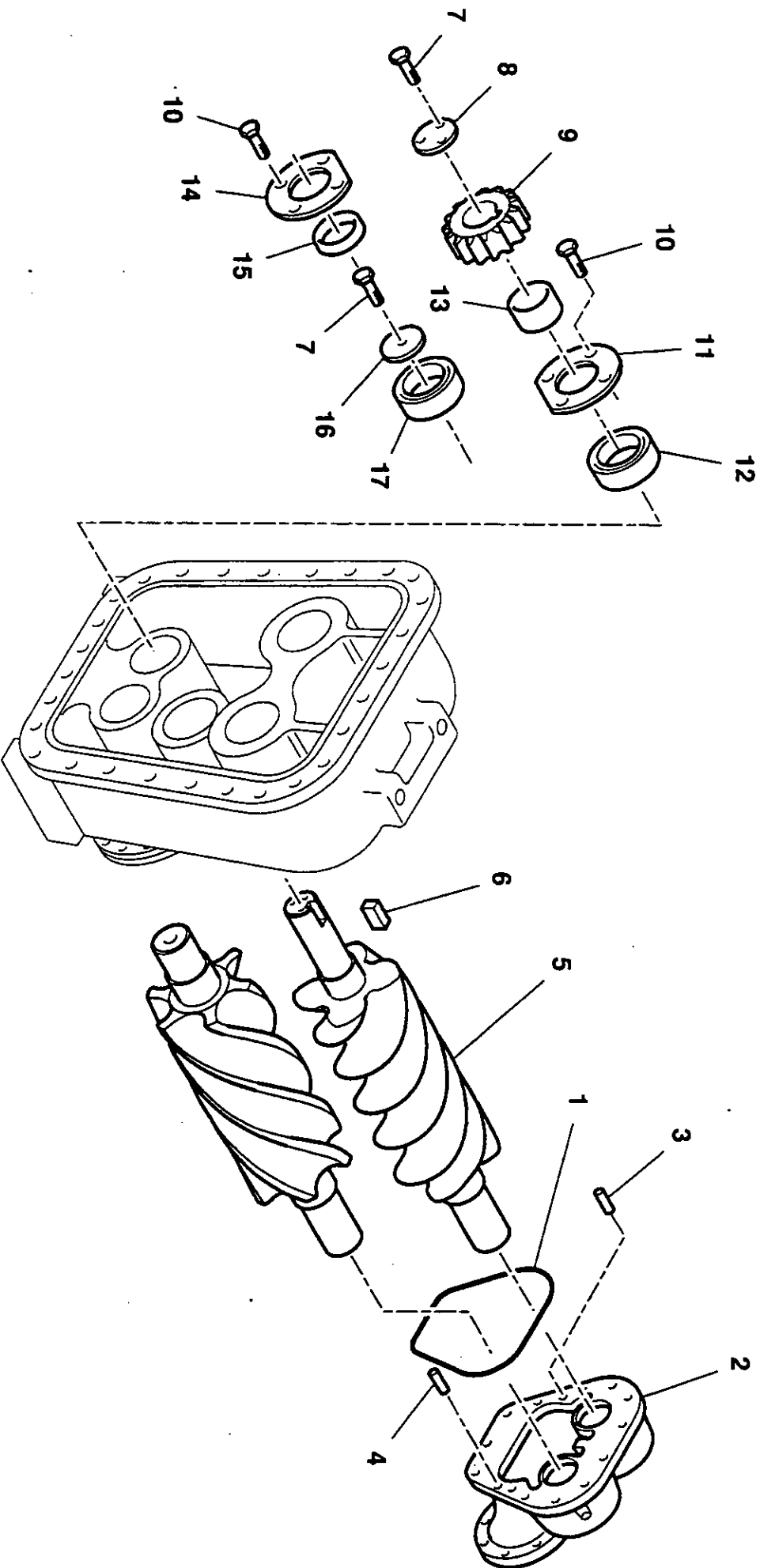
	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA XHP 660 CA	17	35364975	1	Key	Clel	Spie	Schlüssel
	18	35610153	1	Plate, retaining			
	19	35371996	1	Spacer			
	20	35337583	1	Spacer			
	21	35336122	1	Dowel			
	22	35272541	1	Bolt		Bout	
	23	36737161	1	Housing	Carter	Zuigerhuis	Gehäusew
	24	35355775	1	'O' Ring	Joint torique	'O'Ring	'O'Ring
	25	35271139	1	Bolt		Bout	
	26	35272533	1	Bolt		Bout	
	27*	39101449	1	Plug	Bouchon	Plug	Stopfen
	28	92062157	2	Mount			
	29	92893114	2	Bracket	Support	Beugel	Stützblech
	30	35273937	2	Washer, snubber			

Revision 00
10/92

10.1.5 AIREND ASSEMBLY

10.1.6 AIREND ASSEMBLY

XHP660 CA
XHP760 CA



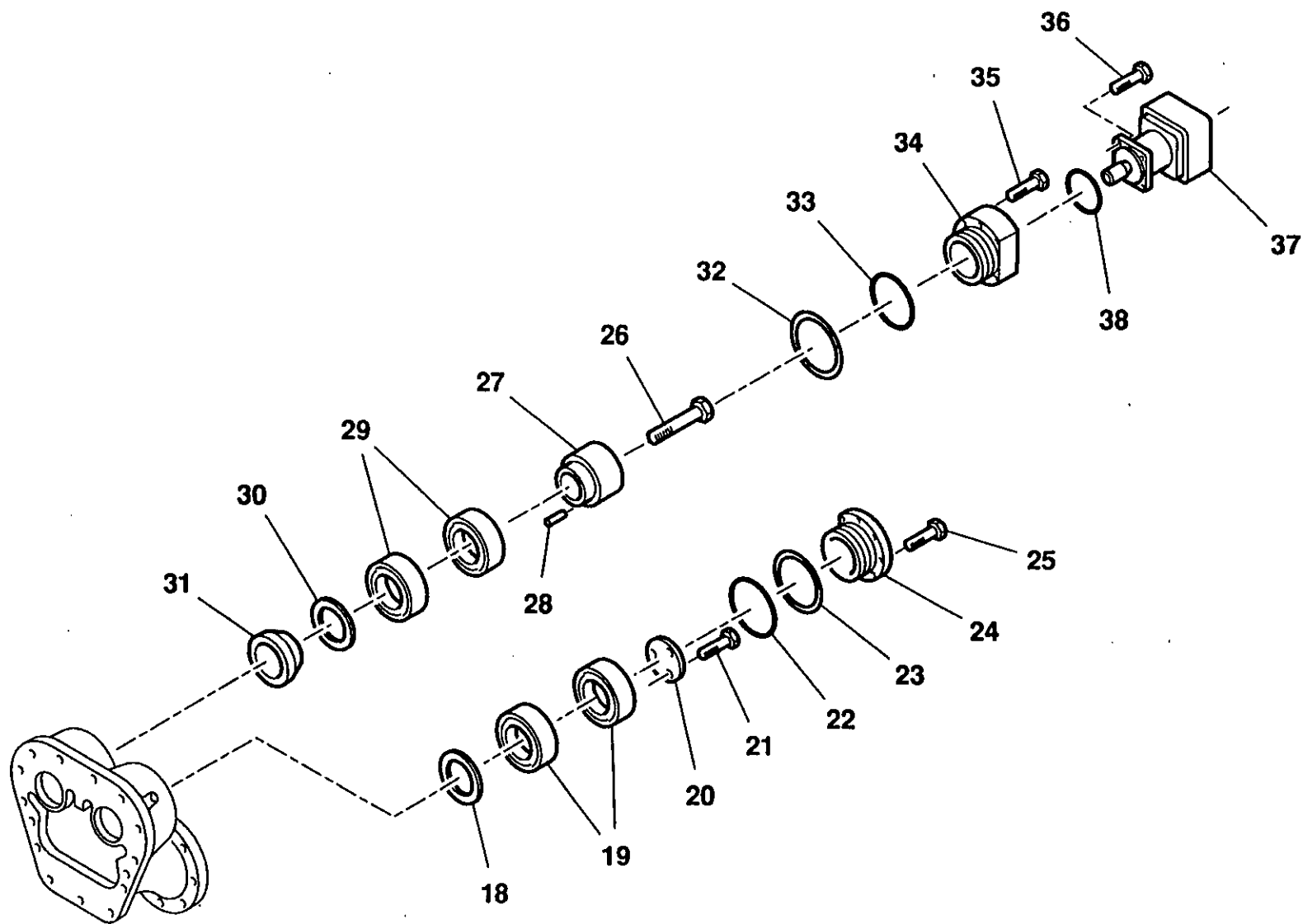
		Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA								
XHP 660 CA								
		1	35355791	1	'O' Ring	Joint torique	'O'Ring	'O'Ring
		2	36738128	1	Housing	Carter	Zuigerhuis	Gehäusew
		3	35336122	1	Dowel			
		4	35336130	1	Dowel			
		5	35088954	1	Set, rotor			
		6	35355817	1	Key	Clef	Spie	Schlüssel
		7	35311463	4	Bolt		Bout	
		8	35300193	1	Plate			
		9	36763183	1	Gear-set (XHP 760)			
		9	36746410	1	Gear-set (XHP 660)			
		10	35273408	8	Bolt		Bout	
		11	35355965	1	Plate, retaining			
		12	35600022	1	Bearing			
		13	35355866	1	Spacer			
		14	35355999	1	Plate, retaining			
		15	35355973	1	Spacer			
		16	35300201	1	Plate			
		17	35600014	1	Bearing			

Revision 00
10/92

10.1.7 AIREND
ASSEMBLY

10.1.8 AIREND ASSEMBLY

XHP660 CA
XHP760 CA



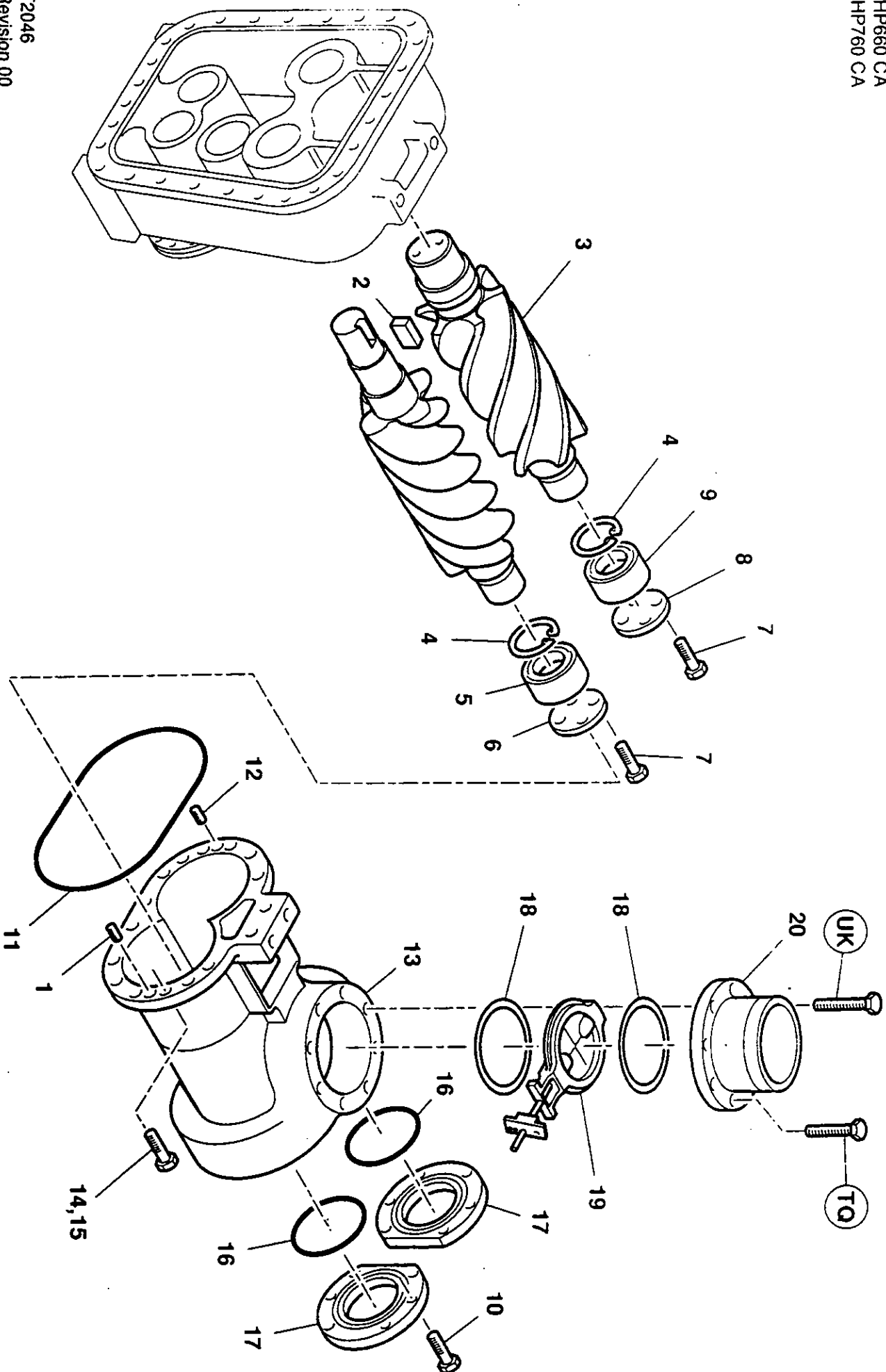
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA XHP 660 CA						
18		1	Set, shim			
19		1	Bearing			
20		1	Plate			
21		1	Bolt		Bout	
22		1	'O' Ring	Joint torique	'O' Ring	'O' Ring
23		1	Set, shim			
24		1	Cover			
25		1	Bolt		Bout	
26		1	Bolt		Bout	
27		1	Coupling			
28		1	Dowel			
29		1	Bearing			
30		1	Set, shim			
31		1	Piston	Piston	Zuiger	Kolben
32		1	Set, shim			
33		1	'O' Ring	Joint torique	'O' Ring	'O' Ring
34		1	Cover			
35		1	Bolt		Bout	
36		1	Bolt		Bout	
37		1	Oil pump			
38		1	Bolt		Bout	

Revision 00
10/92

10.1.9 AIREND ASSEMBLY

AIREND ASSEMBLY

XHP660 CA
XHP760 CA



T2046
Revision 00
10/92

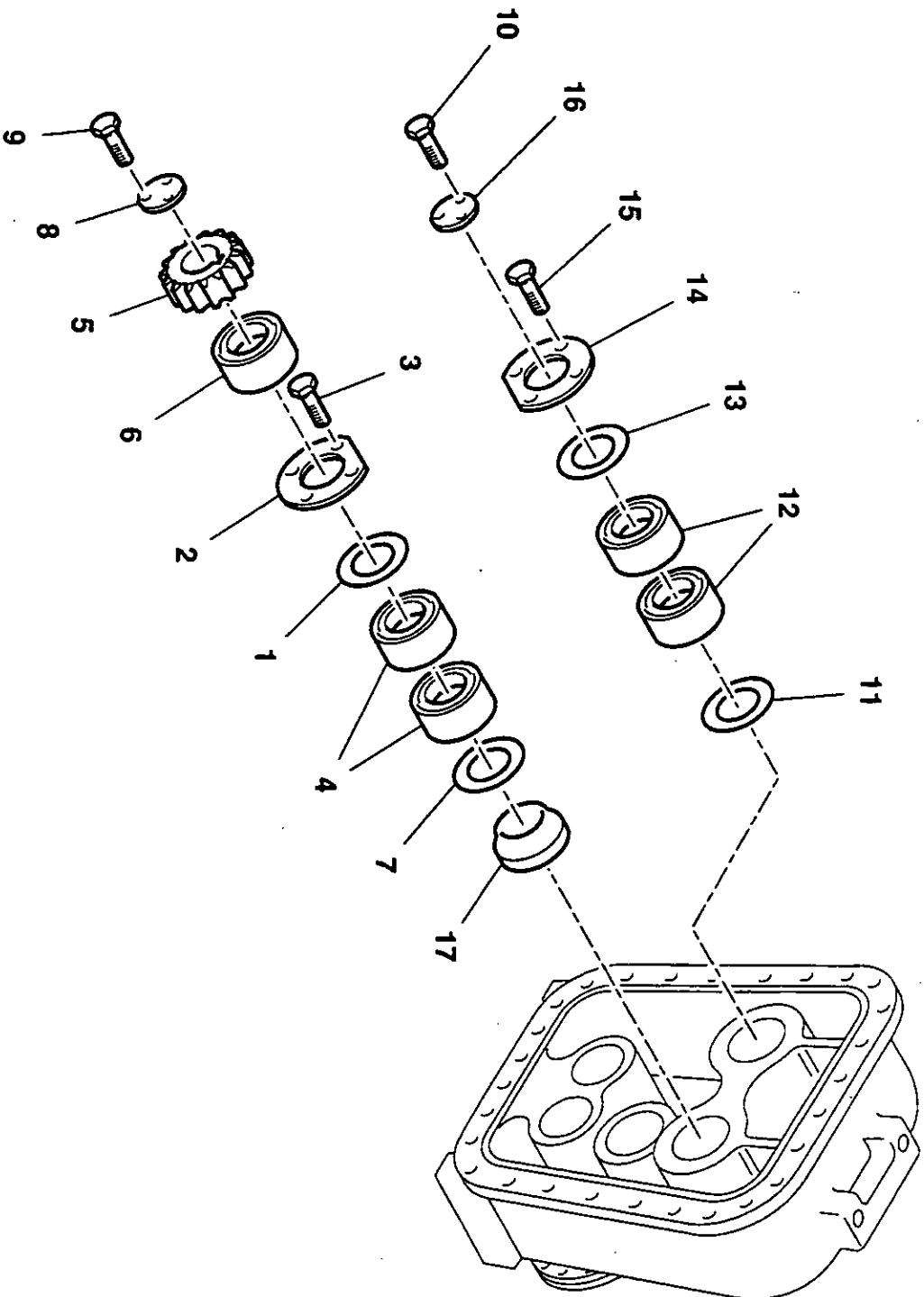
	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA	1	35336122	1	Dowel			
	2	35355817	1	Key	Clef	Spie	Schlüssel
	3	35082114	1	Set, rotor			
	4	95223178	2	Circlip			
	5	35600030	1	Bearing			
	6	35300193	1	Plate			
	7	35311463	8	Bolt		Bout	
	8	35300193	1	Plate			
	9	35600022	1	Bearing			
	10	92329309	12	Bolt		Bout	
	11	35355783	1	'O' Ring	Joint torique	'O'Ring	'O'Ring
	12	35336130	1	Dowel			
	13	36738797	1	Housing	Carter	Zuigerhuis	Gehäusew
	14	35356039	16	Bolt		Bout	
	15	35295344	16	Bolt		Bout	
	16	35355502	1	'O' Ring	Joint torique	'O'Ring	'O'Ring
	17	35351883	1	Plate			
	18	95214524	2	Gasket	Joint	Pakking	Dichtung
	19	35285626	1	Valve	Clapet	Klep	Ventil
	20	92893197	1	Flange			

Revision 00
10/92

10.1.11 AIREND
ASSEMBLY

AIREND ASSEMBLY

XHP660 CA
XHP760 CA



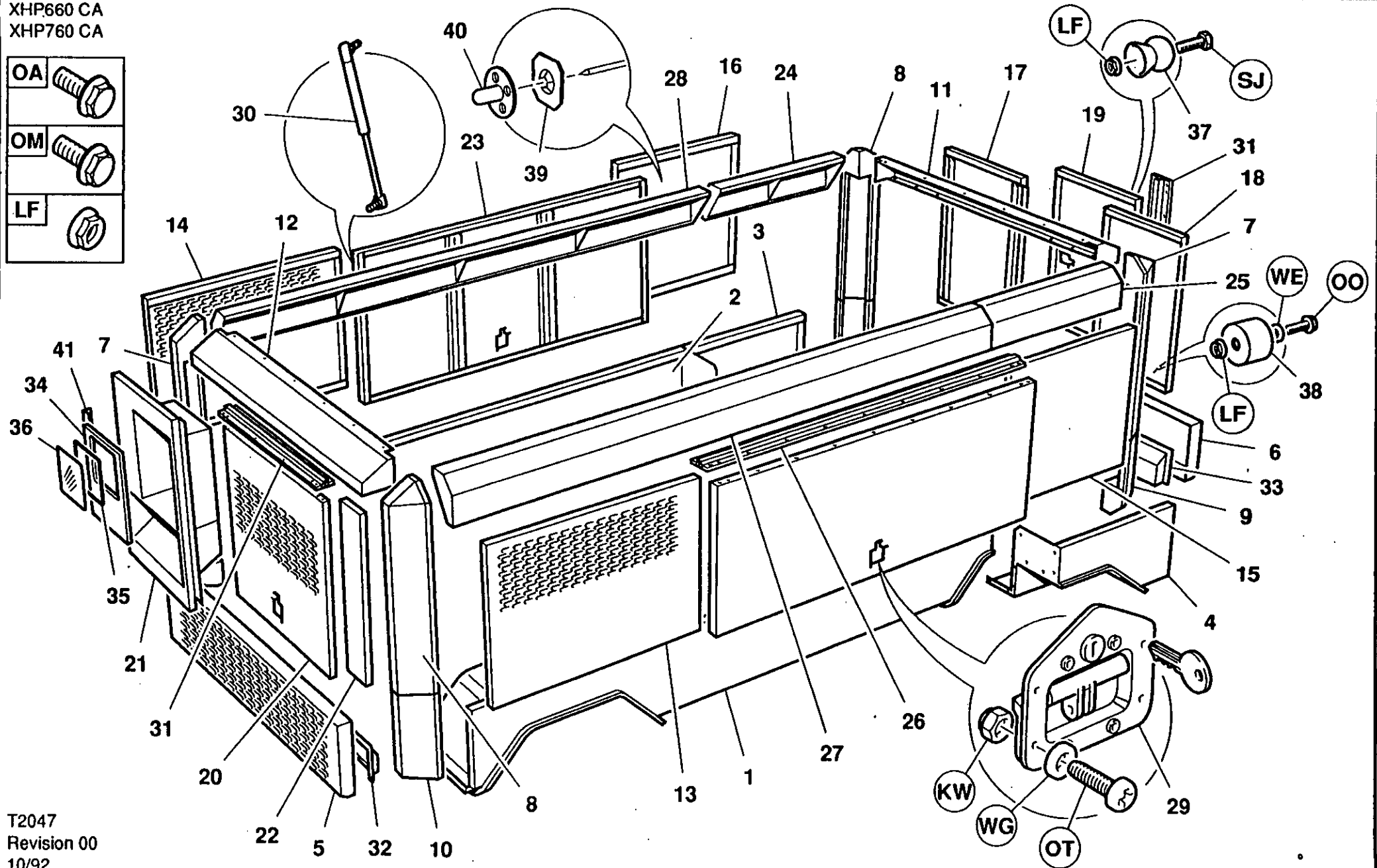
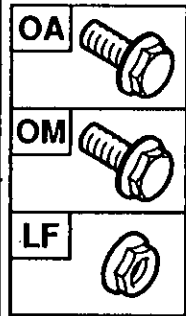
T2059
Revision 00
10/92

	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA							
XHP 660 CA							
	1	35355767	1	Set, shim			
	2	36501013	1	Plate			
	3	35271154	6	Bolt		Bout	
	4	35605203	2	Bearing			
	5	36763183	1	Gear-set (XHP 760)			
	5	36746410	1	Gear-set (XHP 660)			
	6	35355841	1	Spacer			
	7	35355825	1	Set, shim			
	8	35355858	1	Plate			
	9	35271147	3	Bolt		Bout	
	10	35311463	3	Bolt		Bout	
	11	35355833	1	Set, shim			
	12	35600105	2	Bearing			
	13	35355767	1	Set, shim			
	14	35856418	1	Plate, retaining			
	15	92304393	6	Bolt		Bout	
	16	35300185	1	Plate			
	17	35602457	1	Piston	Piston	Zuiger	Kolben

10.1.13 AIREND ASSEMBLY

10.2.0 ENCLOSURE

XHP660 CA
XHP760 CA



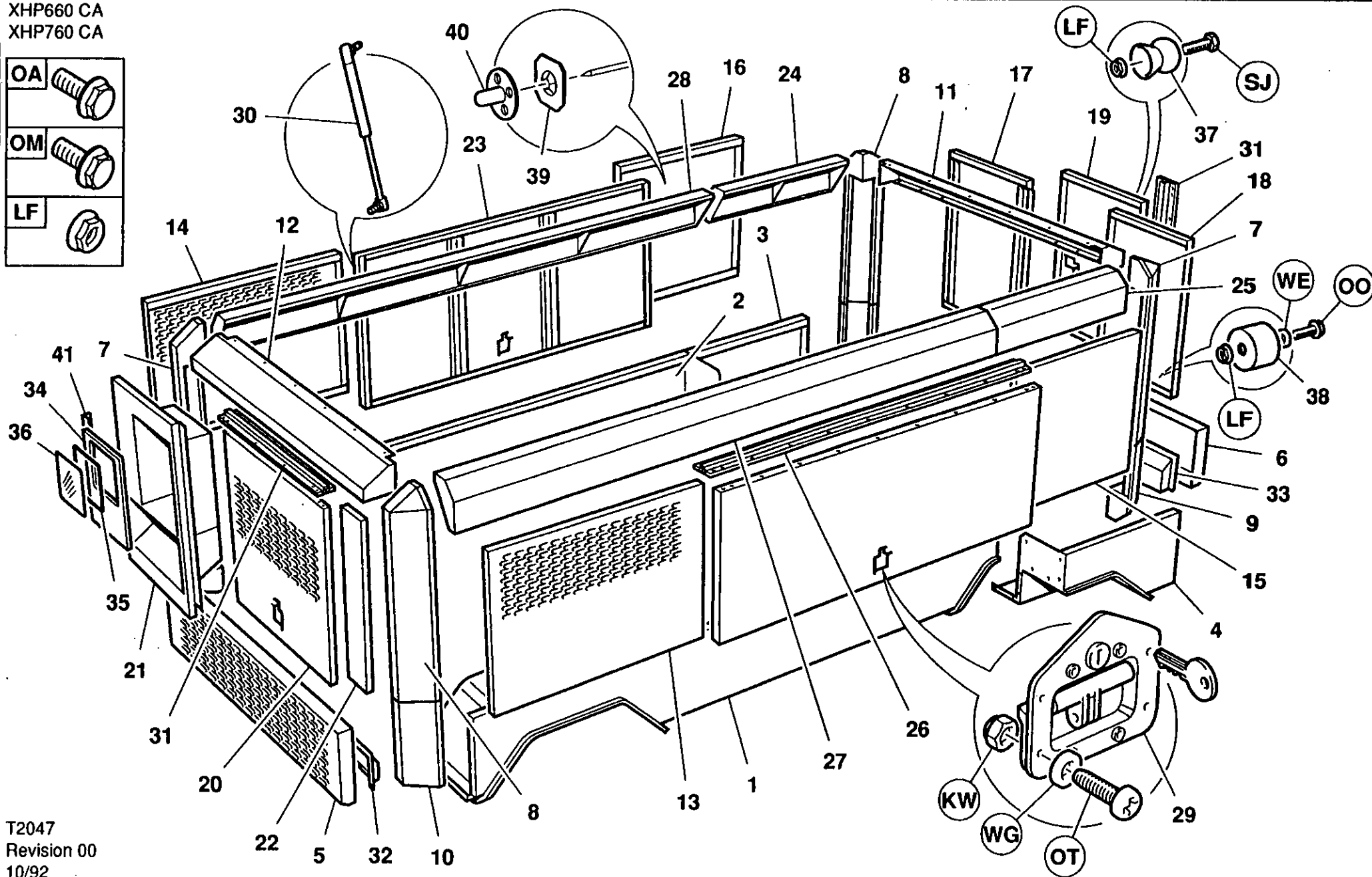
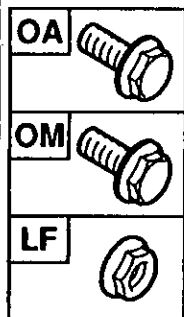
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA						
XHP 660 CA						
1	92893973	1	Panel LH Lower	Panneau	Paneel	Verkleidung
2	92893999	1	Panel RH Lower	Panneau	Paneel	Verkleidung
3	92893981	1	Panel LH Lower	Panneau	Paneel	Verkleidung
4	92894005	1	Panel RH Lower	Panneau	Paneel	Verkleidung
5	92923853	1	Panel Front Lower	Panneau	Paneel	Verkleidung
6	92893965	1	Panel Rear Lower	Panneau	Paneel	Verkleidung
7	92923754	2	Panel Corner Top	Panneau	Paneel	Verkleidung
8	92923739	2	Panel Corner Top	Panneau	Paneel	Verkleidung
9	92923747	2	Panel Corner Bottom	Panneau	Paneel	Verkleidung
10	92923721	2	Panel Corner Bottom	Panneau	Paneel	Verkleidung
11	92894443	1	Endcap Rear			
12	92930742	1	Endcap Front			
13	92930338	1	Panel RH Side Front	Panneau	Paneel	Verkleidung
14	92930361	1	Panel LH Side Front	Panneau	Paneel	Verkleidung
15	92930346	1	Panel RH Side Rear	Panneau	Paneel	Verkleidung
16	92930353	1	Panel LH Side Rear	Panneau	Paneel	Verkleidung
17	92898899	1	Panel Rear RH	Panneau	Paneel	Verkleidung
18	92898865	1	Panel Rear LH	Panneau	Paneel	Verkleidung
19	92898881	1	Door			
20	92923911	1	Door			
21	92923762	1	Panel, instrument	Panneau instruments	Kontrolepaneel	Armaturen Brett
22	92924133	1	Panel Front RH	Panneau	Paneel	Verkleidung
23	92898949	2	Door			

Revision 00
10/92

10.2.1 ENCLOSURE

10.2.2 ENCLOSURE

XHP660 CA
XHP760 CA



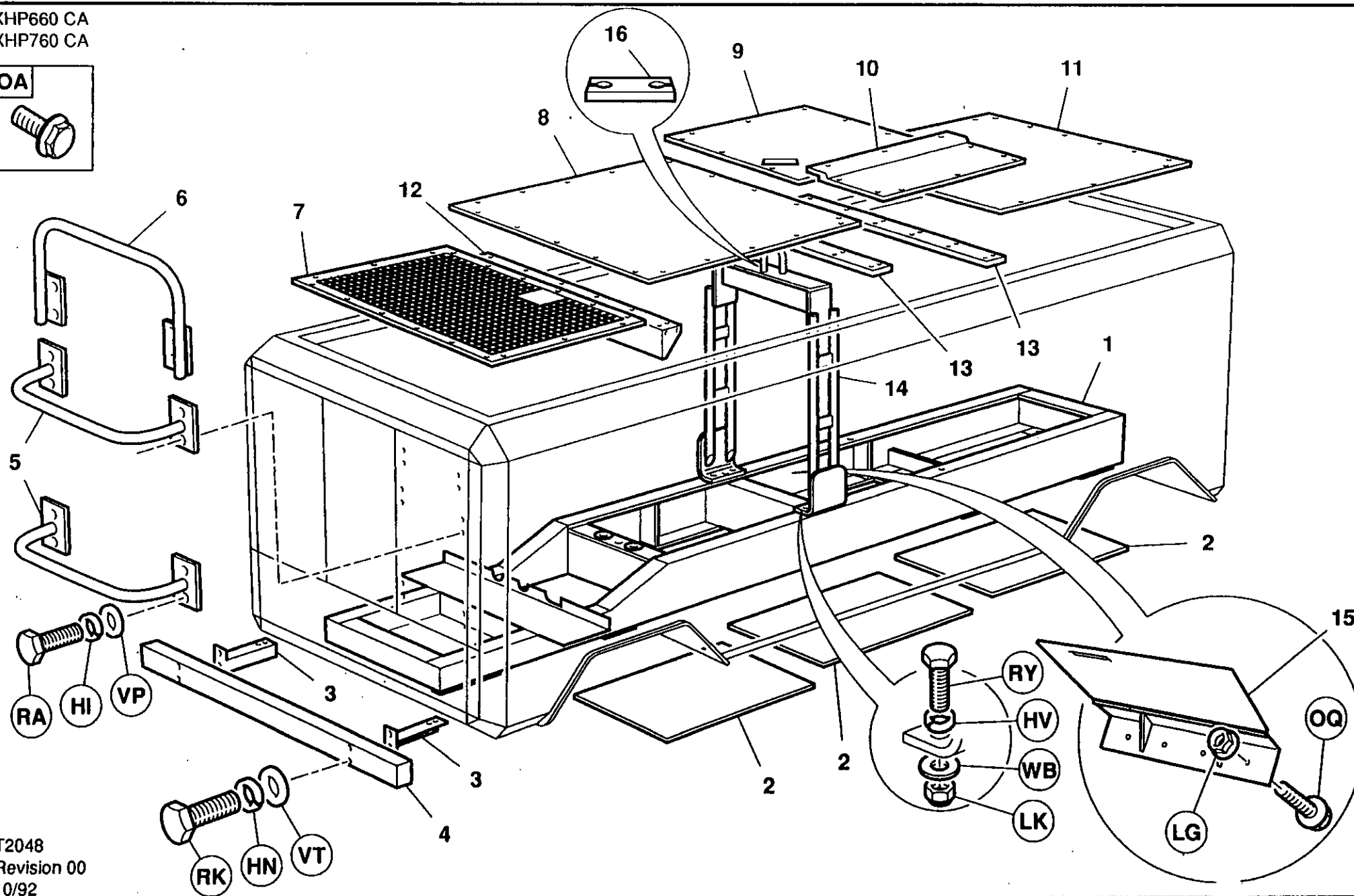
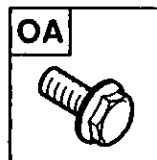
	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA							
XHP 760 CA							
	24	92950716	1	Panel	Panneau	Paneel	Verkleidung
	25	92898923	1	Panel	Panneau	Paneel	Verkleidung
	26	92912419	2	Hinge			
	27	92898931	1	Panel	Panneau	Paneel	Verkleidung
	28	92950708	1	Panel	Panneau	Paneel	Verkleidung
	29	92816859	4	Latch	Verrou	Sluiting	Klinke
	30	35584036	5	Spring, gas			
	31	92912427	2	Hinge			
	32	92950260	1	Panel Duct, Front	Panneau	Paneel	Verkleidung
	33	92950278	1	Panel Duct, Rear	Panneau	Paneel	Verkleidung
	34	92921168	1	Door			
	35	35251800	1m	Seal			
	36	92061811	1	Window			
	37	92922863	1	Door holder (Male)			
	38	92922855	1	Door holder (Female)			
	39	92894542	80	Retainer			
	40	92104264	80	Protector			
	41	92921176	1	Hinge			

Revision 00
10/92

10.2.3 ENCLOSURE

10.2.4 ENCLOSURE

XHP660 CA
XHP760 CA



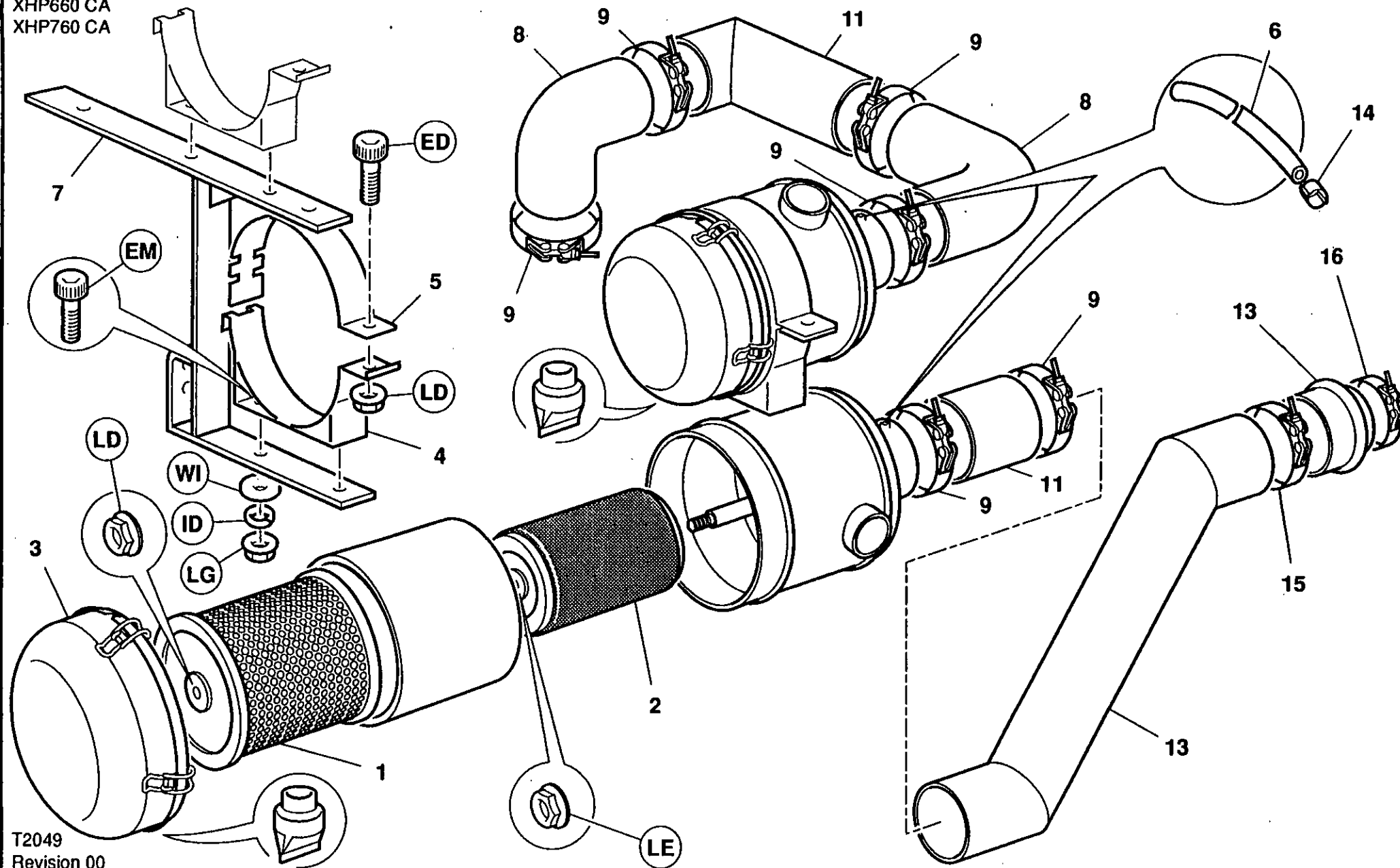
	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA XHP 660 CA	1	92868850	1	Chassis			
	2	92951029	3	Panel	Panneau	Paneel	Verkleidung
	3	92894088	2	Bracket	Support	Beugel	Stützblech
	4	92912393	1	Bumper			
	5	92912954	2	Step			
	6	92912062	1	Handrail			
	7	92898998	1	Grille			
	8	92898956	1	Panel Roof, Front	Panneau	Paneel	Verkleidung
	9	92898964	1	Panel Roof, Centre	Panneau	Paneel	Verkleidung
	10	92898972	1	Panel Roof, RH	Panneau	Paneel	Verkleidung
	11	92898980	1	Panel Roof, Front	Panneau	Paneel	Verkleidung
	12	92899020	1	Support	Support		
	13	92899012	2	Support	Support		
	14	92893106	1	Bail, lifting			
	15	92899889	1	Battery cover			
	16	92899384	1	Seal			

Revision 00
10/92

10.2.5 ENCLOSURE

10.3.0 AIR INTAKE

XHP660 CA
XHP760 CA



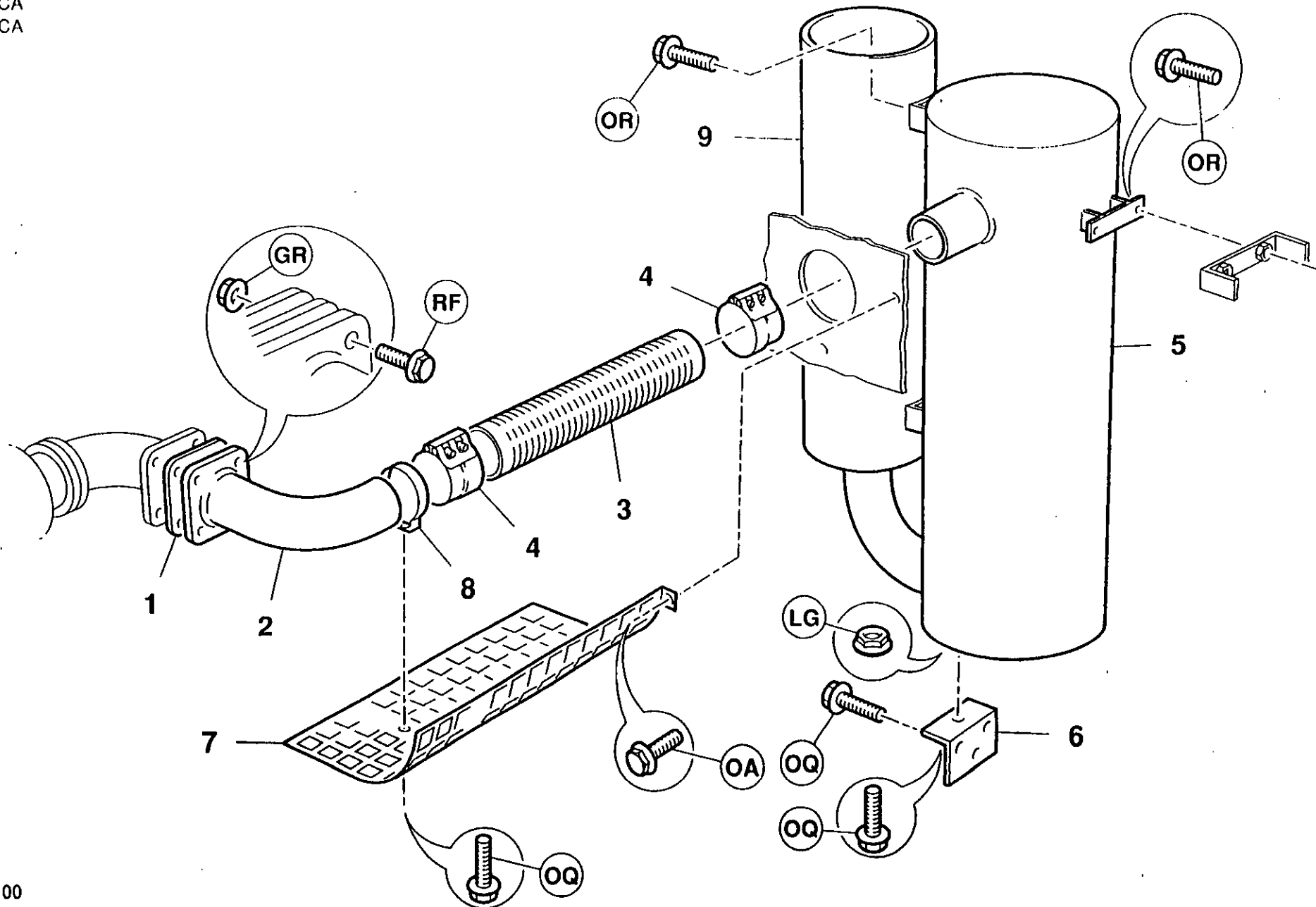
	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA	(1-3)	92055300	1	Filter assembly			
	1	92035948	1	Element, air filter			
	2	92035955	1	Element, safety			
	3	92035963	1	Cover			
	4	92920313	1	Mount			
	5	92920321	1	Strap			
	6	92111335	1	Hose	Flexible	Slang	Schlauch
	7	92951045	1	Bracket	Support	Beugel	Stützblech
	8	95281336	1	Elbow	Coude	Bochtstuk	Krümmen
	9	92275239	1	Clamp	Collier	Klem	Schelle
	10	92951060	1	Pipe			
	11	92952050	1	Hose	Flexible	Slang	Schlauch
	12	35264415	1	Hose	Flexible	Slang	Schlauch
	13	92951565	1	Pipe			
	14	92895473	1	Clip, hose			
	15	92472943	1	Clamp	Collier	Klem	Schelle
	16	92085995	1	Clamp	Collier	Klem	Schelle

Revision 00
10/92

10.3.1 AIR INTAKE

10.3.2 EXHAUST SYSTEM

XHP660 CA
XHP760 CA



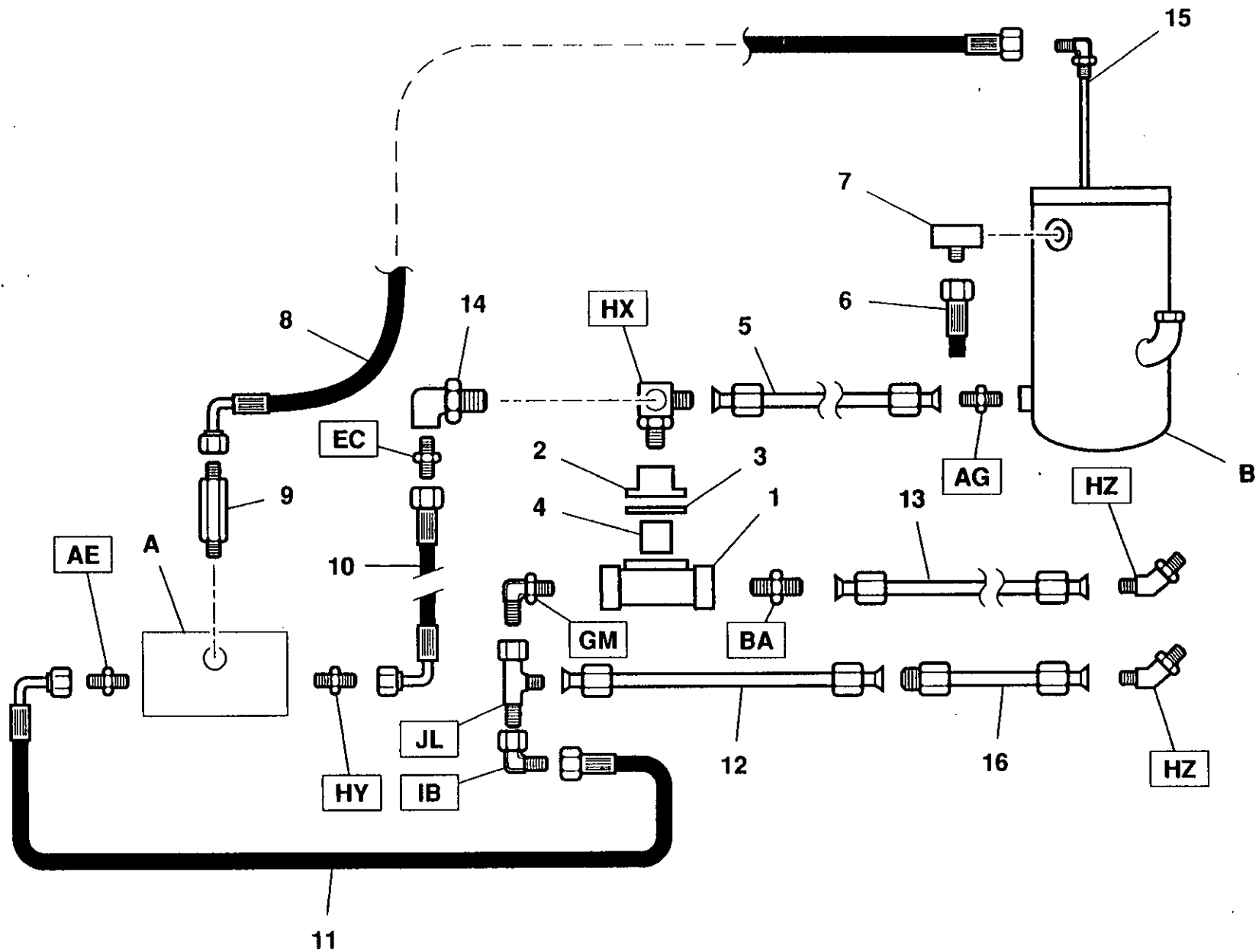
	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA XHP 660 CA	1	92517846	1	Gasket	Joint	Pakking	Dichtung
	2	92517846	1	Exhaust pipe			
	3	92814045	1	Exhaust pipe			
	4	92814052	2	Clamp	Collier	Klem	Schelle
	5	92893189	1	Muffler			
	6	92956820	1	Bracket	Support	Beugel	Stützblech
	7	92894104	1	Guard	Protection	Beschermkap	Schutzblech
	8	92920701	1	Support	Support		
	9	92893205	1	Guard	Protection	Beschermkap	Schutzblech

Revision 00
10/92

10.3.3 EXHAUST SYSTEM

10.4.0 OIL PIPING

XHP660 CA
XHP760 CA



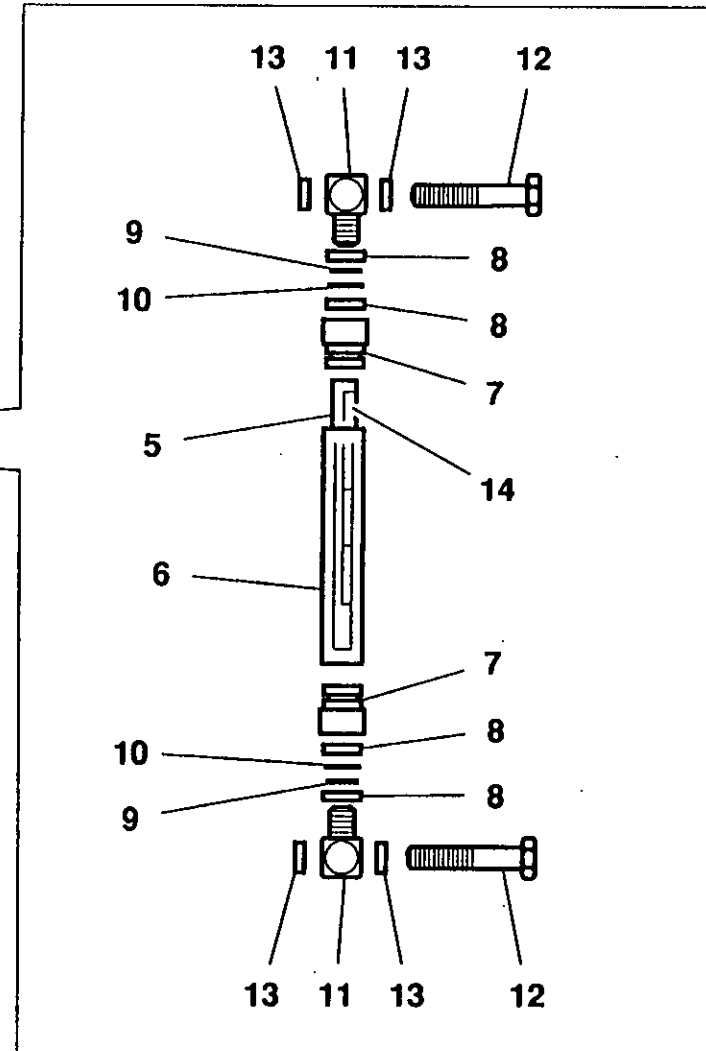
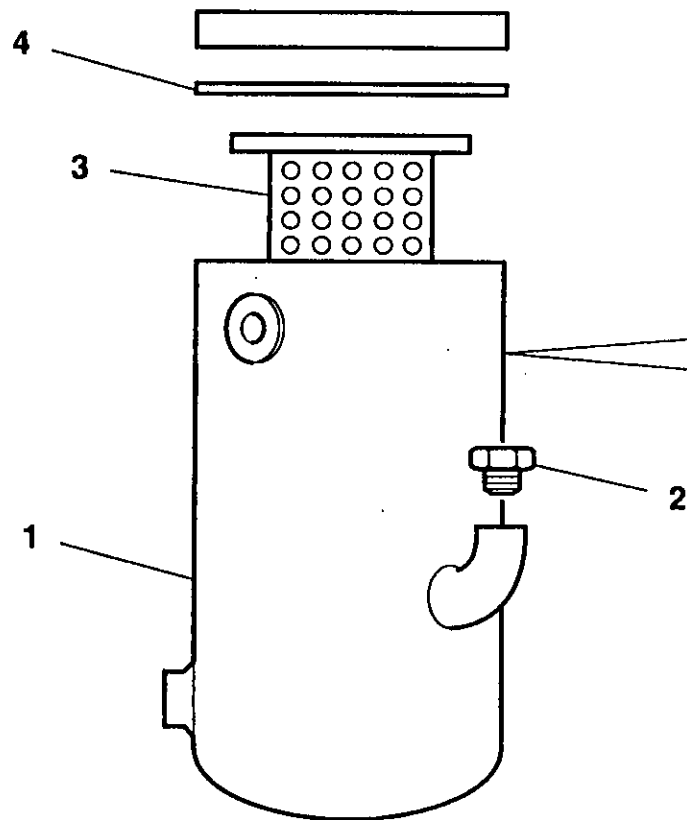
	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA	A		1	Airend	Airend	Schroefgedeelte	Verdichter
	B		1	Tank, separator	Réservoir séparateur	Afscheidertank	Abscheider-behälter
	1-4	92752203	1	Valve, temperature bypass			
	1	92707512	1	Body			
	2	92707520	1	Cover			
	3	92707538	1	Gasket	Joint	Pakking	Dichtung
	4	35288117	1	Valve	Clapet	Klep	Ventil
	5	92918945	1	Tube assembly	Tube	Leiding	Schlauch
	6	92895267	1	Hose assembly	Flexible	Slang	Schlauchsystem
	7	92892934	1	Valve, safety	Soupape de sécurité	Veiligheidsklep	Sicherheitsventil
	8	92956598	1	Hose assembly	Flexible	Slang	Schlauchsystem
	9	92955244	1	Scavenge orifice			
	10	92899368	1	Hose assembly	Flexible	Slang	Schlauchsystem
	11	92899350	1	Hose assembly	Flexible	Slang	Schlauchsystem
	12	92951953	1	Tube assembly	Tube	Leiding	Schlauch
	13	92896174	1	Tube assembly	Tube	Leiding	Schlauch
	14	92892942	1	Valve, pressure relief			
	15	92895168	1	Drop-tube	Tube de recyclage	Terugvoerleiding	Spülschlauch
	16	92951996	1	Tube assembly	Tube	Leiding	Schlauch

Revision 00
10/92

10.4.1 OIL PIPING

10.4.2 SEPARATOR TANK

XHP660 CA
XHP760 CA



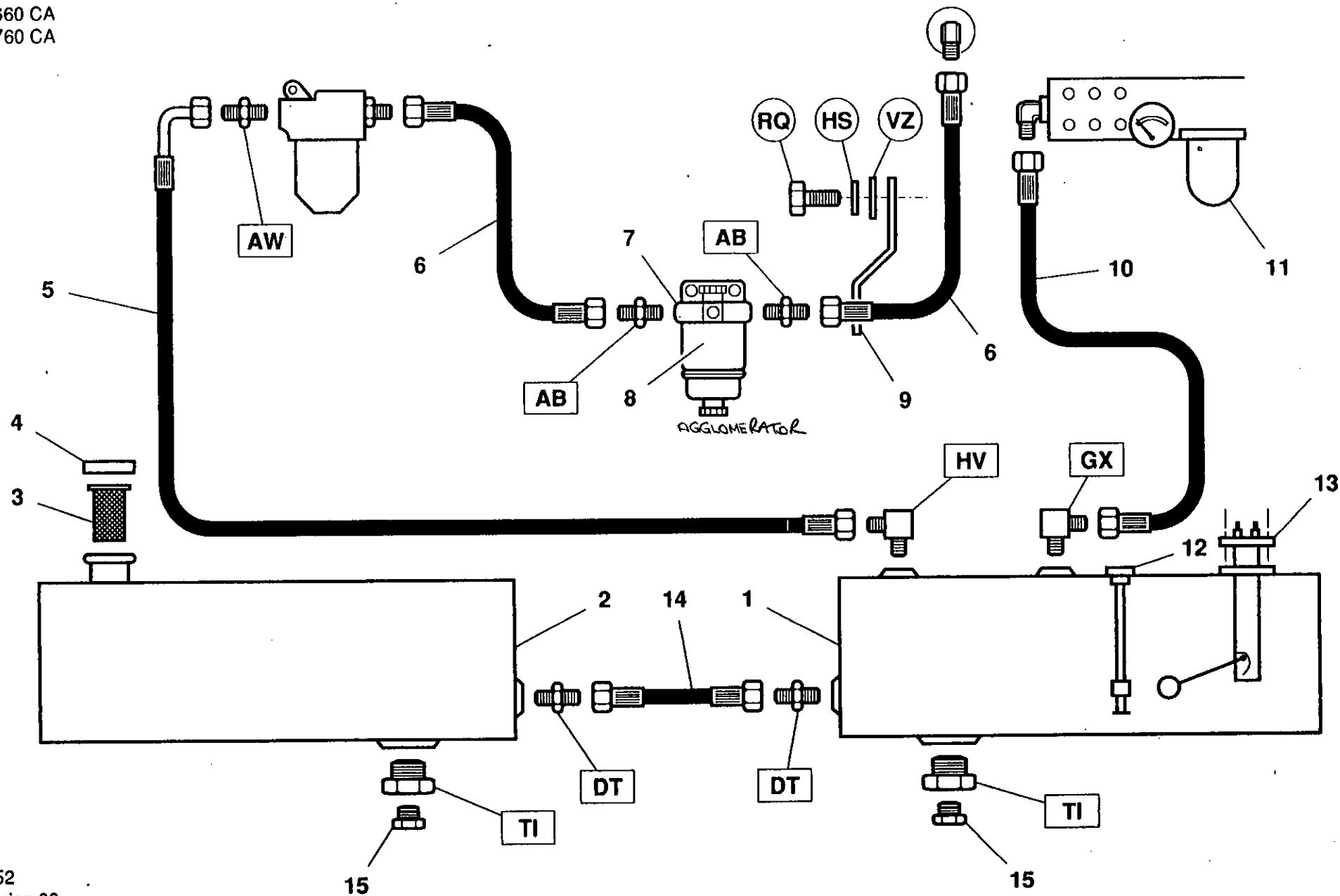
	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA							
XHP 660 CA							
	1	92865815	1	Tank, separator	Réservoir séparateur	Afscheidertank	Abscheider-behälter
	2	35579630	1	Cap			
	3	92894047	1	Element, oil filter			
	4	92765189	1	Gasket	Joint	Pakking	Dichtung
	5-14	92095363	1	Sight-glass	Niveau d'huile	Peilglas	Transparantes schlauchstück
	5	92095371	1	Tube			
	6	92095389	1	Tube			
	7	92095397	2	Nut	Ecrou	Moer	Mutter
	8	92095405	4	Ferrule			
	9	92095413	2	'O' Ring	Joint torique	'O'Ring	'O'Ring
	10	92095421	2	'O' Ring	Joint torique	'O'Ring	'O'Ring
	11	92095439	2	Collar			
	12	92095447	2	Nipple		Nippel	
	13	92293661	4	Seal			
	14	92094994	1	Indicator			

Revision 00
10/92

10.4.3 SEPARATOR TANK

10.5.0 FUEL SYSTEM

XHP660 CA
XHP760 CA



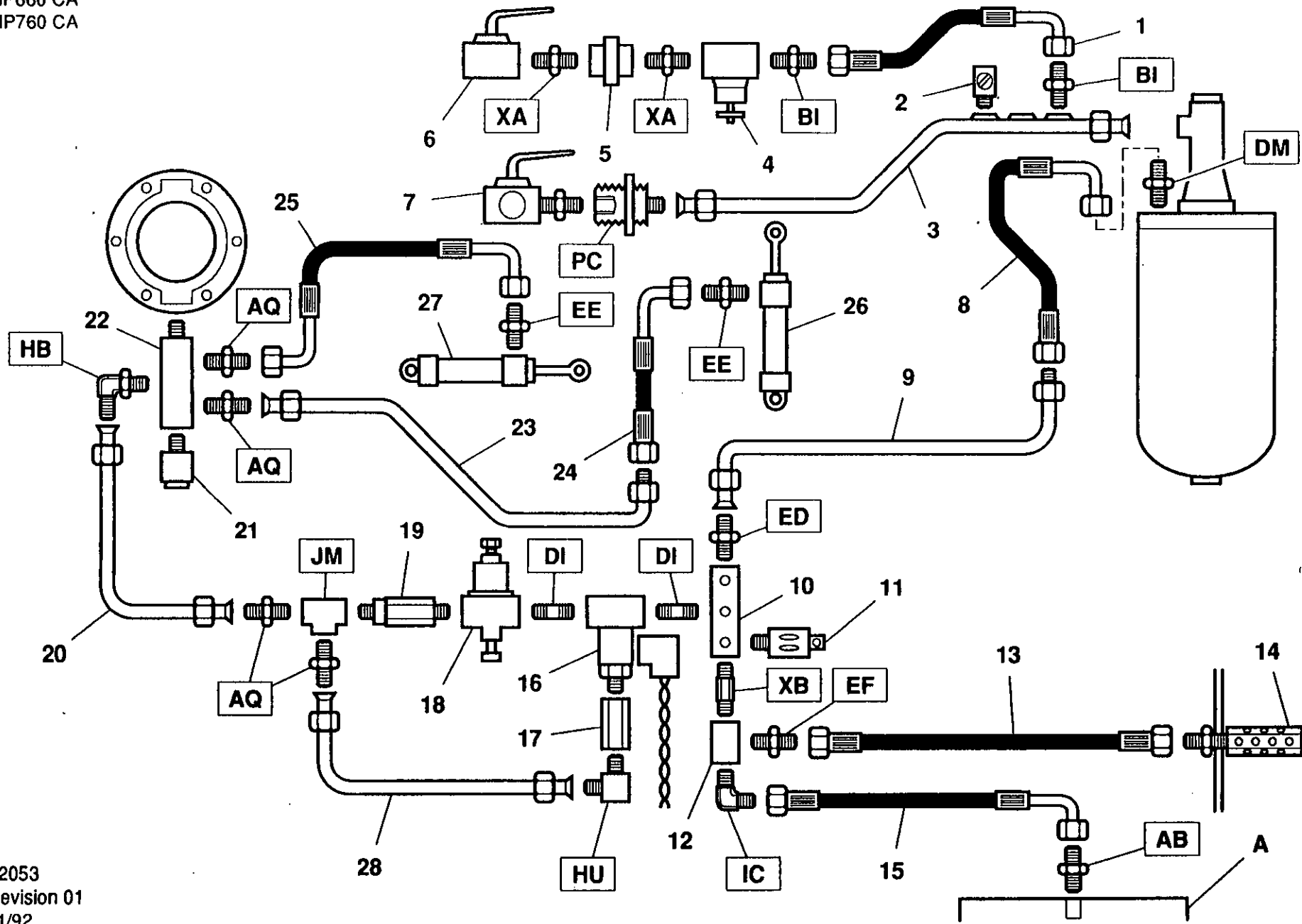
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA						
1	92891571	1	Fuel tank LH			
2	92891563	1	Fuel tank RH			
3	92043058	2	Filter, fuel			
4	92120013	2	Cap, fuel filler			
5	92911940	1	Hose assembly	Flexible	Slang	Schlauchsystem
6	92894948	2	Hose assembly	Flexible	Slang	Schlauchsystem
7	92894930	1	Filter, fuel			
8	92894989	1	Element, fuel filter			
9	92961614	1	Bracket	Support	Beugel	Stützblech
10	92911957	1	Hose assembly	Flexible	Slang	Schlauchsystem
11	92744523	1	Element, fuel filter			
12	92960970	1	Switch			
13	92062124	1	Sender unit			
14	92911932	1	Hose assembly	Flexible	Slang	Schlauchsystem
15	92037464	2	Drain cock			

Revision 00
10/92

10.5.1 FUEL SYSTEM

10.6.0 REGULATION SYSTEM

XHP660 CA
XHP760 CA



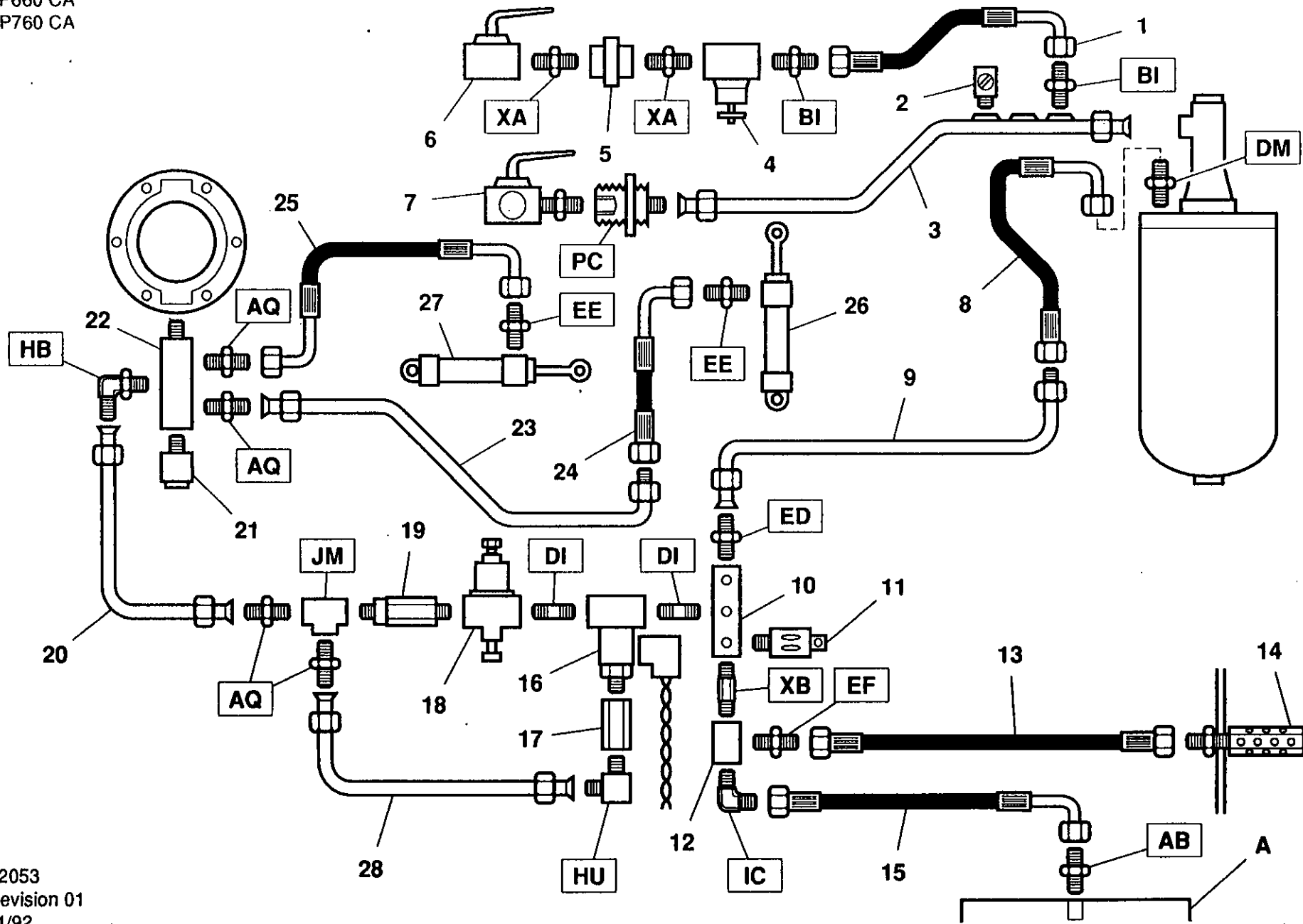
	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA XHP 660 CA	1	92094580	1	Hose assembly	Flexible	Slang	Schlauchsystem
	2	92069038	1	Valve, ball			
	3	92956515	1	Tube assembly	Tube	Leiding	Schlauch
	4	92956952	1	Valve Pressure reduction	Clapet	Klep	Ventil
	5	92956945	1	Adaptor	Adapteur	Adapter	Anschlußnippel
	6	92294461	1	Valve, hand			
	7	92530047	1	Valve, ball			
	8	92956630	1	Hose assembly	Flexible	Slang	Schlauchsystem
	9	92956648	1	Tube assembly	Tube	Leiding	Schlauch
	10	92894880	1	Manifold	Distributeur	Verdeelstuk	Verteilerblock
	11	92043017	1	Valve, Relief			
	12	92892959	1	Valve, blowdown			
	13	92956614	1	Hose assembly	Flexible	Slang	Schlauchsystem

Revision 00
10/92

10.6.1 REGULATION SYSTEM

10.6.2 REGULATION SYSTEM

XHP660 CA
XHP760 CA



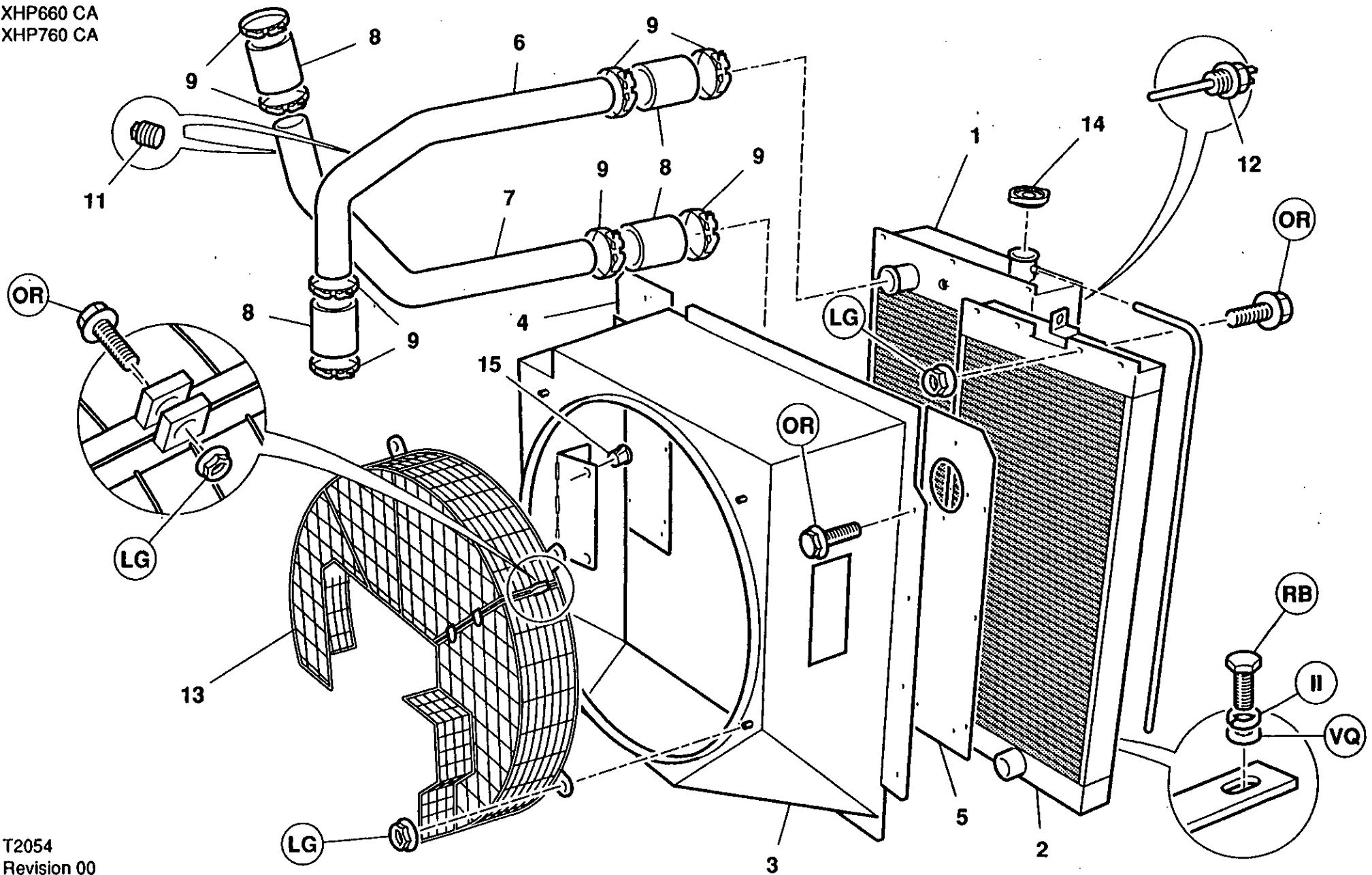
	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA XHP 660 CA	14	92912401	1	Muffler assembly			
	15	92956622	1	Hose assembly	Flexible	Slang	Schlauchsystem
	16	92956135	1	Valve, solenoid	Electro vanne	Solenoïdeklep	Magnetventil
	17	92812932	1	Valve, check	Vanne	Terugslagklep	Rückschlagventil
	18	92956093	1	Regulator		Regulateur	
	19	92898667	1	Valve, check	Vanne	Terugslagklep	Rückschlagventil
	20	92956663	1	Tube assembly	Tube	Leiding	Schlauch
	21	92517028	1	Valve, safety	Soupape de sécurité	Veiligheidsklep	Sicherheitsventil
	22	92893080	1	Manifold	Distributeur	Verdeelstuk	Verteilerblock
	23	92956671	1	Tube assembly	Tube	Leiding	Schlauch
	24	92898709	1	Hose assembly	Flexible	Slang	Schlauchsystem
	25	92898709	1	Hose assembly	Flexible	Slang	Schlauchsystem
	26	92700319	1	Cylinder			
	27	92956499	1	Cylinder			
	28	92956655	1	Tube assembly	Tube	Leiding	Schlauch

Revision 00
10/92

10.6.3 REGULATION SYSTEM

10.7.0 COOLING SYSTEM

XHP660 CA
XHP760 CA



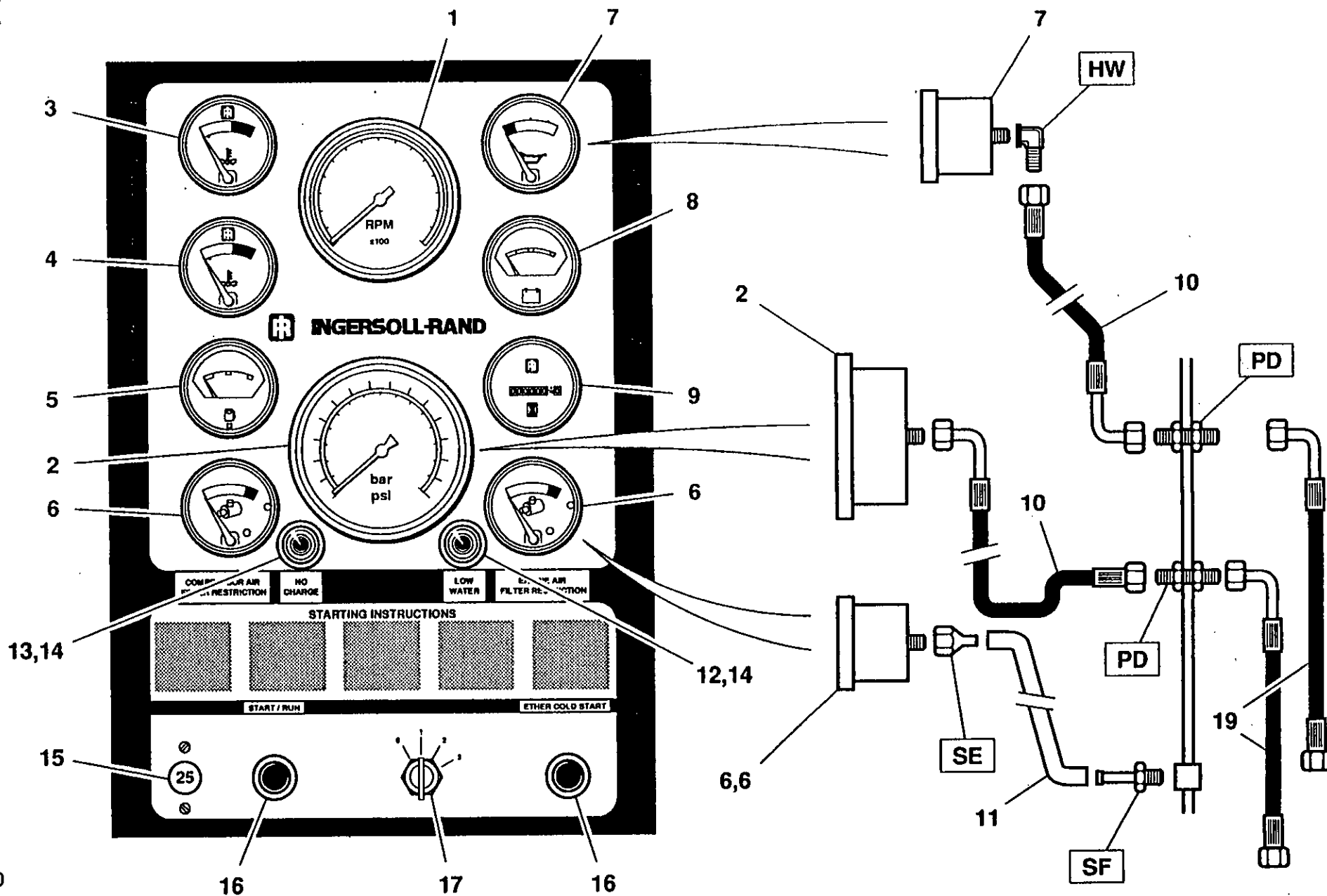
	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA XHP 660 CA	1	92886100	1	Radiator			
	2	92886092	1	Cooler	Réfrigérant	Koeler	Kühler
	3	92911783	1	Cowl	Capotage	Huis	Schutz
	4	92899046	1	Baffle wall LH			
	5	92899038	1	Baffle wall RH			
	6	92905900	1	Pipe			
	7	92905918	1	Pipe			
	8	92668920	4	Hose	Flexible	Slang	Schlauch
	9	92042233	8	Clamp	Collier	Klem	Schelle
	10*	92037464	1	Valve, drain			
	11	92354653	2	Plug	Bouchon	Plug	Stopfen
	12	92175405	1	Probe			
	13	92894096	1	Guard	Protection	Beschermkap	Schutzblech
	14	92691674	1	Cap			
	15	92951466	4	Magnetic catch			

Revision 00
10/92

10.7.1 COOLING SYSTEM

10.8.0 INSTRUMENTATION

XHP660 CA
XHP760 CA

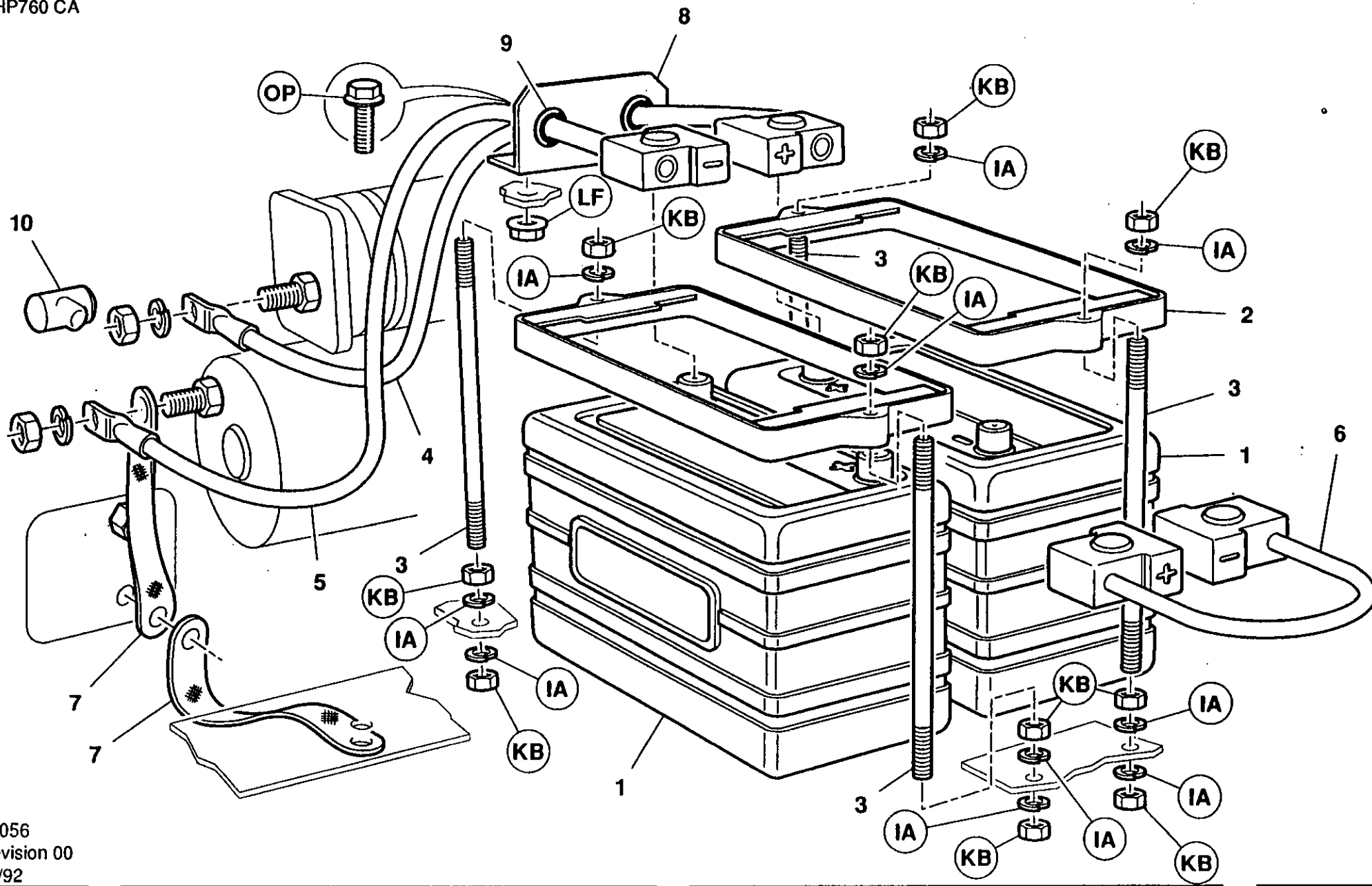


	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA	1	92956937	1	Gauge, RPM			
	2	92894492	1	Gauge, pressure	Manomètre	Drukmeter	Manometer
	3	92951276	1	Gauge, water temperature			
	4	92951284	1	Gauge, temperature	Affichage température	Temperatuurmeter	Temperaturanzeige
	5	92057967	1	Gauge, fuel			
	6	92960673	2	Gauge, vacuum			
	7	92951268	1	Gauge, oil pressure			
	8	92062116	1	Gauge Voltmeter			
	9	92867209	1	Hourmeter	Compteur horaire	Urenteller	Betriebsstunden-Zähler
	10	92956846	2	Hose assembly	Flexible	Slang	Schlauchsystem
	11	92111335	1	Tube			
	12	92955376	1	Indicator (Amber)			
	13	92955384	1	Indicator (Red)			
	14	92455351	2	Bulb, light			
	15	92294297	1	Circuit breaker			
	16	35255553	1	Button, Start/Run			
	17	92086719	1	Button, Start			
	18	92951706	1	Fascia			
	19	92956606	1	Hose assembly	Flexible	Slang	Schlauchsystem

10.8.1 INSTRUMENTATION

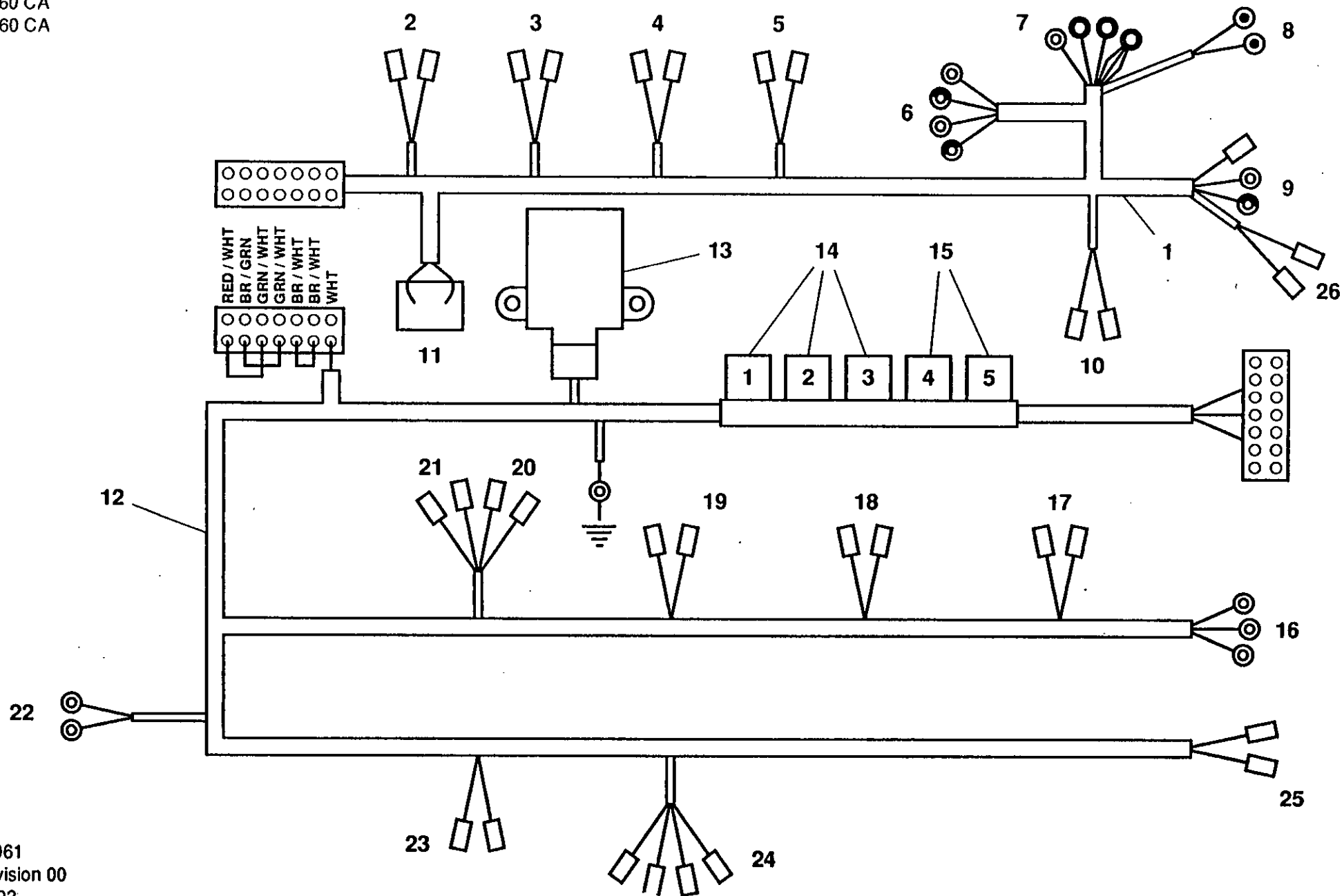
10.9.0 CONTROL AND MONITORING SYSTEM

XHP660 CA
XHP760 CA



10.10.0 WIRING HARNESS

XHP660 CA
XHP760 CA



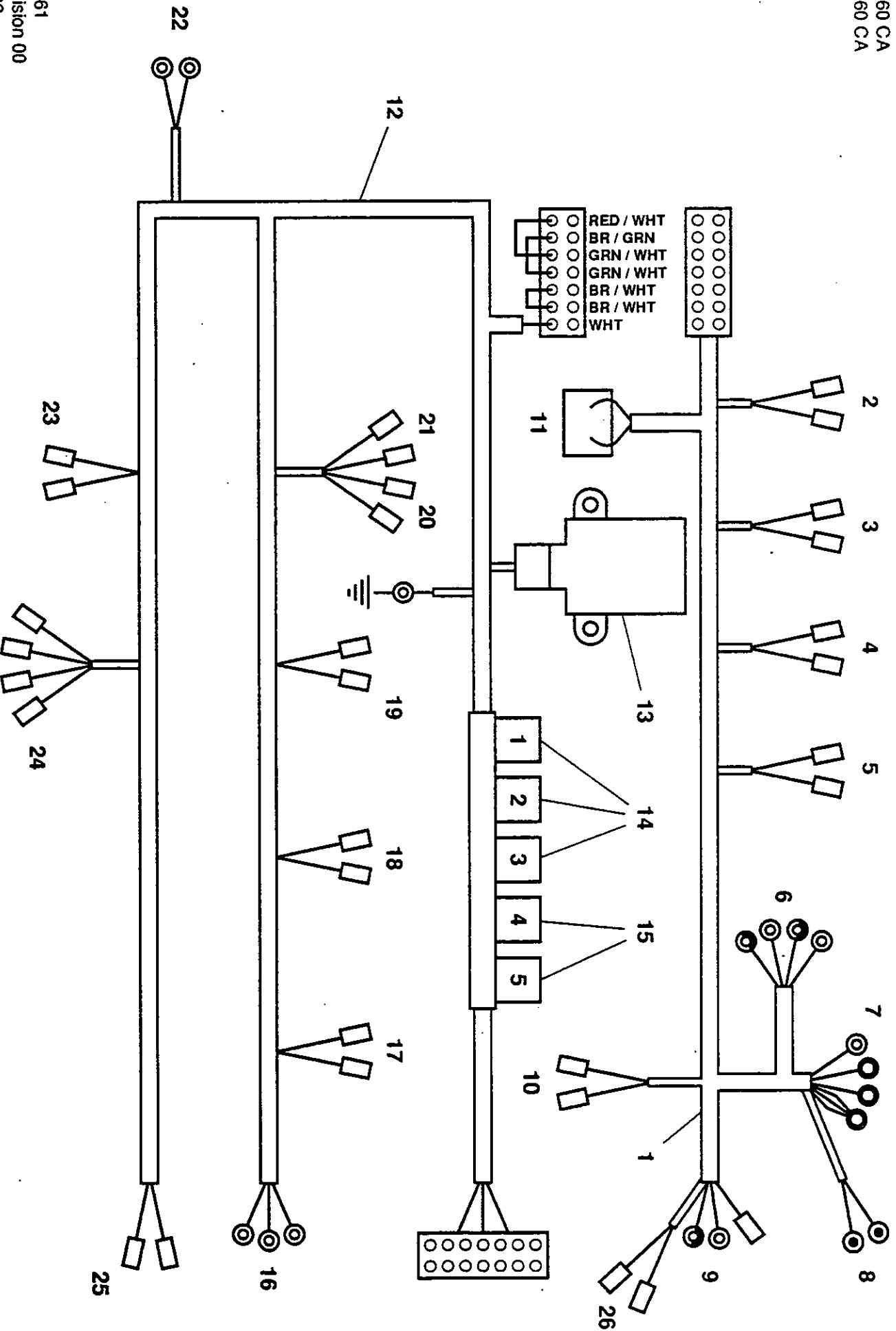
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA						
XHP 760 CA						
1	92951680	1	Harness Main			
2	36764777	1	Fuse, Discharge pipe	Fusible	Zekering	Sicherung
3	367 ⁶ 4769	1	Fuse, Tank	Fusible	Zekering	Sicherung
4	92175405	1	Relay, Radolarm	Relais	Relais	Relais
5	92955269	1	Cold start			
6	35577873	1	Relay, starter	Relais	Relais	Relais
7	*****	1	Starter			
8	*****	1	Stop solenoid			
9	*****	1	Alternator			
10	92062124	1	Fuel sender			
11	92956135	1	Solenoid Start/Run			
12	92956820	1	Harness Panel			
13	92499888	1	Radolarm			
14	92064567	3	Relay 24V	Relais	Relais	Relais
15	92076173	2	Relay 12V	Relais	Relais	Relais

Revision 00
10/92

10.10.1 WIRING HARNESS

10.10.2 WIRING HARNESS

XHP660 CA
XHP760 CA



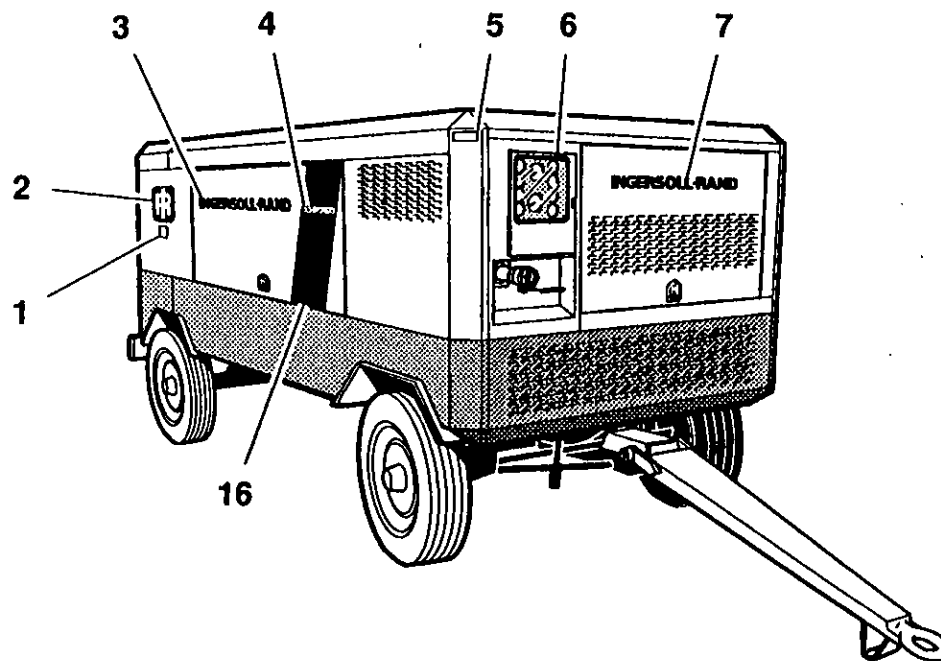
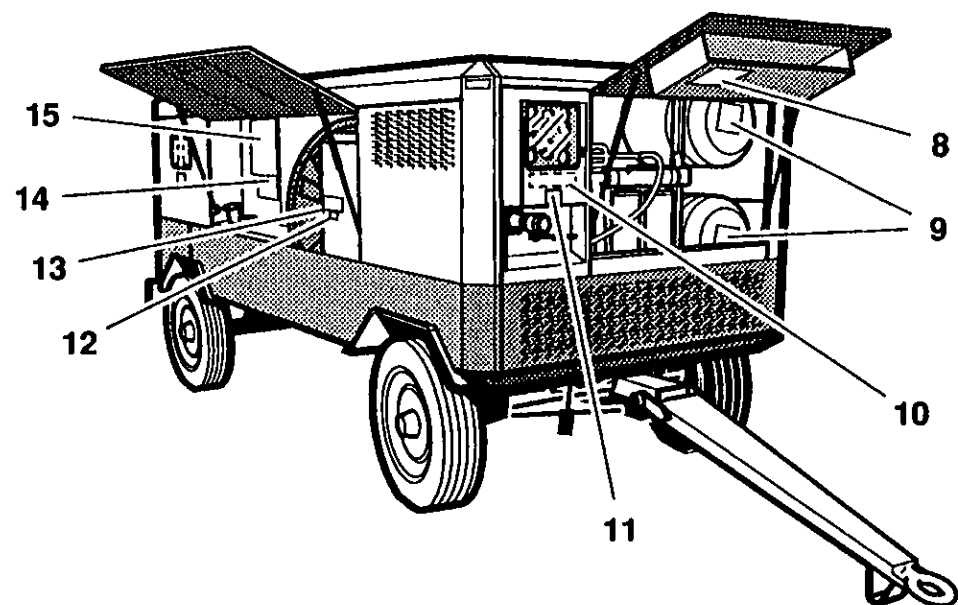
	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA	16	92956935	1	Tachometer			
	17	92867209	1	Hourmeter	Compteur horaire	Urenteller	Betriebsstunden-Zähler
	18	92062116	1	Voltmeter			
	19	92057967	1	Gauge, fuel			
	20	92955376	1.	Indicator, Low water			
	21	92955384	1	Indicator, No charge			
	22	92294297	1	Button Re-set			
	23	35255553	1	Button Start/run			
	24	92086719	1	Start switch			
	25	35255553	1	Cold start switch			
	26	92960970	1	Fuel level switch			

Revision 00
10/92

10.10.3 WIRING HARNESS

10.11.0 DECALS

XHP660 CA
XHP760 CA



	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA							
XHP 760 CA	1	92814284	1	Decal Sound level	Décalque	Tekststicker	Dekor
	2	92918937	1	Decal IR Logo	Décalque	Tekststicker	Dekor
	3	92512581	1	Decal Logotype	Décalque	Tekststicker	Dekor
	4	92956697	1	Decal Model	Décalque	Tekststicker	Dekor
	5	92524313	1	Data plate			
	6	92893171	1	Decal Instrument panel	Décalque	Tekststicker	Dekor
	7	92512573	1	Decal IR logotype	Décalque	Tekststicker	Dekor
	8	92912146	1	Decal Wiring diagram	Décalque	Tekststicker	Dekor
	9	92519164	1	Decal Air filters	Décalque	Tekststicker	Dekor
	10		1	Decal Instrument panel	Décalque	Tekststicker	Dekor
	11	92524248	1	Decal Air discharge	Décalque	Tekststicker	Dekor
	12	92524271	1	Decal Filler plug	Décalque	Tekststicker	Dekor
	13	92050327	1	Decal Engine oil	Décalque	Tekststicker	Dekor
	14	92912138	1	Decal Maintenance	Décalque	Tekststicker	Dekor
	15	92956689	1	Decal General data	Décalque	Tekststicker	Dekor
	16	92919471	1	Decal, Stripe RH	Décalque	Tekststicker	Dekor
	17	92919463	1	Decal, Stripe LH	Décalque	Tekststicker	Dekor

Revision 00
10/92

10.11.1 DECALS

11.0**RECOMMENDED
PARTS****PIÈCES
RECOMMANDES****AANBEVOLEN
ONDERDELEN****EMPFOHLENE
ERSATZTEILE**

CPN

Qty

DESCRIPTION

DESCRIPTION

BESCHRIJVING

BESCHREIBUNG

XHP 660 CA XHP 760 CA	92945286	1	KIT – SERVICE			
	92529973	1	Cap, fuel filler			
	92549278	1	Silencer		Demper	
	35596436	1	Switch, temperature			
	92522135	1	Element, separator	Elément séparateur	Afscheide	Abscheider-Element
	92789510	1	Sight-glass	Niveau d'huile	Peilglas	Transparantes schlauchstück
	92789312	1	Valve, safety	Soupape de sécurité	Veiligheidsklep	Sicherheitsventil
	92268051	1	Indicator, air restriction			
	92294461	1	Valve, hand			
	35355106	1	Regulator		Regulateur	
	92923788	1	Valve, check	Vanne	Terugslagklep	Rückschlagventil
	92306901	1	Hourmeter	Compteur horaire	Urenteller	Betriebsstunden-Zähler
	92790187	1	Gauge, pressure	Manomètre	Drukmeter	Manometer
	92086719	1	Key-switch			
	92790153	1	Indicator, no charge			
	92076173	1	Relay, changeover			
	92930379	1	Relay, mini			
	92775691	1	Indicator			
	92705748	1	Orifice, sonic			
	35296920	1	Element, oil filter (Alrend)			
	92950732	1	Element, oil filter (Engine)			
	92950740	1	Element, air filter			

CPN	Qty.	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA	92950757	1	Element, fuel filter		
	92945278	1	KIT -- Gasket/O' ring		

CPN	Qty.	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
	92945278	1	KIT -- 'O' RING		
	92808138	1	Gasket, fuel filler cap		
	92906049	1	Gasket, exhaust manifold		
	95060745	1	'O' Ring, rear bearing housing		
	95045092	1	'O' Ring, rear bearing housing		
	39404165	1	'O' Ring, temperature switch		
	95023115	1	'O' Ring, rear bearing cover		
	95852281	1	'O' Ring, rear bearing cover		
	95641734	1	'O' Ring, cover/gearcase		
	95022331	1	'O' Ring, driveshaft seal cover		
	35375369	1	Lipseal, driveshaft		
	95023107	1	'O' Ring, unloader		
	92293661	1	Seal		

Revision 00
10/92

11.1	RECOMMENDED PARTS	PIÈCES RECOMMANDES	AANBEVOLEN ONDERDELEN	EMPFOHLENE ERSATZTEILE
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12.0

INDEX - FASTENERS

CODE VISSERIE

BEVESTIGINGS- MATERIALEN

VERBINDUNGS- ELEMENTE

CODE	CPN	PAGE #	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA	CA	9579232110.1.0	Bolt 3/8" x 2"		Bout	
	CY	9231170310.1.0/10.1.2/10.1.4	Bolt M16 x 100		Boul	
	ED	3529935310.3.0	Capscrew Skt. Hd. M10 x 60			
	EM	9242140310.3.0	Capscrew Skt. Hd. M8 x 20			
	GQ	9231169510.1.2/10.1.4	Locknut M16	Ecrou	Borgmoer	
	GR	9230457510.3.0	Locknut M12	Ecrou	Borgmoer	
	HI	9206133210.1.0/10.2.4	Lockwasher M10			
	HL	9230467410.1.0	Lockwasher M10			
	HN	9206147210.2.4	Lockwasher M10			
	HS	9235937110.5.0	Lockwasher M10			
	HV	9239137410.1.2/10.1.4/10.2.4	Lockwasher M20			
	IA	9230465810.9.0	Lockwasher M6			
	ID	9230466610.3.0	Lockwasher M8			
	II	9230467410.7.0	Lockwasher M10			
	KB	9230450010.9.0	Nut M6	Ecrou	Moer	Mutter
	KU	9231169510.1.0	Nut self locking M16	Ecrou	Moer	Mutter
	KW	9230454210.2.0	Nut self locking M6	Ecrou	Moer	Mutter
	LD	9247359410.3.0	Nut Whiztite M10	Ecrou	Moer	Mutter
	LE	9239864310.3.0	Nut Whiztite M12	Ecrou	Moer	Mutter
	LF	9239810610.2.0/10.9.0	Nut Whiztite M6	Ecrou	Moer	Mutter
	LG	9239811410.2.4/10.3.0/10.3.2 10.7.0	Nut Whiztite M8	Ecrou	Moer	Mutter
	LK	9270059010.1.0/10.2.4	Nut self locking M20	Ecrou	Moer	Mutter
	OA	9236868710.1.0/10.2.4/10.3.2	Screw Taptite M6 x 12	Vis	Schroef	Schraube
	OO	9239812210.2.0	Screw Whizlock M6 x 20	Vis	Schroef	Schraube
	OP	9217904310.9.0	Screw Whizlock M6 x 25	Vis	Schroef	Schraube

	CODE	CPN	PAGE #	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA							
XHP 760 CA	OQ	9239813010.2.4/10.3.2		Screw Whizlock M8 x 20	Vis	Schroef	Schraube
	OR	9210111210.3.2/10.7.0		Screw Whizlock M8 x 25	Vis	Schroef	Schraube
	OT	9272299010.2.0		Screw Panhead M6 x 12	Vis	Schroef	Schraube
	PC	5076332510.1.0		Bolt M20 x 70		Bout	
	QZ	9230440110.1.0		Setscrew M10 x 25	Vis	Intelschroef	Sartschrause
	RA	9228098110.2.4		Setscrew M10 x 30	Vis	Intelschroef	Sartschrause
	RB	9230441910.7.0		Setscrew M10 x 40	Vis	Intelschroef	Sartschrause
	RF	9210318510.3.2		Setscrew M12 x 30	Vis	Intelschroef	Sartschrause
	RK	3527897710.2.4		Setscrew M10 x 75	Vis	Intelschroef	Sartschrause
	RQ	9209575110.5.0		Setscrew M16 x 25	Vis	Intelschroef	Sartschrause
	RY	3527255810.2.4		Setscrew M20 x 45	Vis	Intelschroef	Sartschrause
	SJ	9233968810.2.0		Setscrew M6 x 35	Vis	Intelschroef	Sartschrause
	TQ	9276437210.1.10		Screw M20 x 80	Vis	Schroef	Schraube
	UJ	4003426610.1.2/10.1.4		Screw M20 x 50	Vis	Schroef	Schraube
	UK	9239135810.1.10		Screw M20 x 90	Vis	Schroef	Schraube
	VP	9206149810.2.4		Washer M10	Rondelle	Ring mo	Unterlegscheibe
	VQ	9230461710.7.0		Washer M10	Rondelle	Ring mo	Unterlegscheibe
	VT	9206150610.2.4		Washer M12	Rondelle	Ring mo	Unterlegscheibe
	VZ	9235936310.1.0/10.1.2/10.1.4 10.5.0		Washer M16	Rondelle	Ring mo	Unterlegscheibe
	WB	9239138210.1.0/10.1.2/10.1.4 10.2.4		Washer M20	Rondelle	Ring mo	Unterlegscheibe
	WE	3914500810.2.0		Washer M6	Rondelle	Ring mo	Unterlegscheibe
	WG	9234198110.2.0		Washer M6	Rondelle	Ring mo	Unterlegscheibe
	WI	9230460910.3.0		Washer M8	Rondelle	Ring mo	Unterlegscheibe

Revision 00
10/92

12.1

INDEX – FASTENERS

CODE VISSERIE

BEVESTIGINGS- MATERIALEN

VERBINDUNGS- ELEMENTE

13.0

TUBE FITTINGS INDEX

CODE RACCORDS

	CODE	CPN	PAGE	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA	AB	3528307610.5.0/10.6.0/10.6.2		Adaptor	Adapteur	Adapter	Anschlußnippel
	AE	9531011610.4.0		Adaptor	Adapteur	Adapter	Anschlußnippel
	AG	9287783610.4.0		Adaptor	Adapteur	Adapter	Anschlußnippel
	AQ	9217378010.6.0/10.6.2		Adaptor	Adapteur	Adapter	Anschlußnippel
	AW	9528816610.5.0		Adaptor	Adapteur	Adapter	Anschlußnippel
	BA	9208784010.4.0		Adaptor	Adapteur	Adapter	Anschlußnippel
	BI	9210621010.6.0/10.6.2		Adaptor	Adapteur	Adapter	Anschlußnippel
	DI	9200570110.6.0/10.6.2		Connector	Connecteur	Koppelstuk	Doppelnippel
	DM	9239554010.6.0/10.6.2		Connector	Connecteur	Koppelstuk	Doppelnippel
	DT	9247826210.5.0		Connector	Connecteur	Koppelstuk	Doppelnippel
	EC	9212322310.4.0		Connector	Connecteur	Koppelstuk	Doppelnippel
	ED	9239546610.6.0/10.6.2		Connector	Connecteur	Koppelstuk	Doppelnippel
	EE	9211846210.6.0/10.6.2		Connector	Connecteur	Koppelstuk	Doppelnippel
	EF	9249280010.6.0/10.6.2		Connector	Connecteur	Koppelstuk	Doppelnippel
	GM	9208783210.4.0		Elbow	Coude	Bochtstuk	Krümmer
	GX	9239545810.5.0		Elbow	Coude	Bochtstuk	Krümmer
	HB	9212320710.6.0		Elbow	Coude	Bochtstuk	Krümmer

	CODE	CPN	PAGE	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA	HU	9244129410.6.0/10.6.2		Elbow	Coude	Bochtstuk	Krümmen
	HV	9247720710.5.0		Elbow	Coude	Bochtstuk	Krümmen
	HW	3530122510.8.0		Elbow	Coude	Bochtstuk	Krümmen
	HX	9291897810.4.0		Elbow	Coude	Bochtstuk	Krümmen
	HY	3529475010.4.0		Elbow	Coude	Bochtstuk	Krümmen
	HZ	9271603410.4.0		Elbow	Coude	Bochtstuk	Krümmen
	IB	9541422310.4.0		Elbow	Coude	Bochtstuk	Krümmen
	IC	9287628310.6.0		Elbow	Coude	Bochtstuk	Krümmen
	JL	9279185410.4.0		Tee	Te	T-stuk	T-Stück
	JM	9295670510.6.0/10.6.2		Tee	Te	T-stuk	T-Stück
	PC	9289985510.6.0/10.6.2		Adaptor	Adapteur	Adapter	Anschlußnippel
	PD	9295525110.8.0		Connector	Connecteur	Koppelstuk	Doppelnippel
	SE	9296206710.8.0		Fitting, barbed			
	SF	9295655610.8.0		Fitting, barbed			
	TI	9248112610.5.0		Bush	Palier	Bus	Hülse
	XA	9225593410.6.0/10.6.2		Nipple		Nippel	
	XB	9235461210.6.0/10.6.2		Nipple		Nippel	

Revision 00
10/92

14.0

PARTS INDEX

INDEX DES Nos DE ONDERDELENINDEX
PIÈCESAUFLISTUNG DER
TEILE

XHP 660 CA	CPN	Page	CPN	Page	CPN	Page	CPN	Page	CPN	Page	CPN	Page
XHP 760 CA	35082114,	10.1.11	35355833,	10.1.13	35737161,	10.1.5	92042860,	10.0.5	92096247,	10.0.1	92302587,	10.0.5
	35088954,	10.1.7	35355841,	10.1.13	35856350,	10.1.9	92042878,	10.0.5	92104264,	10.2.3	92302595,	10.0.5
	35104082,	10.1.3	35355858,	10.1.13	35856418,	10.1.13	92042894,	10.0.3	92111335,	10.3.1, 10.8.1	92302637,	10.0.3
	35251800,	10.2.3	35355866,	10.1.7	35856467,	10.1.3	92042902,	10.0.3	92120013,	10.5.1	92302678,	10.0.1
	35255553,	10.8.1, 10.10.3	35355874,	10.1.9	35864644,	10.1.9	92043017,	10.6.1	92175405,	10.7.1, 10.10.1	92302686,	10.0.1
	35264415,	10.3.1	35355916,	10.1.9	36500734,	10.1.9	92043058,	10.5.1	92254887,	10.9.1	92302736,	10.0.3
	35271139,	10.1.5	35355924,	10.1.9	36501013,	10.1.13	92050327,	10.11.1	92268051,	11.0	92302744,	10.0.3
	35271147,	10.1.13	35355940,	10.1.9	36504116,	10.1.3	92052380,	10.9.1	92271139,	10.9.1	92302793,	10.0.7
	35271154,	10.1.13	35355957,	10.1.9	36738128,	10.1.7	92055300,	10.3.1	92271550,	10.0.5	92302850,	10.0.7
	35271188,	10.1.9	35355965,	10.1.7	36738797,	10.1.11	92056852,	10.0.9	92274828,	10.0.3	92302868,	10.0.7
	35272533,	10.1.5, 10.1.9	35355973,	10.1.7	36744769,	10.10.1	92057967,	10.8.1, 10.10.3	92275239,	10.3.1	92302884,	10.0.9
	35272541,	10.1.5	35355999,	10.1.7	36746410,	10.1.3, 10.1.7,	92058940,	10.0.9	92280965,	10.0.9	92302892,	10.0.9
	35273408,	10.1.7	35356039,	10.1.11		10.1.13	92058957,	10.0.9	92289586,	10.0.7	92302918,	10.0.9
	35273937,	10.1.1, 10.1.5	35361286,	10.1.3	36750909,	10.1.3	92058965,	10.0.9	92293661,	10.4.3, 11.1	92302959,	10.0.5
	35285626,	10.1.11	35364975,	10.1.5	36763183,	10.1.3, 10.1.7,	92061811,	10.2.3	92293901,	10.9.1	92302975,	10.0.1
	35288117,	10.4.1	35366657,	10.1.9		10.1.13	92062116,	10.8.1, 10.10.3	92294297,	10.8.1, 10.10.3	92303825,	10.9.1
	35295344,	10.1.11	35369438,	10.1.9	36764777,	10.10.1	92062124,	10.5.1, 10.10.1	92294461,	10.6.1, 11.0	92304385,	10.0.11
	35296920,	11.0	35371996,	10.1.5	39101449,	10.1.5	92062157,	10.1.1, 10.1.5	92299916,	10.0.1	92304393,	10.1.13
	35300185,	10.1.13	35372002,	10.1.3	39125000,	10.1.9	92064567,	10.10.1	92299924,	10.0.1	92304435,	10.1.3
	35300193,	10.1.7, 10.1.11	35372010,	10.1.3	39404165,	11.1	92069038,	10.6.1	92299932,	10.0.1	92304674,	10.0.11
	35300201,	10.1.7	35372028,	10.1.3	90103185,	10.0.9	92070903,	10.0.1	92299940,	10.0.1	92304682,	10.0.9
	35311463,	10.1.7, 10.1.9,	35375369,	11.1	90103854,	10.0.9	92076173,	10.10.1, 11.0	92299973,	10.0.1	92306901,	11.0
		10.1.11, 10.1.13	35577873,	10.1.1, 10.10.1	92035948,	10.3.1	92085995,	10.3.1	92299981,	10.0.1	92308618,	10.0.11
	35318146,	10.1.3	35578194,	10.9.1	92035955,	10.3.1	92086719,	10.8.1, 10.10.3,	92299999,	10.0.1, 10.0.7	92308626,	10.0.11
	35336122,	10.1.5, 10.1.7,	35579630,	10.4.3	92035963,	10.3.1		11.0	92301993,	10.0.3	92308634,	10.0.11
		10.1.11	35584036,	10.2.3	92037464,	10.5.1, 10.7.1	92091842,	10.0.7	92302009,	10.0.3	92309079,	10.0.11
	35336130,	10.1.7, 10.1.11	35593516,	10.1.3	92039064,	10.9.1	92091867,	10.0.7	92302058,	10.0.1, 10.0.3	92309095,	10.0.11
	35337583,	10.1.5	35596436,	11.0	92042233,	10.7.1	92094580,	10.6.1	92302116,	10.0.3	92309103,	10.0.11
	35351883,	10.1.11	35600014,	10.1.7	92042688,	10.0.1	92094994,	10.4.3	92302355,	10.0.7	92309137,	10.0.11
	35355106,	11.0	35600022,	10.1.7, 10.1.11	92042738,	10.0.1	92095363,	10.4.3	92302405,	10.0.7	92309145,	10.0.11
	35355502,	10.1.11	35600030,	10.1.11	92042746,	10.0.1	92095371,	10.4.3	92302413,	10.0.7	92309152,	10.0.11
	35355767,	10.1.13	35600105,	10.1.13	92042753,	10.0.1	92095389,	10.4.3	92302439,	10.0.9	92309160,	10.0.11
	35355775,	10.1.5	35600113,	10.1.9	92042761,	10.0.1	92095397,	10.4.3	92302447,	10.0.7	92309178,	10.0.11
	35355783,	10.1.11	35602457,	10.1.13	92042779,	10.0.1	92095405,	10.4.3	92302462,	10.0.9	92309186,	10.0.11
	35355791,	10.1.7	35605203,	10.1.13	92042787,	10.0.1	92095413,	10.4.3	92302546,	10.0.5	92309202,	10.0.11
	35355809,	10.1.3	35610153,	10.1.5	92042837,	10.0.3	92095421,	10.4.3	92302553,	10.0.5	92327212,	10.0.3
	35355817,	10.1.7, 10.1.11	35610195,	10.1.3	92042845,	10.0.3	92095439,	10.4.3	92302561,	10.0.5	92327519,	10.0.9
	35355825,	10.1.13	35610203,	10.1.3	92042852,	10.0.3	92095447,	10.4.3	92302579,	10.0.5	92327618,	10.0.5

CPN	Page	CPN	Page	CPN	Page	CPN	Page	CPN	Page	CPN	Page	CPN	Page	CPN	Page	CPN	Page
92775691, 11.0		92893171, 10.11.1		92898923, 10.2.3		92912401, 10.6.3		92930742, 10.2.1		92955384, 10.8.1, 10.10.3		92960418, 10.0.7					
92778349, 10.0.5		92893189, 10.3.3		92898931, 10.2.3		92912419, 10.2.3		92945278, 11.1		92956093, 10.6.3		92960426, 10.0.7					
92789312, 11.0		92893197, 10.1.11		92898949, 10.2.1		92912427, 10.2.3		92945286, 11.0		92956135, 10.6.3, 10.10.1		92960434, 10.0.7					
92789510, 11.0		92893205, 10.3.3		92898956, 10.2.5		92912954, 10.2.5		92950260, 10.2.3		92956499, 10.6.3		92960442, 10.1.1					
92790153, 11.0		92893254, 10.1.1		92898964, 10.2.5		92918937, 10.11.1		92950278, 10.2.3		92956515, 10.6.1		92960673, 10.8.1					
92790187, 11.0		92893965, 10.2.1		92898972, 10.2.5		92918945, 10.4.1		92950351, 10.0.3		92956598, 10.4.1		92960970, 10.5.1, 10.10.3					
92795400, 10.0.9		92893973, 10.2.1		92898980, 10.2.5		92919463, 10.11.1		92950708, 10.2.3		92956606, 10.8.1		92961614, 10.5.1					
92803998, 10.1.1		92893981, 10.2.1		92898998, 10.2.5		92919471, 10.11.1		92950716, 10.2.3		92956614, 10.6.1		92961895, 10.0.7					
92808138, 11.1		92893999, 10.2.1		92899012, 10.2.5		92919497, 10.1.1		92950732, 11.0		92956622, 10.6.3		95000410, 10.1.9					
92812932, 10.6.3		92894005, 10.2.1		92899020, 10.2.5		92920313, 10.3.1		92950740, 11.0		92956630, 10.6.1		95022331, 11.1					
92814045, 10.3.3		92894047, 10.4.3		92899038, 10.7.1		92920321, 10.3.1		92950757, 11.1		92956648, 10.6.1		95022372, 10.1.3					
92814052, 10.3.3		92894088, 10.2.5		92899046, 10.7.1		92920701, 10.3.3		92951029, 10.2.5		92956655, 10.6.3		95023107, 11.1					
92814284, 10.11.1		92894096, 10.7.1		92899350, 10.4.1		92921168, 10.2.3		92951045, 10.3.1		92956663, 10.6.3		95023115, 11.1					
92816859, 10.2.3		92894104, 10.3.3		92899368, 10.4.1		92921176, 10.2.3		92951060, 10.3.1		92956671, 10.6.3		95026290, 10.1.9					
92865518, 10.1.1		92894443, 10.2.1		92899384, 10.2.5		92922855, 10.2.3		92951268, 10.8.1		92956689, 10.11.1		95045092, 11.1					
92865666, 10.1.1		92894492, 10.8.1		92899863, 10.1.1		92922863, 10.2.3		92951276, 10.8.1		92956697, 10.11.1		95060745, 11.1					
92865815, 10.4.3		92894542, 10.2.3		92899889, 10.2.5		92923721, 10.2.1		92951284, 10.8.1		92956820, 10.3.3, 10.10.1		95069522, 10.1.9					
92867209, 10.8.1, 10.10.3		92894880, 10.6.1		92905900, 10.7.1		92923739, 10.2.1		92951466, 10.7.1		92956846, 10.8.1		95077764, 10.0.3					
92868850, 10.2.5		92894930, 10.5.1		92905918, 10.7.1		92923747, 10.2.1		92951565, 10.3.1		92956937, 10.8.1, 10.10.3		95077798, 10.0.3					
92868602, 10.7.1		92894948, 10.5.1		92906049, 11.1		92923754, 10.2.1		92951680, 10.10.1		92956945, 10.6.1		95214524, 10.1.11					
92886100, 10.7.1		92894989, 10.5.1		92911783, 10.7.1		92923762, 10.2.1		92951706, 10.8.1		92956952, 10.6.1		95223178, 10.1.11					
92886399, 10.1.1		92895168, 10.4.1		92911932, 10.5.1		92923788, 11.0		92951953, 10.4.1		92957028, 10.6.3		95281336, 10.3.1					
92891563, 10.5.1		92895267, 10.4.1		92911940, 10.5.1		92923853, 10.2.1		92951966, 10.4.1		92957702, 10.1.1		95293743, 10.0.5					
92891571, 10.5.1		92895473, 10.3.1		92911957, 10.5.1		92923911, 10.2.1		92952050, 10.3.1		92960343, 10.0.3		95325239, 10.0.3					
92892934, 10.4.1		92896174, 10.4.1		92912062, 10.2.5		92924133, 10.2.1		92955244, 10.4.1		92960350, 10.0.3		95329843, 10.0.3					
92892942, 10.4.1		92898667, 10.6.3		92912088, 10.9.1		92930338, 10.2.1		92955269, 10.1.1, 10.10.1		92960368, 10.0.3		95391348, 10.0.5					
92892959, 10.6.1		92898709, 10.6.3		92912096, 10.9.1		92930346, 10.2.1		92955277, 10.1.1		92960376, 10.0.5		95641734, 11.1					
92893080, 10.6.3		92898865, 10.2.1		92912138, 10.11.1		92930353, 10.2.1		92955285, 10.1.1		92960384, 10.0.5		95644324, 10.0.5					
92893106, 10.2.5		92898881, 10.2.1		92912146, 10.11.1		92930361, 10.2.1		92955293, 10.1.1		92960392, 10.0.7		95852281, 11.1					
92893114, 10.1.5		92898999, 10.2.1		92912393, 10.2.5		92930379, 11.0		92955376, 10.8.1, 10.10.3		92960400, 10.0.7							

REC 19.11.92

Prod 18/11/92

INGERSOLL-RAND

XHP660 XHP760 PORTABLE COMPRESSOR

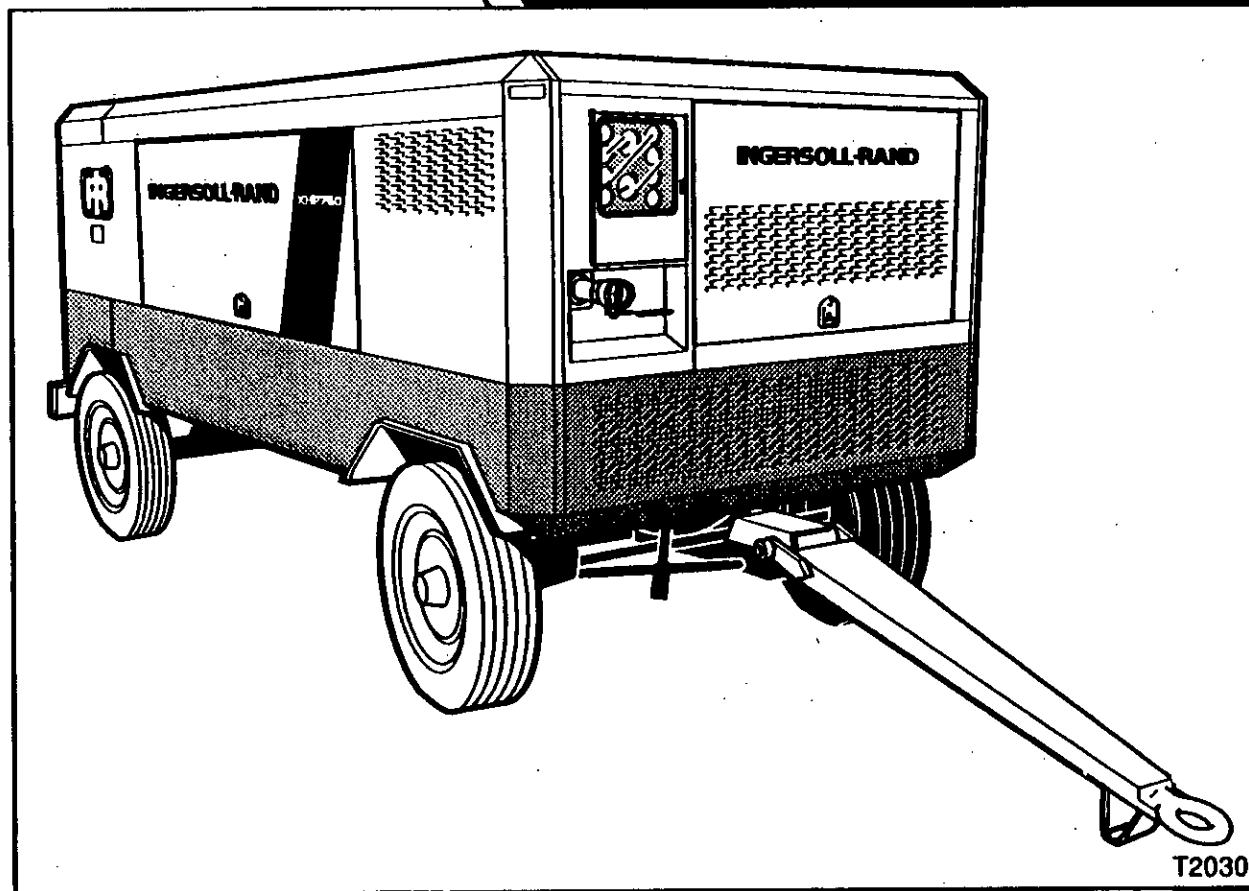
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onderdelenkatalogus

FAHRBARER KOMPRESSOR CATERPILLARMOTOR
BEDIENUNGS-UND WARTUNGSANLEITUNG
mit ersatzteilliste



C.P.N. : 92956382
ISSUE : 1
DATE : October 1992

SERIAL NUMBER RANGE

860010

TO

860019



Do not remove the operating and maintenance manual and manual holder from this machine.

Fjern ikke vejlednings- og vedligeholdelsesmanualen eller dens holder fra denne maskine.

Bedienings- en onderhoudsvorschrift en houder niet verwijderen van de machine.

Ne pas enlever le manuel d'opération et d'entretien ni son support, de la machine.

Betriebs- und Wartungsvorschriften-Handbuch und Handbuch Halterung nicht von dieser Maschine wegnehmen.

Μην αποσπείτε το εγχειρίδιο λειτουργίας και συντήρησης και το στήριγμα του εγχειριδίου από τη μηχανή.

Non togliere da la macchina istruzioni di funzionamento e manutenzione ed il porta-manuale da questa macchina.

Não remove as instruções de operação e manutenção nem o porta-manual desta máquina.

No quitar de la máquina ni el manual de instrucciones ni su soporte.

Handböcker för drift och underhåll av denna maskin får ej avlägnas. Förvaringsstäck skall finnas på maskinen.



Read the instruction book before the operation or maintenance of this machine is undertaken.

Læs instruktionsbogen, før du tager denne maskine i brug eller foretager vedligeholdelse.

Bedieningsvoorschrift lezen voor ingebruikname of voor het verrichten van service-werkzaamheden.

Lire le manuel d'instruction avant la mise en route ou toute opération d'entretien sur la machine.

Lesen Sie das Bedienungs-Handbuch vor Inbetriebnahme oder Wartung dieser Maschine.

Διαβάστε το εγχειρίδιο χρήσης πριν να αναλάβετε τη λειτουργία ή τη συντήρηση του εξοπλισμού.

Leggere il manuale di istruzioni prima della messa in funzione della macchina e prima di effettuare lavori di manutenzione.

Leia o manual de instrução antes de colocar em operação ou iniciar a manutenção desta máquina.

Lee el manual de instrucciones antes de poner en marcha o antes de la inspección de esta máquina.

Läs instruktionsboken innan maskinen tas i drift eller servicearbete påbörjas.



Emergency stop.

Noodstop.

Arrêt d'urgence.

Not Aus.

Επείγουσα ενόχληση ανώμαλης.

Arresto di emergenza.

Parada de emergencia.

Parada de emergencia.

Nodstop.



Warning - Electrical shock risk.

Advarsel - Risiko for elektrisk stød.

Waarschuwing - Kans op elektrische schokken.

Attention - risque de décharge électrique.

Achtung - Stromschlaggefahr.

Προσοχή - Κίνδυνος ηλεκτροπληξίας.

Attenzione - Pericolo di scarica elettrica.

Atenção - Risco de choque elétrico.

Atención - Peligro de electrocución.

Varning - Livsfarlig anslutning - Vidrör ej apparater och ledningar.

Cuidado. Riesgo de descarga eléctrica.



Do not breathe the compressed air from this unit.

Trykluften fra dette anlæg må ikke indåndes.

Perslucht van deze installatie niet inademen.

Ne pas respirer l'air comprimé de cette installation.

Keine Druckluft von dieser Anlage einatmen.

Μην αναπνεύσετε τον συμπιεσμένο αέρα από αυτή τη μονάδα.

Non respirare l'aria prodotta da questo gruppo.

Não aspire o ar comprimido desta unidade.

No hacer escapar aire comprimido de la instalación.

Tryckluften från denna kompressor är ej avsedd som andningsluft.

No respirar el aire producido por esta unidad.



Warning - Hot Surface.

Advarsel - Varm overflade.

Waarschuwing - warme oppervlak.

Attention - surface chaude.

Achtung - Heiße Oberfläche.

Προσοχή - Κοιμή επιφάνεια.

Attenzione - Superficie calda.

Cuidado Superficie aquecida.

Atención: Superficie ardiente.

Varning - Het yta.

Atención. Superficie caliente.



Do not stand on any service valve or other parts of the pressure system.

Niet staan op service-ventielen en andere onderdelen van het druksysteem.

Ne pas marcher sur les vannes ou sur d'autres pièces du circuit.

Nicht auf Wartungsventile oder andere/n Drucksystemstellen stellen/stehen.

Μην στέκεστε σε κλείσιμο διατάξεις υπέρπυσης ή άλλα μέρη του συστήματος υπό πίεση.

Non sostare in prossimità di valvole di servizio o di altre parti del sistema sotto pressione.

Não se apoiar nas válvulas de serviço ou em outras partes do sistema de pressão.

No poner nada sobre válvulas y sistema de presión.

Stå inte på ventiler eller någon del av trycksystemet.



Corrosion Risk

Κίνδυνος διάβρωσης.



Warning - Pressurized vessel.

Advarsel - Beholder under tryk.

Waarschuwing - Kessel onder druk.

Attention - réservoir sous pression.

Achtung - Behälter unter Druck.

Προσοχή - Πιεστικό δοχείο.

Attenzione - Recipiente in pressione.

Cuidado - Tanque presurizado.

Atención: Depósito bajo presión.

Varning - Tryckkärl kliri.

Atención. Recipiente presurizado.



Warning - pressurized component or system.

Advarsel - komponenter eller system er under tryk.

Waarschuwing - installatie staat onder druk.

Danger - Composant ou circuit sous pression.

Warnung: Behälter steht unter Druck.

Προσοχή - Πιεστικό συστατικό ή σύστημα.

Attenzione - Componente o impianto in pressione.

Cuidado - Componente ou sistema pressurizado.

Anso: componente o sistema de aire comprimido.

Varning - tryckslätt komponent eller system.



Warning

Advarsel!

Waarschuwing

Danger

Warnung:

Προσοχή

Attenzione

Cuidado

Anso:

Varning

- Air/gas flow or
- Air discharge
- Luft/gas strøm eller
- luft släp
- lucht/gas leiding of
- perslucht uitrede
- Circuit de gaz
- Echappement d'air sous press
- Luft-/Gasfluß oder
- Luftaustritt
- Ροή αέρα/αερίου ή
- Αερίσκη από
- Flujo de aire/gas
- Scaico d'aria
- Flujo de ar/gas
- Descarga de ar
- flujo del aire/gas o
- escape del aire
- luft/gastöde eller
- luftutsläpp



Do not operate the machine without the guard being fitted

Maskinen må ikke avendes uden at skærmen er monteret

De machine niet laten draaien zonder dat alle veiligheidsbeschermers zijn aangebracht.

Ne pas faire fonctionner la machine sans que la protection ne soit montée

Maschine nicht ohne montierte Schutzvorrichtung betreiben

Μην λειτουργείτε το μηχανή χωρίς την επάρση του ποσούλασματος.

Non far funzionare la macchina senza la protezione montata

Não opere esta máquina sem que a protecção esteja colocada

No hacer funcionar la máquina sin el dispositivo de seguridad puesto

Maskinen får inte köras utan att skyddet är på plats

No hacer funcionar la máquina sin tener montada y fijada la guarda de protección

XHP 660 CA
XHP 760 CA

WARNINGS

Warnings call attention to instructions which must be followed precisely to avoid injury or death.

CAUTIONS

Cautions call attention to instructions which must be followed precisely to avoid damaging the product, process or its surroundings.

NOTES

Notes are used for supplementary information.

ATTENTION !

L'indication "attention" précise que les instructions doivent être suivies absolument pour éviter tout accident grave.

PRECAUTIONS A PRENDRE

L'indication "précautions à prendre" précise que les instructions doivent être suivies absolument pour éviter d'endommager le produit, le procès ou son environnement.

NOTES

L'indication "notes" donne des compléments d'information.

WAARSCHUWING!

Waarschuwing! vestigt de aandacht op instructies die strikt opgevolgd dienen te worden om ernstige persoonlijke ongelukken te voorkomen die in het uiterste geval de dood tot gevolg kunnen hebben.

VOORZICHTIG!

Voorzichtig: vestigt de aandacht op instructies die strikt gevolgd dienen te worden om schade aan het produkt en/of de omgeving te voorkomen.

N.B.

Een N.B. dient om aanvullende informatie te verstrekken.

WARNUNG

Warnungen lenken die Aufmerksamkeit auf genau einzuhaltende Vorschriften zur Vermeidung von Verletzungen oder Todesfällen.

ACHTUNG

Achtung lenkt die Aufmerksamkeit auf genau einzuhaltende Instruktionen, um Schaden des Produktes, des Verfahrens oder der Umgebung zu vermeiden.

HINWEISE

Hinweise dienen zur weiteren Information.

SAFETY PRECAUTIONS

1. WARNING: Ensure that the operator reads and *understands* the decals and consults the manual before maintenance or operation.
2. WARNING: Make sure that all protective covers are in place and that the canopy/doors are closed during operation.
3. WARNING: When parking, ensure the use of the handbrake and also wheel chocks if required.
4. WARNING: Compressed air can be dangerous if incorrectly handled. Before doing any work on the unit, ensure that all pressure is vented from the system and that the machine cannot be started accidentally.
5. WARNING: Avoid bodily contact with compressed air.

PRECAUTION SECURITE

POUR LA

VEILIGHEIDSMATREGELEN

SICHERHEITSVORKEHRUNGEN

Revision 00
10/92

XHP 660 CA
XHP 760 CA

6. **WARNING:** Ensure that adequate ventilation of the cooling system and exhaust gases is maintained at all times.

7. **WARNING:** The following substances are used in the manufacture of this machine and may be hazardous to health if used incorrectly:

- . anti-freeze
- . compressor lubricant
- . engine lubricant
- . preservative grease
- . rust preventative
- . diesel fuel
- . battery electrolyte

AVOID INGESTION, SKIN CONTACT AND INHALATION OF FUMES

8. **WARNING:** The following substances may be produced during the operation of this machine:

- . brake lining dust
- . engine exhaust fumes

AVOID INHALATION

9. **WARNING:** Components of a non-metallic fibrous material may contain small quantities of white asbestos. When handling, dismantling or assembling these components, the following must be observed:

- . *Always operate in a well ventilated area.*
- . *Dispose of waste in a sealed container.*
- . *Use water to damp down dust.*
- . *Avoid inhalation of dust particles.*



XHP 660 CA
XHP 760 CA

10. **CAUTION:** *The safety valve located in the separator tank must be periodically checked for correct operation (at least every 2 years).*

11. **CAUTION:** *For the life of the machine, periodically check all pressure hoses and connections for visible deterioration.*

12. **CAUTION:** *If the unit is to be connected to a common header or together with another source of compressed air, then it is essential that a check valve is fitted.*

13. **NOTE:** Before towing, ensure that the brakes and lights are functioning correctly and meet necessary road traffic requirements.

14. **NOTE:** In compliance with EC directive 86/188/EEC on *Noise at the Workplace*, the following data is supplied:

The average sound pressure level at a 10m radius measured to 79/113/EEC is 72dB (A).

Further information may be obtained by request through Ingersoll-Rand customer services department.

Revision 00
10/92

2.0

CONTENTS

XHP 660 CA
XHP 760 CA

1. SAFETY.

2. CONTENTS.

3. FOREWORD.

4. GENERAL INFORMATION.

Dimensions.
Data.

5. OPERATING INSTRUCTIONS.

Commissioning.
Prior to starting.
Starting.
Cold weather starting.
Stopping.
Emergency stopping.
Re-starting.
Monitoring during operation.

6. MAINTENANCE.

Routine maintenance.
Lubrication.
Speed & pressure regulation.
Torque settings table.

7. MACHINE SYSTEMS.

Electrical system.
Piping & instrumentation system.

8. FAULT FINDING.

9. OPTIONS.

XHP 660 CA
XHP 760 CA

10. PARTS CATALOGUE

10

10

10

- 10.0 Running gear
- 10.1 Engine assembly
Airend assembly
- 10.2 Enclosure
- 10.3 Air intake system / Exhaust
system / Lifting bail
- 10.4 Oil/air piping
- 10.5 Fuel system
- 10.6 Regulation system
- 10.7 Cooling system
- 10.8 Instrumentation
- 10.9 Battery
- 10.10 Wiring harness
- 10.11 Decal positions

11. RECOMMENDED PARTS

12. FASTENERS INDEX

13. TUBE FITTINGS INDEX

14. PARTS INDEX

ABBREVIATIONS

*	Not illustrated
AR	As required
D	Germany
DK	Denmark
E	Spain
F	France
GB	Great Britain
I	Italy
N	Norway
NL	Netherlands
P	Portugal
S	Sweden

ABBREVIATIONS

*	Non illustré
AR	Comme demandé
D	Allemagne
DK	Danemark
E	Espagne
F	France
GB	Angleterre
I	Italie
N	Norvege
NL	Hollande
P	Portugal
S	Suede

AFKORTINGEN

*	Niet geïllustreerd
AR	Als vereist
D	Duitsland
DK	Denemarken
E	Spanje
F	Frankrijk
GB	Groot Brittanië
I	Italië
N	Noorwegen
NL	Nederland
P	Portugal
S	Zweden

KÜRZEL

*	Nicht abgebildet
AR	Wie erforderlich
D	Deutschland
DK	_____
E	_____
F	_____
GB	_____
I	Italien
N	_____
NL	_____
P	_____
S	_____

Revision 00
10/92

2.1

CONTENTS
ABBREVIATIONS

TABLE DES MATIERES
ABBREVIATIONS

INHOUD
AFKORTINGEN

INHALT
KÜRZEL

3.0

FOREWORD

XHP 660 CA
XHP 760 CA

FOREWORD

The contents of this manual are considered to be proprietary and confidential to Ingersoll-Rand and should not be reproduced without the prior written permission of Ingersoll-Rand.

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XHP660 XHP760 PORTABLE COMPRESSOR

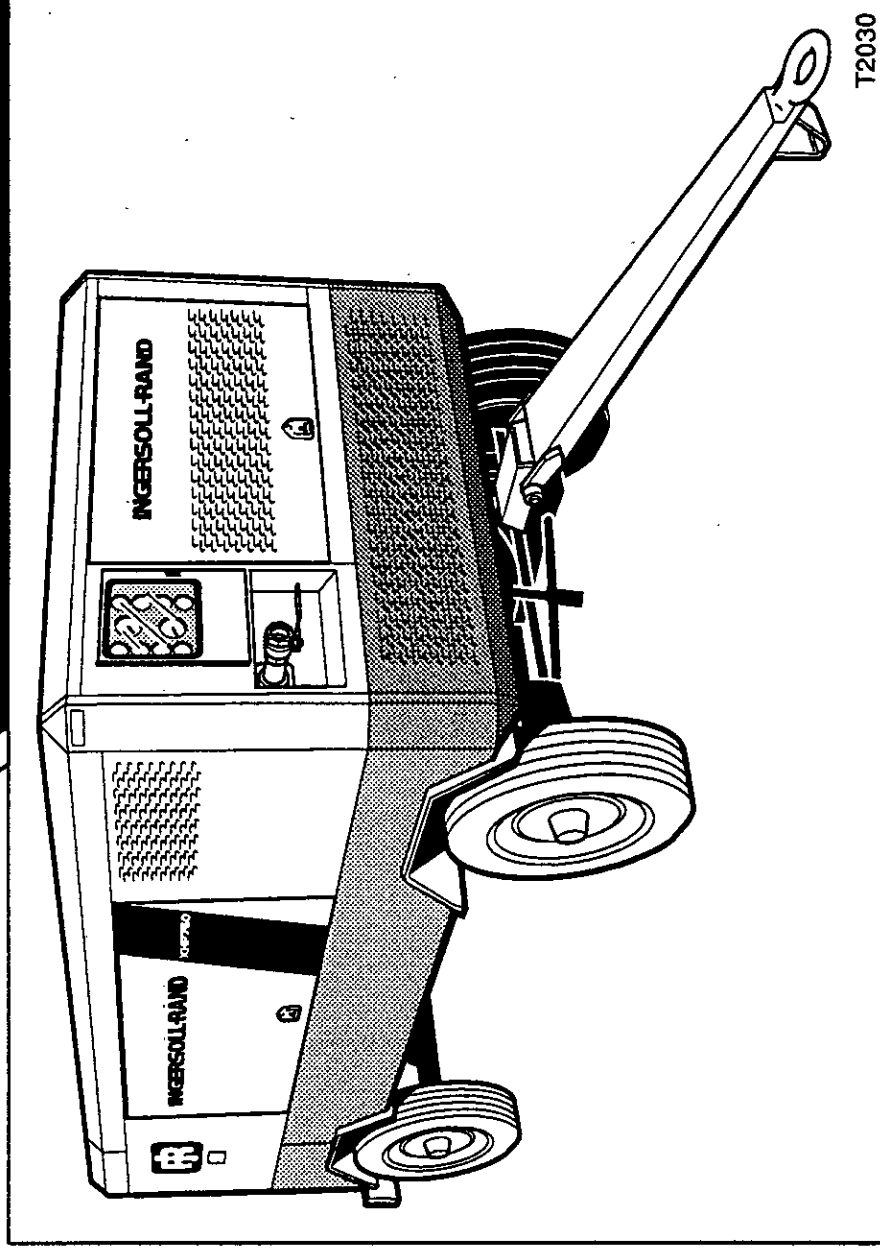
CATERPILLAR ENGINE

OPERATION AND MAINTENANCE MANUAL

MANUAL D'UTILISATION ET D'ENTRETIEN

BEDIENINGS EN ONDERHOUDSHANDBOEK

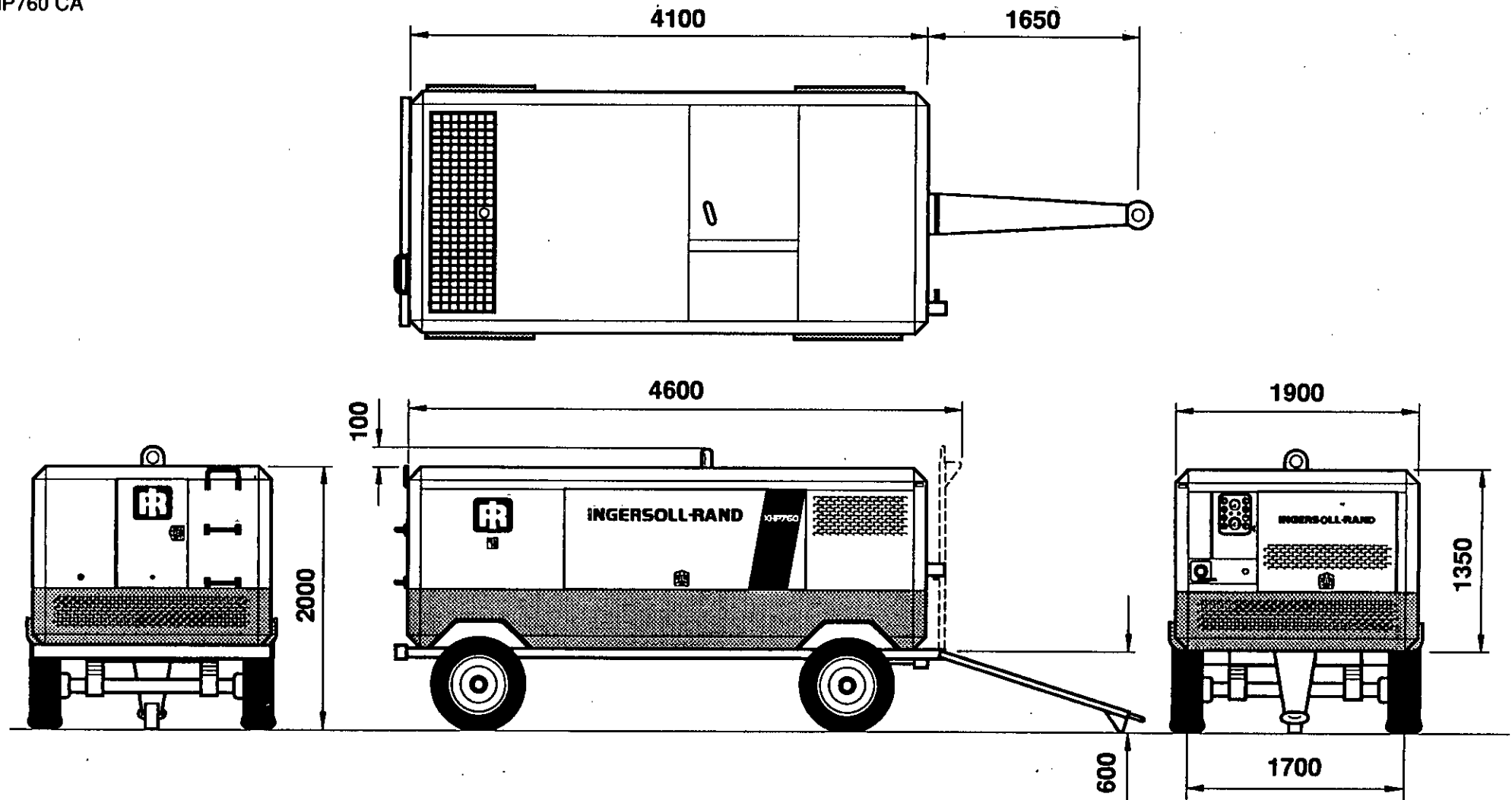
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4.0

GENERAL INFORMATION

XHP660 CA
XHP760 CA





USE ONLY GENUINE INGERSOLL-RAND PARTS

N'UTILISER QUE LES VERITABLES PIECES DETACHEES INGERSOLL-RAND

GEBRUIK ALLEEN ORIGINELE ONDERDELEN VAN INGERSOLL-RAND

NUR ORIGINAL-INGERSOLL-RAND-ERSATZTEILE VERWENDEN

4.2

GENERAL INFORMATION

XHP 660 CA
XHP 760 CA

COMPRESSOR

Model. XHP 760
Actual free air
delivery. 750 CFM
Normal operating
pressure. 300 psi, 20.6 bar

Model. XHP 660
Actual free air
delivery. 650 CFM
Normal operating
pressure. 350 psi, 24.1 bar

Operating ambient
temperature. -10C to +46C
Oil capacity. 100 litres

ENGINE

Type/Model CAT 3306 DITA
No. of cylinders. 6
Oil capacity 34 litres
Speed at full load. 1850 rpm
Speed at idle. 1200 rpm
Electrical system. 24V DC
Neg. Earth

Power available
at 1850 rpm 300 bph
(231kW)
Cooling system. 45 Litres
Fuel tank capacity. 500 litres

WEIGHTS

UNBRAKED VERSION

Shipping weight. 4800 Kg
Gross weight. 5200 Kg

Number of wheels. 4
Tyre size. 750x16x12PR
Tyre pressure. 6.75 bar



USE ONLY GENUINE INGERSOLL-RAND PARTS

N'UTILISER QUE LES VERITABLES PIECES DETACHEES INGERSOLL-RAND

GEBRUIK ALLEEN ORIGINELE ONDERDELEN VAN INGERSOLL-RAND

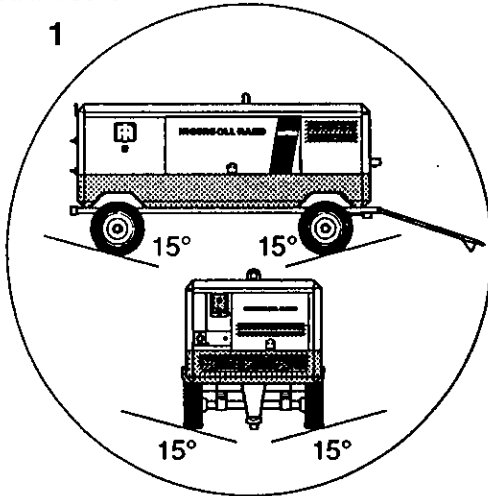
NUR ORIGINAL-INGERSOLL-RAND-ERSATZTEILE VERWENDEN

5.0

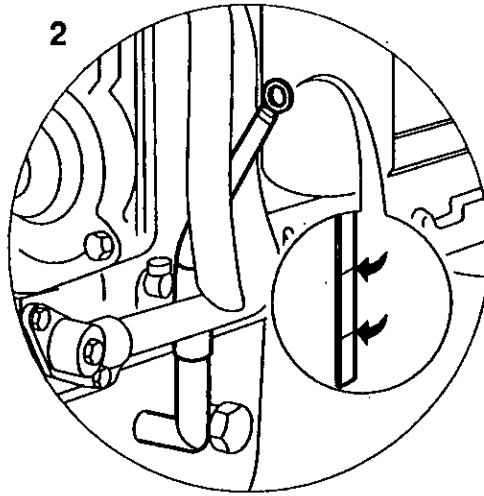
OPERATING INSTRUCTIONS

XHP660 CA
XHP760 CA

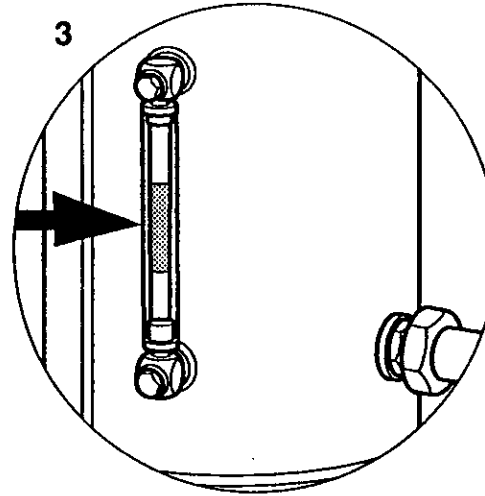
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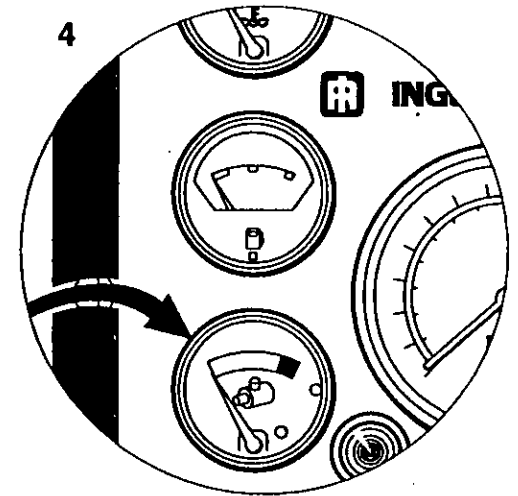
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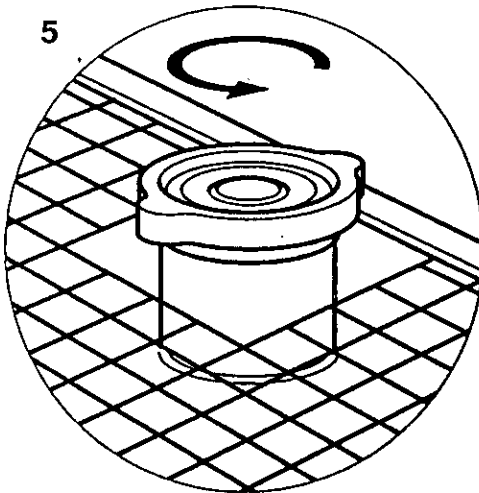
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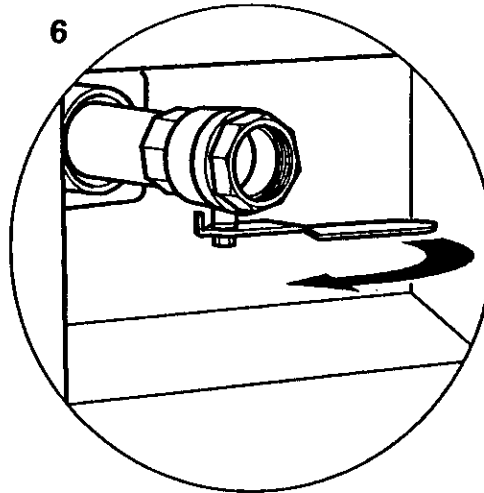
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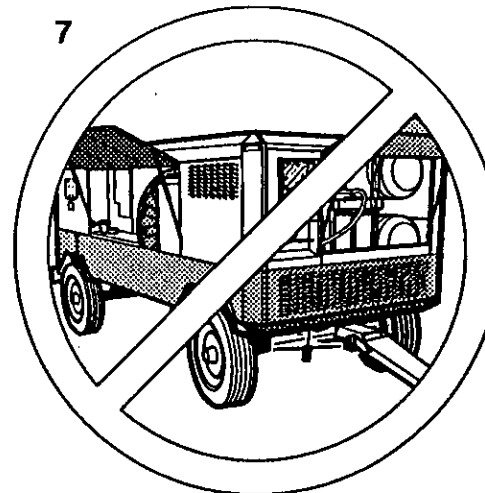
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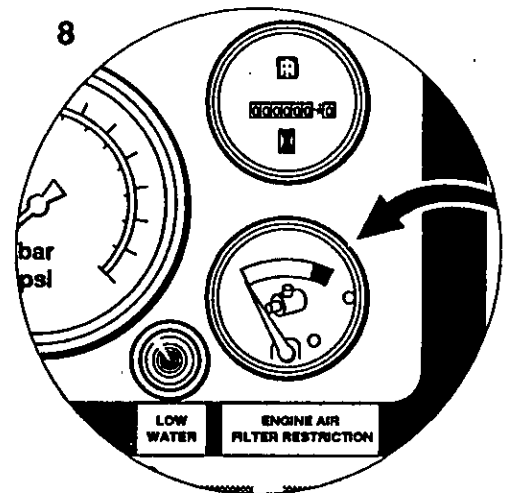
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7



8



T2034
Revision 00
10/92

COMMISSIONING

Upon receipt of the unit, and prior to putting it into service, it is important to adhere strictly to the instructions given below in *PRIOR TO STARTING*.

Before towing the unit, ensure that the tyre pressures are correct (refer to the *GENERAL INFORMATION* section of this manual) and that the handbrake is functioning correctly (refer to the *MAINTENANCE* section of this manual). Before towing the unit during the hours of darkness, ensure that the lights are functioning correctly (where fitted).

PRIOR TO STARTING

Refer to the diagram on page 5.0

1: Place the unit in a position that is as level as possible. The design of the unit permits a 15 degree lengthways and sideways limit on out of level operation. It is the engine, not the compressor, that is the limiting factor. When the unit has to be operated out of level, it is important to keep the engine oil level near the high level mark (with the unit level).

CAUTION: Do not overfill either the engine or the compressor with oil.

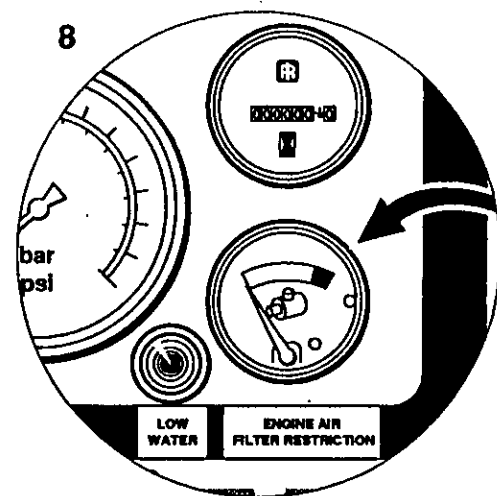
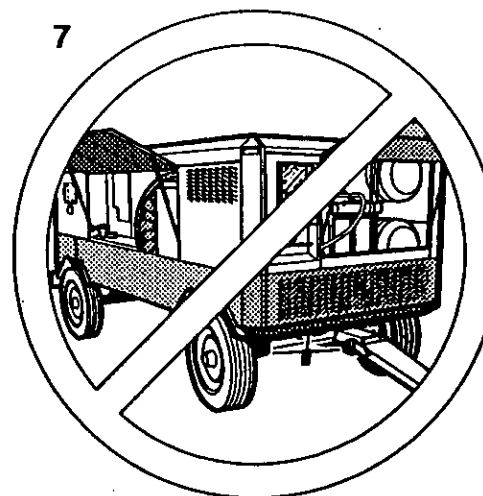
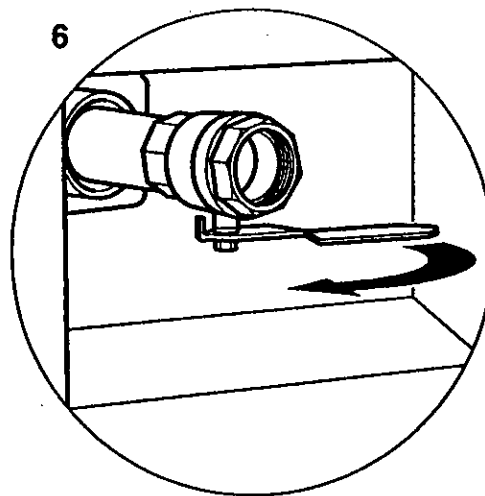
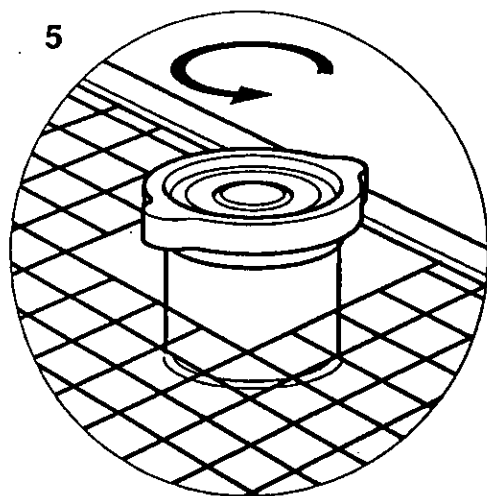
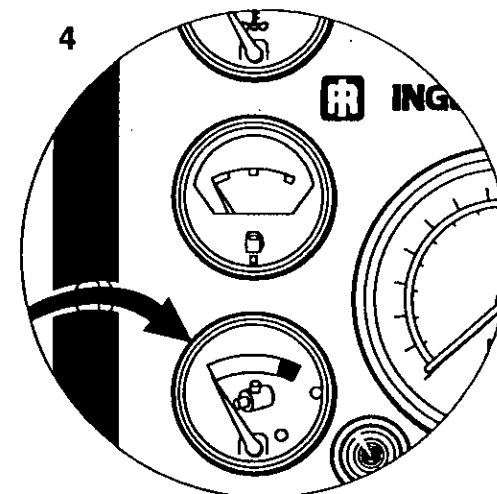
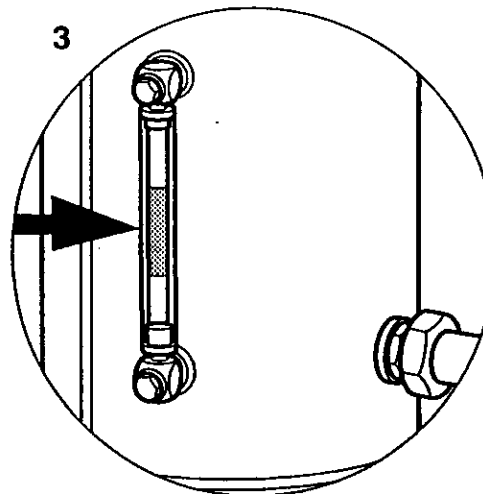
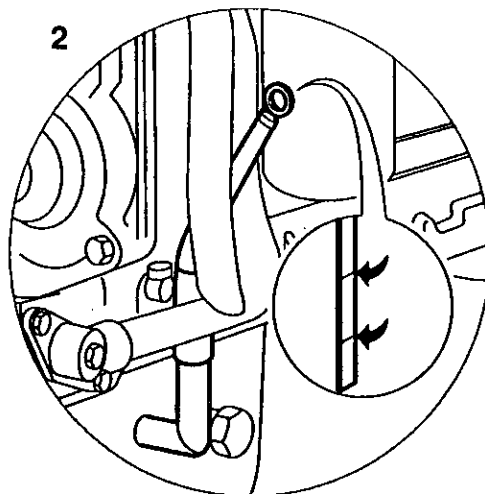
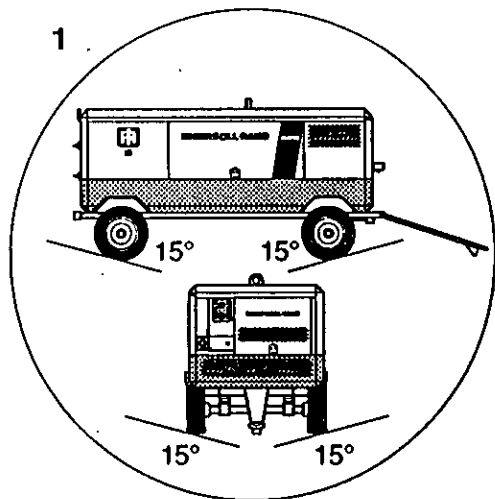
2: Check the engine lubrication oil in accordance with the operating instructions in the *Engine Operator's Manual*.

3: Check the compressor oil level in the sight glass located on the separator tank.

5.2

OPERATING INSTRUCTIONS

XHP660 CA
XHP760 CA



T2034
Revision 00
10/92

XHP 660 CA
XHP 760 CA

PRIOR TO STARTING
continued.....

4: Check the diesel fuel level. A good rule is to top up at the end of each working day. This prevents condensation from occurring in the tank.

CAUTION: Use only a No. 2-D diesel fuel oil with a minimum octane number of 45 and a sulphur content not greater than 0.5%.

5. Check the radiator coolant level (with the unit level).

6. Close all the service valves to allow full air pressure, this ensures proper oil circulation.

7: **CAUTION:** Do not operate the machine with the canopy/doors in the open position as this may cause overheating and operators to be exposed to high noise levels.

8. Check the air restriction gauges. Refer to the **MAINTENANCE** section of this manual.

CAUTION: If the unit is to be connected to a common header tank or together with another source of compressed air, then it is essential that a check valve is fitted.

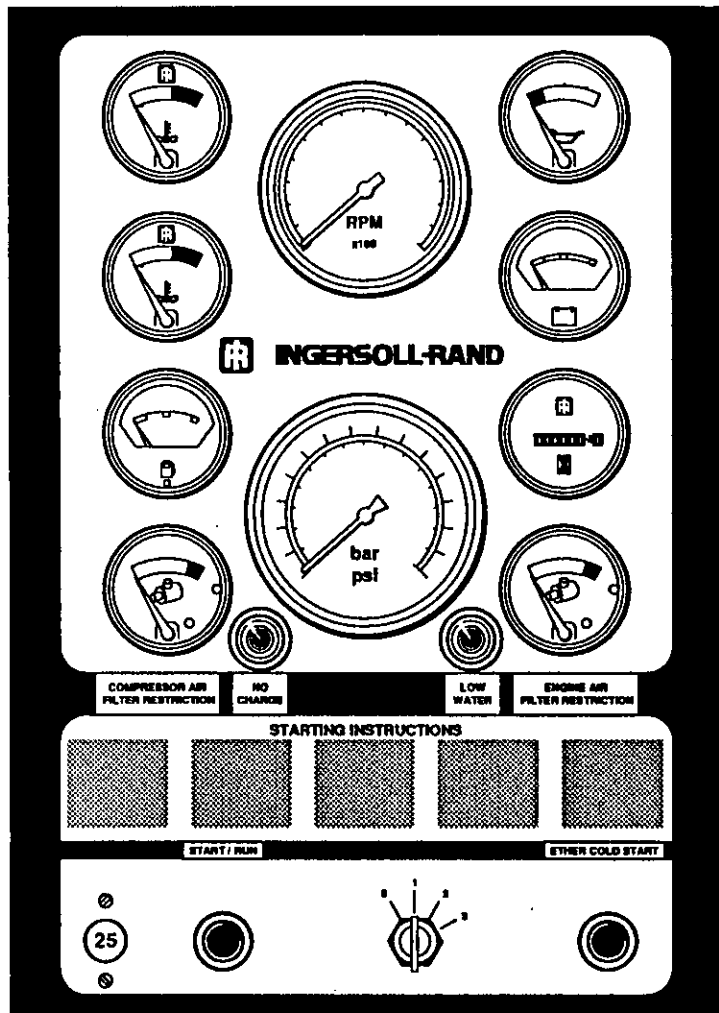
Revision 00
10/92

5.3 OPERATING INSTRUCTIONS

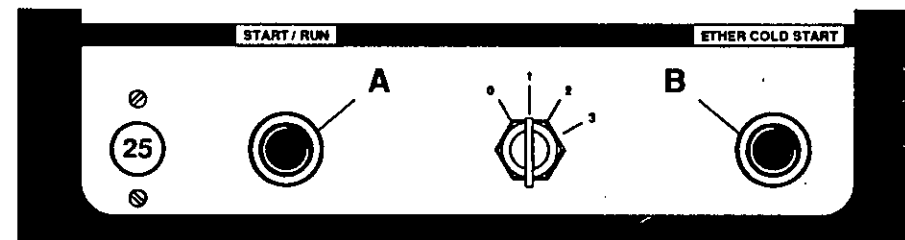
5.4

OPERATING INSTRUCTIONS

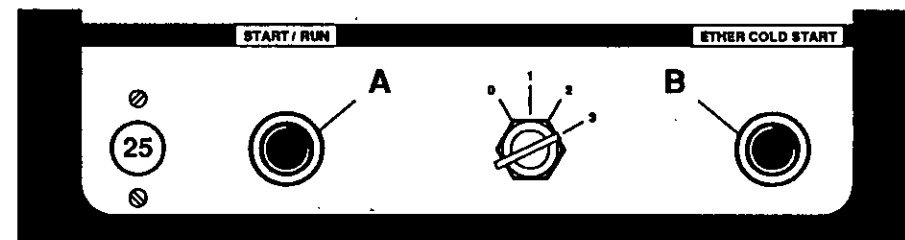
XHP660 CA
XHP760 CA



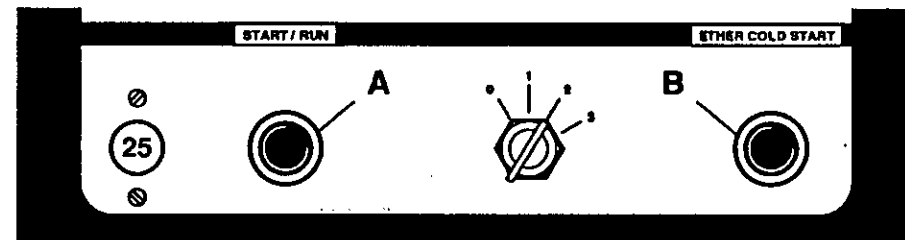
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2



3



STARTING THE UNIT

Refer to the diagram on page 5.4

All normal starting functions are incorporated in the key operated switch.

- 1: Turn the key switch to position I, the battery condition light will illuminate.
- 2: Continue to turn the key switch to position III (engine start position).
- 3: Release to position II when the engine starts.
- 4: The engine will now be running at a reduced speed. Allow unit to reach its operating temperature, then depress *Start-Run* button (A). The engine will immediately increase to maximum speed and the compressor will soon reach operating pressure.

CAUTION: Do not operate the starter motor continuously for periods longer than 30 seconds, as this will cause permanent damage to the starter motor. Wait at least one minute between attempts to start the engine. Refer to the *MAINTENANCE* section of this manual if the engine persistently fails to start.

COLD WEATHER START

Refer to diagram on page 5.4

This machine is fitted with an ether cold starting aid. In cold weather the following procedure should be followed.

5.6

OPERATING INSTRUCTIONS

XHP 660 CA
XHP 760 CA

COLD WEATHER START
continued.....

Refer to the diagram on page 5.4

2. Turn the keyswitch to position *III*, (Engine start position) and simultaneously press the control button (**B**) (Ether cold start). The measured amount of ether is then metered into the engine.

3. Release to position *II* when the engine starts.

4. The engine will now be running at a reduced speed. Allow unit to reach operating temperature then depress *start-run* button (**A**). The engine will immediately increase to maximum speed and the compressor will soon reach operating pressure.

CAUTION: *If the engine does not start, repeat the above procedure after waiting for a minimum of one minute.*

WARNING: Never use ether while the engine is running as this may result in severe damage.

If the engine fails to start refer to the **MAINTENANCE** section of this manual, and to the **ENGINE MANUFACTURERS MANUAL**.

Allow the engine to warm up then push the '*Start-run button*'. At this point in the operation of the unit it is safe to apply full load to the engine.

XHP 660 CA
XHP 760 CA

STOPPING THE UNIT

- 1: Close the service valve.
- 2: Allow the machine to run unloaded for a short period of time to reduce the engine temperature.
- 3: Turn the start switch to the 0 (off) position.
- 4: As soon as the engine has stopped, the automatic blowdown valve should relieve all pressure from the receiver-separator system.

If the automatic blowdown valve fails to operate, then pressure must be relieved from the system by means of the service valve(s)

WARNING: The compressed air **MUST** be released gradually by **PARTIALLY** opening the service valve(s). Never release pressure by opening the valve(s) fully.

WARNING: When relieving system pressure by means of the service valve(s), a small amount of pressure will remain in the system. No maintenance work should be carried out whilst this situation exists.

CAUTION: *Never allow the machine to stand idle with pressure in the system.*

Revision 00
10/92

5.8

OPERATING INSTRUCTIONS

XHP 660 CA
XHP 760 CA

EMERGENCY STOPPING

Refer to the diagram on page 5.4

In the event that the unit has to be stopped in an emergency, **TURN THE KEYSWITCH LOCATED ON THE INSTRUMENT PANEL TO THE 0 (OFF) POSITION.**

RE-STARTING AFTER AN EMERGENCY

If the unit has been switched off because of a machine malfunction, then identify and correct the fault before attempting to re-start.

If the unit has been switched off because it constituted a safety hazard, then ensure that the machine can be operated safely before re-starting.

Refer to the *PRIOR TO STARTING* and *STARTING THE UNIT* instructions earlier in this section before re-starting the machine.

MONITORING DURING OPERATION

Should any of these four shutdown conditions occur, the unit will stop. These are:

- 1: Low engine oil pressure
- 2: High air discharge temperature
- 3: High engine water temperature
- 4: Low water level

CAUTION: *To ensure an adequate flow of oil to the compressor at low temperature, never allow the system pressure to fall below 50psi (3.5 bar).*



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6.0

MAINTENANCE

MAINTENANCE

ONDERHOUD

WARTUNG

XHP 660 CA XHP 760 CA	Daily	Radiator. Oil level. Air filter(s). Fuel tank. Water trap	Check and replenish as required. Check and refill as required. Clean the dust collector box. Refill to prevent condensation. Drain off water.
	Weekly/ 50 hours	Protective shutdown switches. Compressor oil filter. Fan belts.	Visually check tightness. Replace after the first 50 hours from new. Check for correct tension and excessive wear. Re-tension/replace as necessary.
	Monthly/ 150 hours	Oil cooler/Radiator. Compressor oil filter. Hoses. Running Gear	Check for the build up of foreign matter. Clean if necessary by blowing out with air or pressure wash. Replace after the first 50 hours from new. Inspect. Grease nipples on steering
	3 months/ 250 hours	Safety shutdown system. Running Gear. Water Agglomerator	Test the operation of the switches. Check the bolts securing the running gear to the chassis. Re-tighten where necessary (Refer to the <i>TORQUE SETTING TABLE</i> in this manual). Replace element.
	3/6/30 months 250/500/2500 hrs.	Engine.	Refer to the <i>ENGINE MANUFACTURER'S MANUAL</i> .
	6 months/ 500 hours	Compressor oil filter. Compressor oil. Hoses. Scavenge line. Fan drive belts.	Replace. Replenish. Inspect. Clean if necessary. Replenish if necessary.
	1 year/ 1000 hours	Air filter elements. Wheel bearings. Engine breather. Safety shutdown system. Compressor oil.	Replace. Pack with grease. Clean element. Test the operation of the switches. Replace.
	As required	Separator element. Battery. Cooling system. Running gear.	Replace if damaged. Clean and grease terminals. Add anti-freeze and inhibitors Check and adjust the brakes and brake cables. Adjust and grease linkages.

XHP 660 CA
XHP 760 CA

Revision 00
10/92

6.1

MAINTENANCE

MAINTENANCE

ONDERHOUD

WARTUNG

6.2

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XHP 660 CA
XHP 760 CA

GENERAL

This section refers to the various components which require periodic maintenance and replacement.

The *SERVICE/MAINTENANCE CHART* indicates the various components' descriptions and the intervals when maintenance has to take place. Oil capacities, etc., can be found in the *GENERAL INFORMATION* section of this manual.

For any specification or specific requirement on service or preventative maintenance for the engine, refer to the *ENGINE MANUFACTURER'S MANUAL*.

PROTECTIVE SHUTDOWN SYSTEM

Consists of an air discharge temperature switch, an engine water temperature switch, a water level switch, and an engine oil pressure switch.

At three month intervals, test the air discharge temperature switch and engine water temperature switch as follows:

- . Start the unit.
- . Disconnect each switch in turn—the unit should shutdown.
- . Re-connect the switch.

XHP 660 CA
XHP 760 CA

PROTECTIVE SHUTDOWN SYSTEM continued.....

Also at three month intervals, test the engine oil pressure switch as follows:

- . Start the unit.
- . Connect a wire between the switch terminal and a suitable earth point – the unit should shutdown.
- . Re-connect the switch.

At twelve month intervals, test the engine oil pressure switch as follows:

- . Remove the switch from the unit.
- . Connect it to an independent low pressure supply (either air or oil).
- . The switch should operate at 1 bar.

The air discharge and water temperature switches should also be tested annually by removing them from the unit and immersing them in a bath of heated oil. The air discharge temperature switch should operate at 120C, whilst the water temperature switch should operate at 110C.

The low water level switch should be tested annually, by draining approximately two gallons of water from the radiator by way of the drain plug. The low water level light should then illuminate when the keyswitch is turned to position I.

CAUTION: Do not drain water from the radiator whilst the machine is running.

CAUTION: Never remove or replace switches when the machine is running.

SCAVENGER LINE

The scavenger line runs from the drop tube in the separator tank, to the orifice fitting located in the airend.

Examine the orifice check valve and hoses at every service or in the event of oil carryover into the discharge air.

It is good preventative maintenance to check that the scavenge line and tube are clear of any obstruction each time the compressor lubricant is changed as any blockage will result in oil carryover into the discharge air.

COMPRESSOR OIL FILTERS

Refer to the *MAINTENANCE CHART* in this section for the recommended servicing intervals.

Removal

WARNING: Do not remove the filter(s) without first making sure that the machine is stopped and the system has been completely relieved of all air pressure. (Refer to *STOPPING THE UNIT* in the *OPERATING INSTRUCTIONS* section of this manual).

Clean the exterior of the filter housing and remove the *spin-on* element by turning it in a counter-clockwise direction.

XHP 660 CA
XHP 760 CA

COMPRESSOR OIL FILTERS continued.....

Inspection

- Examine the filter element.

CAUTION: *If there is any indication of the formation of varnishes, shellacs or lacquers on the filter elements, it is a warning that the compressor lubricating and cooling oil has deteriorated and that it should be changed immediately. Refer to LUBRICATION later in this section.*

Reassembly

- Clean the filter gasket contact area and install the new element by screwing in a clockwise direction until the gasket makes contact with the filter housing. Tighten a further $1/2$ to $3/4$ of a revolution.

CAUTION: *Start the engine (refer to PRIOR TO STARTING and STARTING THE UNIT in the OPERATING INSTRUCTIONS section of this manual) and check for leakage before the machine is put back into service.*

COMPRESSOR OIL SEPARATOR ELEMENT

Normally the separator element will not require periodic maintenance provided that the air and oil filter elements are correctly maintained.

If, however, the element has to be replaced, then proceed as follows:

COMPRESSOR OIL SEPARATOR ELEMENT continued.....

Removal

WARNING: Do not remove the filter(s) without first making sure that the machine is stopped and the system has been completely relieved of all air pressure. (Refer to *STOPPING THE UNIT* in the *OPERATING INSTRUCTIONS* section of this manual).

- . Disconnect all hoses and tubes from the separator tank cover plate.
- . Remove the drop-tube from the separator tank cover plate and then remove the cover plate.
- . Remove the separator element.

Inspection

- . Examine all hoses and tubes, and replace if necessary.

Reassembly

- . The orifice, check valve and filter gasket contact area should be cleaned thoroughly before reassembly.
- . Install the new element.

WARNING: Do not remove the staple(s) from the separator element since they serve to ground any possible static build-up.

Reposition the cover plate, taking care not to damage the gasket, and replace the cover plate screws tightening in a *criss-cross* pattern to the recommended torque (refer to the *TORQUE SETTING TABLE* later in this section).

XHP 660 CA
XHP 760 CA

**COMPRESSOR OIL SEPARATOR
ELEMENT (Re-assembly)**
continued.....

Replace the drop-tube and
reconnect all hoses and tubes to the
separator tank cover plate.

Replace the compressor oil (refer to
LUBRICATION later in this section).

CAUTION: Start the engine (refer to
PRIOR TO STARTING and
STARTING THE UNIT in the
OPERATING INSTRUCTIONS
section of this manual) and check the
for leakage before the machine is put
back into service.

**COMPRESSOR OIL COOLER
AND RADIATOR**

When grease, oil and dirt
accumulate on the exterior surfaces of
the oil cooler and radiator, their
efficiency is impaired. It is
recommended that each month the oil
cooler and radiator be cleaned by
directing a jet of compressed air,
(carrying if possible a non-flammable
cleaning solvent) over the exterior
core of the cooler/radiator. This
should remove any accumulation of
oil, grease and dirt from the exterior
core of the cooler so that the entire
cooling area can radiate the heat of
the lubricating and cooling oil/water
into the airstream.

ENGINE AIR FILTER ELEMENT

The air filter should be inspected regularly (refer to the *SERVICE/MAINTENANCE CHART*) and the element replaced when the restriction indicator shows red or every 1000 hours, whichever comes first. The dust collector box(es) should be cleaned daily (more frequently in dusty operating conditions) and not allowed to become more than half full.

Removal

CAUTION: *Never remove and replace element(s) when the machine is running.*

Clean the exterior of the filter housing and remove the filter element by releasing the wingnut.

Inspection

Check for cracks, holes or any other damage to the element by holding it up to a light source, or by passing a lamp inside.

Check the seal at the end of the element and replace if any sign of damage is evident.

Re-assembly

Assemble the new element into the filter housing ensuring that the seal seats properly.

Secure the element in the housing by hand tightening the wingnut.

Reset the restriction indicator by depressing the rubber diaphragm.

XHP 660 CA
XHP 760 CA

ENGINE AIR FILTER ELEMENT (Re-assembly) continued.....

Assemble the dust collector box parts, ensuring that they are correctly positioned.

Before restarting the machine, check that all clamps are tight.

NOTE: In the event that a new filter element is not readily available, the element can be re-used after cleaning. In this case the following procedure must be carried out:

Clean the element by directing a jet of clean, dry compressed air, no more than 5 bar (75 p.s.i.), at an angle of 45 degrees to the outside of the element. Carefully blow any dust from each fold of the element.

Compressed air cleaning is only recommended when a new element is not available.

VENTILATION

Always check that the air inlets and outlets are clear of debris etc.

CAUTION: NEVER clean by blowing air inwards.

COOLING FAN DRIVE

Periodically check that the fan mounting bolt in the fan hub has not loosened. If, for any reason, it becomes necessary to remove the fan or re-tighten the fan mounting bolt, apply a good grade of commercially available thread locking compound to the bolt threads and tighten to the torque value shown in the **TORQUE SETTING TABLE** later in this section.

XHP 660 CA
XHP 760 CA

COOLING FAN DRIVE **continued.....**

The fan belts should be checked regularly for wear and correct tensioning.

FUEL SYSTEM

The fuel tank should be filled daily or every eight hours. To prevent condensation in the fuel tanks, it is advisable to top up after the machine is shut down or at the end of each working day. Every six months, the drain plug should be removed from the tank, draining any sediment or accumulated condensate.

Note: REMOVING AIR FROM THE FUEL SYSTEM.

If it is suspected that air is present in the fuel system, then proceed as follows:—

1. Refill fuel tank.
2. Loosen the fuel injector nuts.
3. Operate the hand pump located on the engine, and observe fuel being pumped out. Continue pumping until a constant flow of fuel emits from the loose connections, and contains no air bubbles.
4. Tighten loose connections and nuts and prime with hand pump until fuel pressure gauge pointer (located on engine) is in the green sector.

WATER AGGLOMERATOR

The water agglomerator contains a filter element which should be replaced every 250 hours.

Revision 00
10/92

6.12

MAINTENANCE

MAINTENANCE

ONDERHOUD

WARTUNG

XHP 660 CA
XHP 760 CA

HOSES

All components of the engine cooling air intake system should be checked periodically to keep the engine at peak efficiency.

At the recommended intervals, (see the *SERVICE/MAINTENANCE CHART*), inspect all of the intake lines to the air filter, and all flexible hoses used for air lines, oil lines and fuel lines.

Periodically inspect all pipework for cracks, leaks, etc. and replace immediately if damaged.

ENGINE ANCILLARY EQUIPMENT

Several proprietary items attached to the engine require servicing at regular intervals. Refer to the *ENGINE MANUFACTURER'S MANUAL*.

ELECTRICAL SYSTEM

WARNING: Always disconnect the battery cables before performing any maintenance or service.

Inspect the engine oil pressure switch and the instrument panel relay contacts for evidence of arcing and pitting. Clean where necessary.

Check the mechanical action of the components.

XHP 660 CA
XHP 760 CA

ELECTRICAL SYSTEM continued..

Check the security of electrical terminals on the switches and relays i.e. nuts or screws loose, which may cause local hot spot oxidation.

Inspect the components and wiring for signs of overheating i.e. discolouration, charring of cables, deformation of parts, acrid smells and blistered paint.

BATTERY

Keep the battery terminals and cable clamps clean and lightly coated with petroleum jelly to prevent corrosion. Maintain the correct electrolyte level within the cells, using only distilled water.

The retaining clamp should be kept tight enough to prevent the battery from moving.

PRESSURE SYSTEM

At 500 hour intervals it is necessary to inspect the external surfaces of the system (from the airend through to the discharge valve(s)) including hoses, tubes, tube fittings and the separator tank, for visible signs of impact damage, excessive corrosion, abrasion, tightness and chafing. Any suspect parts should be replaced before the machine is put back into service.

Revision 00
10/92

XHP 660 CA
XHP 760 CA

TYRES/TYRE PRESSURE

See the *GENERAL INFORMATION* section of this manual.

RUNNING GEAR/WHEELS

Check the wheel nut torque 20 miles (32 kilometres) after refitting the wheel. Refer to the *TORQUE SETTING TABLE* later in this section.

The bolts securing the running gear to the chassis should be checked periodically for tightness (refer to the maintenance chart for frequency) and re-tightened where necessary. Refer to the *TORQUE SETTING TABLE* later in this section.

LUBRICATION

The engine is initially supplied with engine oil sufficient for a nominal 250 hours operation (for more information, consult The *ENGINE MANUFACTURER'S MANUAL*).

CAUTION: *Always check the oil levels before a new machine is put into service.*

If, for any reason, the unit has been drained, it must be re-filled with new oil before it is put into operation.

XHP 660 CA
XHP 760 CA

ENGINE LUBRICATING OIL

The engine oil should be changed at the recommended intervals, in line with manufacturer's instructions. Refer to the *ENGINE MANUFACTURER'S MANUAL*.

ENGINE LUBRICATING OIL SPECIFICATION

Refer to the *ENGINE MANUFACTURER'S MANUAL*.

ENGINE OIL FILTER ELEMENT

The engine oil filter element should be changed at the recommended intervals, in line with manufacturer's instructions. Refer to the *ENGINE MANUFACTURER'S MANUAL*.

COMPRESSOR LUBRICATING OIL

Refer to the *MAINTENANCE CHART* in this section for service intervals.

NOTE: If the machine has been operating under adverse conditions, or has suffered long shutdown periods, then more frequent service intervals will be required.

Revision 00
10/92

XHP 660 CA
XHP 760 CA

LUBRICATION. Compressor
lubricating oil continued

WARNING: DO NOT, under any circumstances, remove any drain plugs or the oil filler plug from the compressor lubricating and cooling system without first making sure that the machine is stopped and the system has been completely relieved of all air pressure (refer to *STOPPING THE UNIT* in the *OPERATING INSTRUCTIONS* section of this manual).

Completely drain the receiver/separator system including the piping and oil cooler by removing the drain plugs and collecting the used oil in a suitable container.

Replace all the drain plugs ensuring that each one is secure.

NOTE: If the oil is drained immediately after the machine has been running, then most of the sediment will be in suspension and will therefore drain more readily.

CAUTION: Some oil mixtures are incompatible and result in the formation of varishes, shellacs or lacquers which may be insoluble.

NOTE: Always specify *INGERSOLL-RAND* compressor lubricating oil (refer to the *PARTS CATALOGUE* section of this manual for details).

XHP 660 CA
XHP 760 CA

COMPRESSOR LUBRICATING OIL SPECIFICATION

Ingersoll-Rand lubricating oil is recommended for use in all Ingersoll-Rand portable compressors. The oil conforms to the specifications listed in table a) below.

NOTE: If alternative lubricants are to be used then they too must conform to this specification.

COMPRESSOR LUBRICATING AND COOLING OIL RECOMMENDATIONS.

XHP 760

a) AMBIENT TEMPERATURE

-23C to +52C

**USE DEXRON or DEXRON II
AUTOMATIC TRANSMISSION
FLUID**

or

b) AMBIENT TEMPERATURE

-18C to +52C

**USE IR XHP 505 SYNTHETIC
LUBRICANT**

XHP 660

a) AMBIENT TEMPERATURE

-18C to +38C

**USE IR XHP 505 SYNTHETIC
LUBRICANT**

or

b) AMBIENT TEMPERATURE

-21C to +46C

**USE IR XHP 1001 SYNTHETIC
LUBRICANT**

Revision 00
10/92

XHP 660 CA
XHP 760 CA

LUBRICATION (compressor
lubricating oil specification)
continued.....

CAUTION: Care should be taken to ensure that all downstream components will be compatible with synthetic lubricants.

**COMPRESSOR OIL FILTER
ELEMENT**

Refer to the
SERVICE/MAINTENANCE CHART
in this section for service intervals.

**RUNNING GEAR WHEEL
BEARINGS**

Wheel bearings should be packed with grease every 12 months. The type of grease used should conform to specification *MIL-G-10924*.



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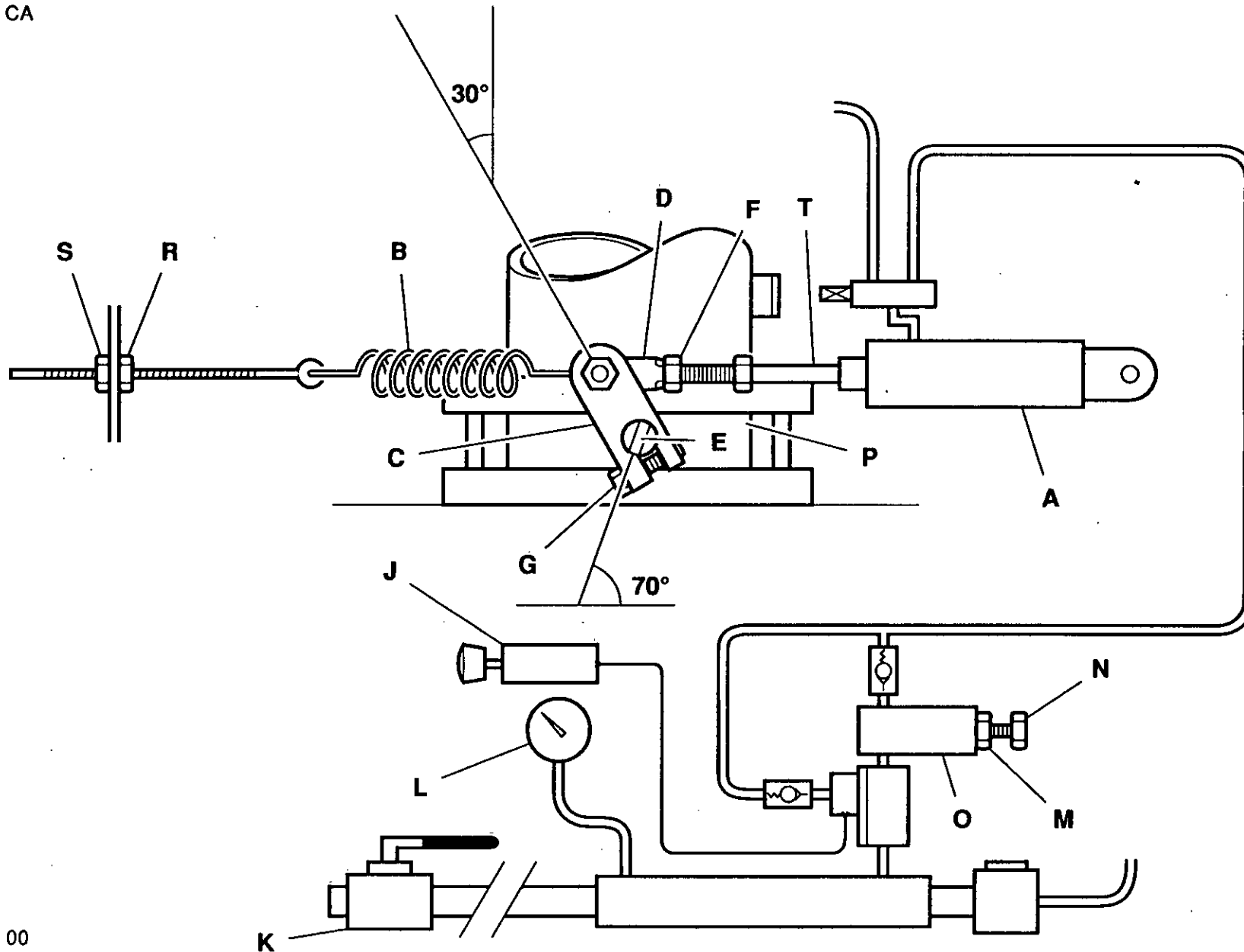
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6.20

MAINTENANCE

XHP660 CA
XHP760 CA



T2037
Revision 00
10/92

XHP 660 CA
XHP 760 CA

SPEED AND PRESSURE REGULATION ADJUSTMENT.

Refer to diagram on page 6.20

NOTE: The operating pressure of this unit was set at the factory to the maximum rating (at full speed). However, this pressure may be reset down to 150 psi (1050kPa).

Normally regulation requires no adjusting, but if proper adjustment is lost, proceed as follows:

BEFORE STARTING UNIT:

1. With the unit stopped, ensure that the pneumatic actuating cylinder rod (U) is fully extended by adjusting the engine throttle cable (H).

NOTE: The engine governor must be at the full speed position.

2. Disconnect the ballast spring (B) from the butterfly valve pilot lever (C).

3. Adjust the rod end bearing (D) until the butterfly valve pilot lever (C) moves approximately 30 degrees past the vertical towards the spring side of the butterfly valve shaft (E). Tighten the locknut (F) to hold the adjustment.

4. Loosen the screw (G) on the butterfly valve pilot lever, and turn the shaft (E) until the mark on the end of the shaft is approximately 70 degrees from the horizontal line. (as shown on the diagram).

Revision 00
10/92

XHP 660 CA
XHP 760 CA

**SPEED AND PRESSURE
REGULATION ADJUSTMENT**

continued.....

Refer to diagram on page 6.20.

5. Re-tighten the screw (G). Rotate the butterfly valve open and closed several times to ensure that the linkages are not binding. Start the unit.

AFTER STARTING UNIT:

6. Allow engine to warm up. Push the *start-run* valve (J) on the control panel.

7. Adjust the service valve (K) to obtain the maximum rating of the unit (*) on the discharge pressure gauge (L).

NOTE: The pneumatic cylinder must be fully extended, and the discharge pressure at the maximum rating of the unit (*) during steps 8 & 9. If this pressure cannot be obtained without the pneumatic cylinder beginning to retract, loosen the pressure regulator locknut (M) and adjust the regulator by rotating screw (N), in a clockwise direction, until the maximum rating of the unit (*) can be maintained with the pneumatic cylinder rod (T) fully extended.

(*) – See GENERAL INFORMATION specifications.

XHP 660 CA
XHP 760 CA

**SPEED AND PRESSURE
REGULATION ADJUSTMENT**
continued.....

8. Rotate the regulator adjusting screw (N) clockwise an additional revolution. Adjust the engine throttle cable (H) to obtain the full load engine speed at the maximum rating of the unit (*). Throttle cable adjustment can be made by screwing the rod end bearing (D) clockwise for increasing speed, and counterclockwise for reducing speed. Tighten locknut (F) against the rod end bearing

9. When the full load engine speed is attained, re-adjust the pressure by rotating screw (N) until the pneumatic cylinder just begins to retract whilst still maintaining the maximum rating of the unit (*). This adjustment is important to limit the regulation range. Tighten the locknut (M) to hold the setting.

10. Close the service valve (K) the engine will slow to idle speed and the butterfly valve (P) will close. Observe the idle speed then shut the unit down.

WARNING: Do not attempt to adjust the idle speed whilst the engine is running.

NOTE: The idle speed should not be adjusted until the unit has reached its operating temperature.

(*) – See GENERAL INFORMATION Specifications.

Revision 00
10/92

XHP 660 CA
XHP 760 CA

**SPEED AND PRESSURE
REGULATION ADJUSTMENT**
continued.....

11. To change the idle speed, adjust the butterfly valve opening by first loosening the screw (G), and then adjusting the butterfly valve shaft (E). Open the butterfly valve to reduce idle speed and close to increase the idle speed. Re-tighten the screw (G). Re-start the unit and press the 'start-run' valve (J). Re-check the idle speed. Repeat step 11 if necessary.

12. Connect the ballast spring (B) to the butterfly valve pivot lever (C). Loosen the locknut (R). Re-start the unit. With the unit operating in the full load condition, adjust the nut (S) on the threaded rod to obtain maximum spring tension.

13. Slowly open the service valve (K). If the engine speed does not stabilize, increase the tension on the ballast spring. After the speed stabilizes, tighten the locknut (R).

14. To regulate to any pressure between 150psi (1050kPa) and the maximum rating of the unit (*), change the adjustment of the screw (N) to obtain the required discharge pressure at the full load engine speed. Tighten the locknut (M) to hold the setting.

(*) – See GENERAL INFORMATION Specifications.



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NUR ORIGINAL-INGERSOLL-RAND-ERSATZTEILE VERWENDEN

6.26

MAINTENANCE Torque Values

MAINTENANCE

ONDERHOUD

WARTUNG

XHP 660 CA
XHP 760 CA

	Size	Nm
Wheel nuts	M22	220
Drive ring to flywheel	3/8 UNC	35
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Airend to engine	7/16 UNC	50
Mounting bracket to airend	M20	237
Resilient mounts to frame	3/4 UNC	154
Cylinder bracket to engine	3/8	24
Starter motor terminals	1/2	24
Engine exhaust pipe to turbo	M12	39

	Size	Nm
Autella clamps	M8	47
Inlet flange to airend	M8 x 20	190
Cover to separator tank	M20 x 85	286
Lifting bail top beam	M16	160
Lifting bail to truckframe	M20	286
Discharge pipe to separator tank	M20	105
Discharge pipe to airend	3/4 UNC	105
Fan to fan hub	3/8 UNC	47

XHP 660 CA
XHP 760 CA

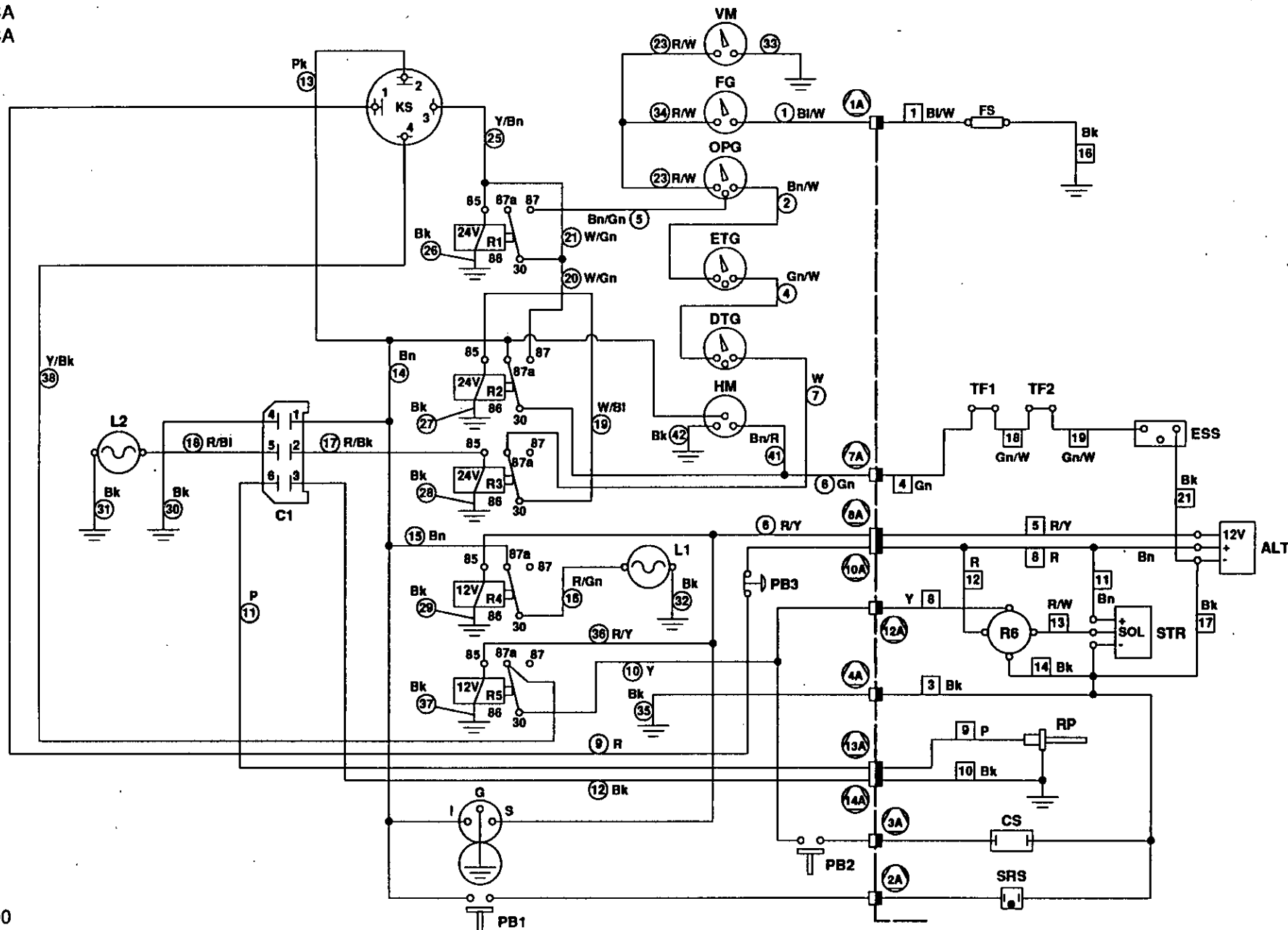
	Sizes	Nm	Size	Nm
Separator tank to truckframe	M16	190		
Spring shackles to truck frame	M16	154		
Axles to springs	M16	90		
Pintle box to truckframe	M16	150		

Revision 00
10/92

7.0

ELECTRICAL SYSTEM

XHP660 CA
XHP760 CA



T2038
Revision 00
10/92

XHP 660 CA
XHP 760 CA

KEY

VM Voltmeter
FG Gauge, Fuel
FS Fuel gauge sender
OPG Gauge, Oil pressure
ETG Gauge, Engine temperature
DTG Gauge, Discharge
temperature
HM Hourmeter
KS Key switch
R1 Relay, Over-ride
R2 Relay, Fuel stop solenoid
R3 Relay, Radolarm
R4 Relay, Alternator charge
R5 Relay, Start inhibit
R6 Relay, Engine start
PB1 Push button 1. Start-Run
PB2 Push button 2. Cold start
PB3 Push button 3. Reset
C1 Connector, Radolarm unit
L1 Lamp, No charge
L2 Lamp, Engine temperature
TF1 Thermal fuse, Discharge
pipe.
TF2 Thermal fuse, Separator
tank
ESS Engine stop solenoid
ALT Alternator
STR Starter motor
RP Radolarm probe
CS Cold start device
SRS Start/Run solenoid

 Wire number

 Wire number-engine wiring

 Multipole connector

 Pin No. in multipole
connector

Revision 00
10/92

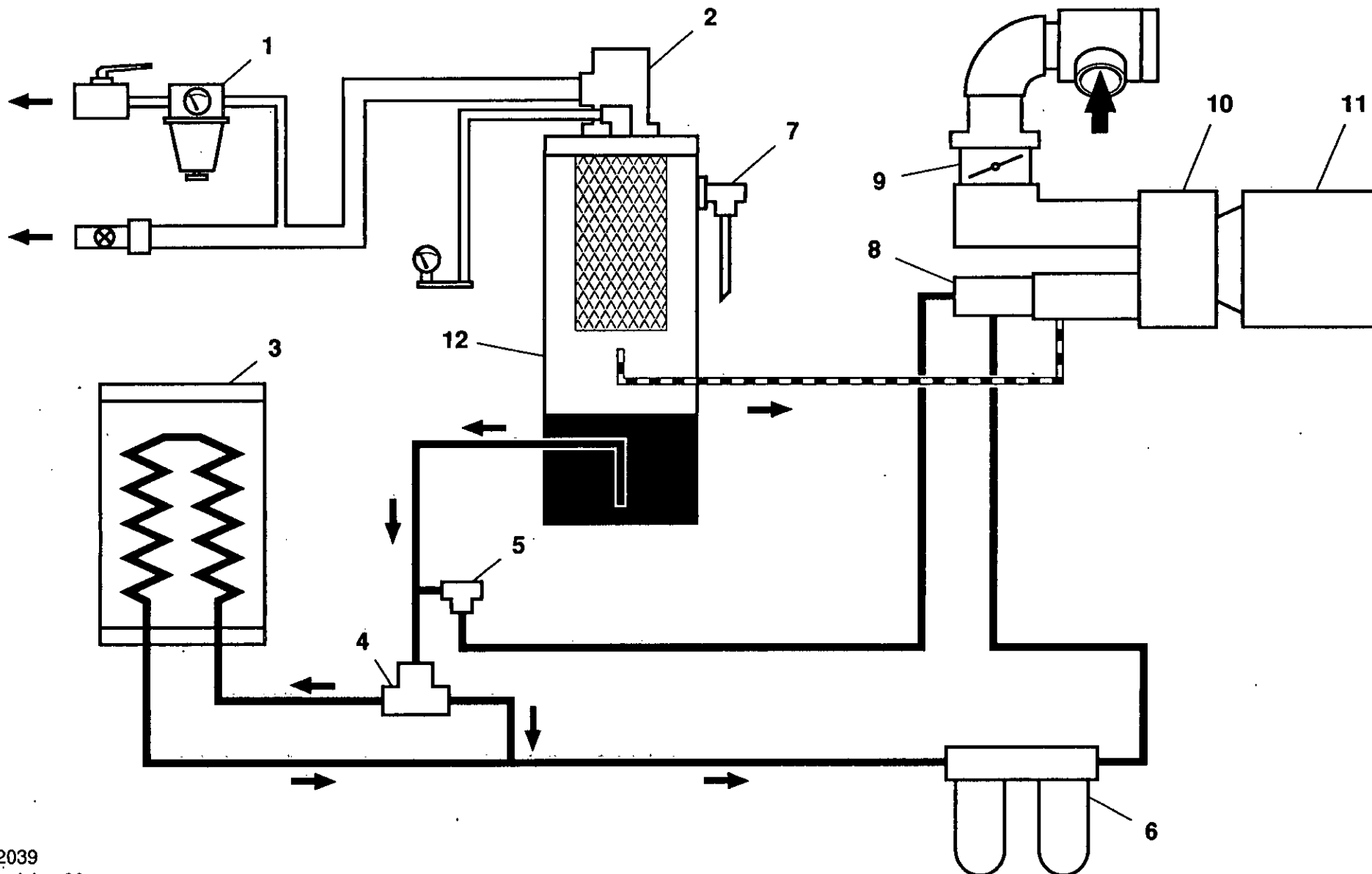
7.1

MACHINE SYSTEMS Electrical system

7.2

OIL / AIR SYSTEM

XHP660 CA
XHP760 CA



T2039
Revision 00
10/92

7.3

MACHINE SYSTEMS Oil/Air system

XHP 660 CA
XHP 760 CA

1	PRESSURE REDUCER	1		1	
2	MINIMUM PRESSURE VALVE	2		2	
3	OIL COOLER	3	REFRIGERANT D'HUILE	3	OLIEKOELER
4	TEMPERATURE BYPASS VALVE	4		4	
5	OIL PRESSURE BYPASS VALVE	5		5	
6	OIL FILTER	6	FILTRE D'HUILE	6	ÖLFILTER
7	SAFETY VALVE	7	SOUPAPE DE SÉCURITÉ	7	SICHERHEITSVENTIL
8	OIL PUMP	8		8	
9	BUTTERFLY VALVE	9		9	
10	COMPRESSOR	10	COMPRESSEUR	10	KOMPRESSOR
11	ENGINE	11		11	
12	SEPARATOR TANK	12	RÉSERVOIR SÉPARATEUR	12	AFSCHEIDERTANK
				12	ABSCHIEDEBEHÄLTER

 OIL
 AIR
 OIL/AIR

 HUILE
 AIR
 HUILE/AIR

 OLIE
 LUCHT
 OLIE/LUCHT

 ÖL
 LUFT
 ÖL/LUFT

8.0

FAULT FINDING

XHP 660 CA
XHP 760 CA

FAULT	CAUSE	CHECK AND REMEDY
Engine fails to start (Starter not operating)	Low battery voltage. Circuit breaker out.	Check battery connections & re-charge battery if necessary Press in re-set button.
Engine fails to start (Starter motor operating)	Loose wire to stop solenoid. Fuseable plug blown. Faulty stop solenoid. Fuel starvation. Air in fuel system. Faulty start switch	Check wiring. Check fuseable plugs on top of separator tank, and in discharge pipe. Check stop solenoid. Manually pump fuel until fuel pressure gauge shows green. Bleed fuel system to injectors, while operating manual lift pump. Check switch.
Engine stops when key switch is released.	Low engine oil pressure. Low water level. Faulty wiring. Faulty relay. Faulty key switch.	Check oil level. Check for blocked oil filter. Check if low water lamp is extinguished. Check wiring circuit. Check relays. Check key switch.
Engine stops	No fuel Water in fuel system. High discharge temperature. High water temperature. Low engine oil pressure. Faulty wiring. Faulty relay.	Check level in tanks, and fuel filters. Check water trap and clean if required. Check discharge temperature gauge. Check water temperature gauge. Check oil level. Check for blocked oil filter. Check switchgauge. Check wiring circuit for loose connections. Check relay in holder. replace if necessary.
Machine goes to full pressure when started.	Butterfly valve set incorrectly.	Reset butterfly valve. (See MAINTENANCE, Speed and pressure regulation adjustment).
Machine fails to load when Start/Run button is pressed.	Faulty Run solenoid.	Change solenoid.. Check electrical circuit by feeling for movement whilst depressing Start/Run button.

XHP 660 CA
XHP 760 CA

FAULT	CAUSE	CHECK AND REMEDY
Safety valve relieves.	Incorrectly set butterfly valve. Incorrectly set pressure regulator. Loose pipe/hose connections. Faulty safety valve.	Reset butterfly valve. (See MAINTENANCE, Speed and pressure regulation adjustment). Check pressure regulator actuating pressure. Check all connections. Check relieving pressure. Replace valve if faulty. Do not attempt a repair
Oil is emitted from the compressor air filter.	Incorrect stopping procedure. Faulty discharge check valve. Machine stalls when required to idle.	Always employ correct stopping procedure. Close discharge valve and allow machine to run on idle before stopping. Dismantle, valve from discharge pipe and check operation. Check operation of regulation system. Check and adjust idle speed if neccessary.
Excessive compressor oil temperature.	Low oil level. Blocked oil cooler fins. Faulty temperature bypass valve. Faulty oil pump Reduced cooling air from fan.	Check oil level, and replenish to top of green sector in sight glass. Clean cooling fins with compressed air or steam, while machine is stopped. Use only reduced pressure for cleaning fins. Check bypass valve. (See MAINTENANCE, Protective shutdown system). Check oil pump drive coupling. Check fan and belts. Check for obstruction inside cowl.
Excessive engine water temperature.	Low water level. Blocked radiator fins. Reduced cooling air from fan Faulty thermostat.	Check and replenish. Clean cooling fins with compressed air or steam while machine is stopped. Use only reduced pressure for cleaning fins. Check fan and belts. Check for obstruction inside cowl. Check and replace if neccessary.

Revision 00
10/92

8.1

FAULT FINDING

8.2

FAULT FINDING

XHP 660 CA
XHP 760 CA

FAULT	CAUSE	CHECK AND REMEDY
Low CFM	Blocked air filters. Air leak in pressure system. Low engine speed.	Replace filter elements. Trace leak and rectify. Test engine speed with tachometer. Reset air cylinder if neccessary. (See MAINTENANCE, Speed and pressure regulation adjustment). (See MAINTENANCE, Speed and pressure regulation adjustment).
	Incorrectly set regulation system.	
Excessive oil in discharge air.	Clogged scavenge orifice.	Dismantle and clean scavenge orifice and drop tube.
	Defective separator element.	Remove element and check for damage. Replace if neccessary.
	Defective minimum pressure valve.	Check minimum pressure valve. Pressure should be a minimum of 150 psi.
Low engine RPM	Blocked air filter. Restricted fuel filters. Premature unloading. Engine or airend malfunctioning.	Clean or replace element. Clean filter and replace elements. Check regulation and operation of air cylinder. Reduce operating pressure to see if engine speed increases.



USE ONLY GENUINE INGERSOLL-RAND PARTS

N'UTILISER QUE LES VERITABLES PIECES DETACHEES INGERSOLL-RAND

GEBRUIK ALLEEN ORIGINELE ONDERDELEN VAN INGERSOLL-RAND

NUR ORIGINAL-INGERSOLL-RAND-ERSATZTEILE VERWENDEN

9.0

OPTIONS

XHP 660 CA
XHP 760 CA

XHP 660 CA
XHP 760 CA

Revision 00
10/92

9.1

OPTIONS

INGERSOLL-RAND

**XHP660
XHP760
PORTABLE COMPRESSOR**

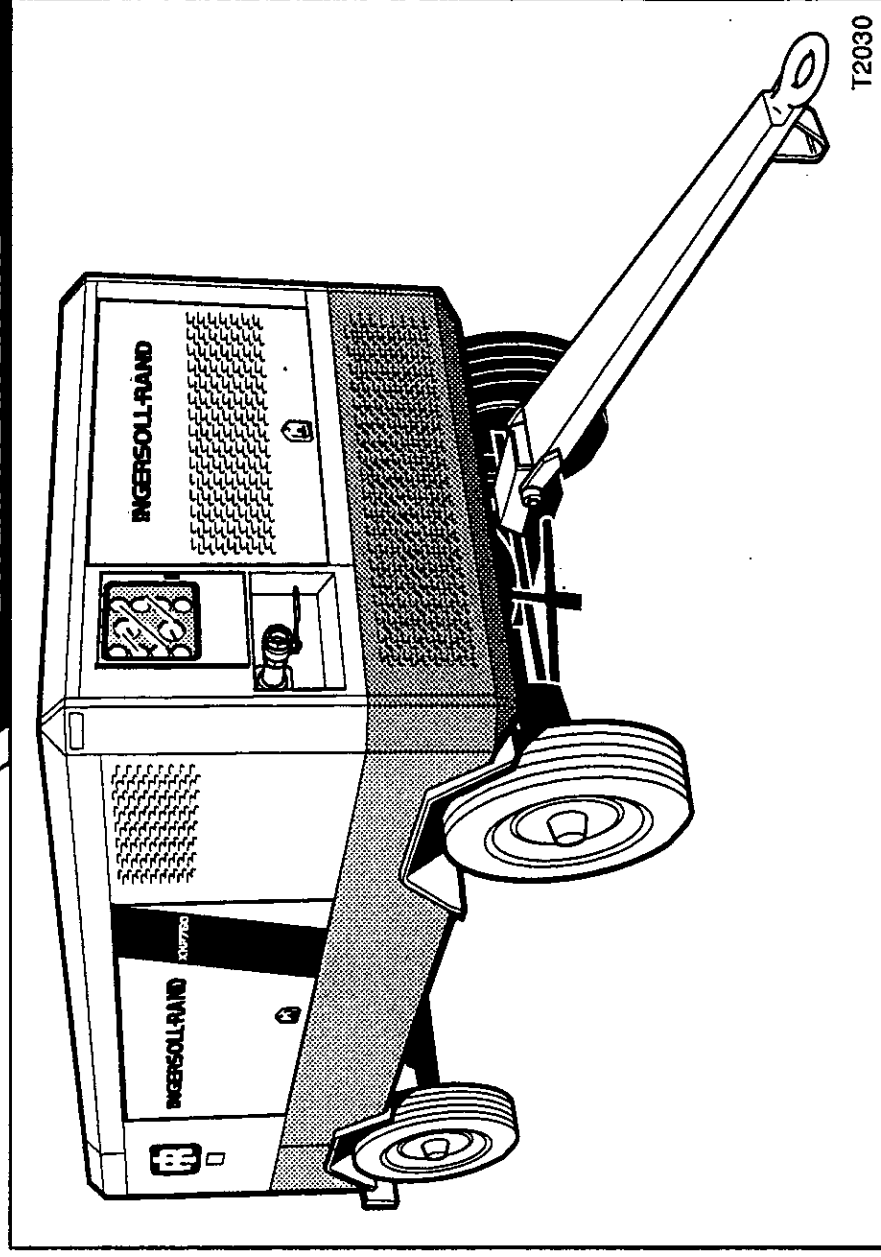
CATERPILLAR ENGINE

PARTS CATALOGUE

CATALOGUE DE PIÈCES DÉTACHÉES

ONDERDELENKATALOGUS

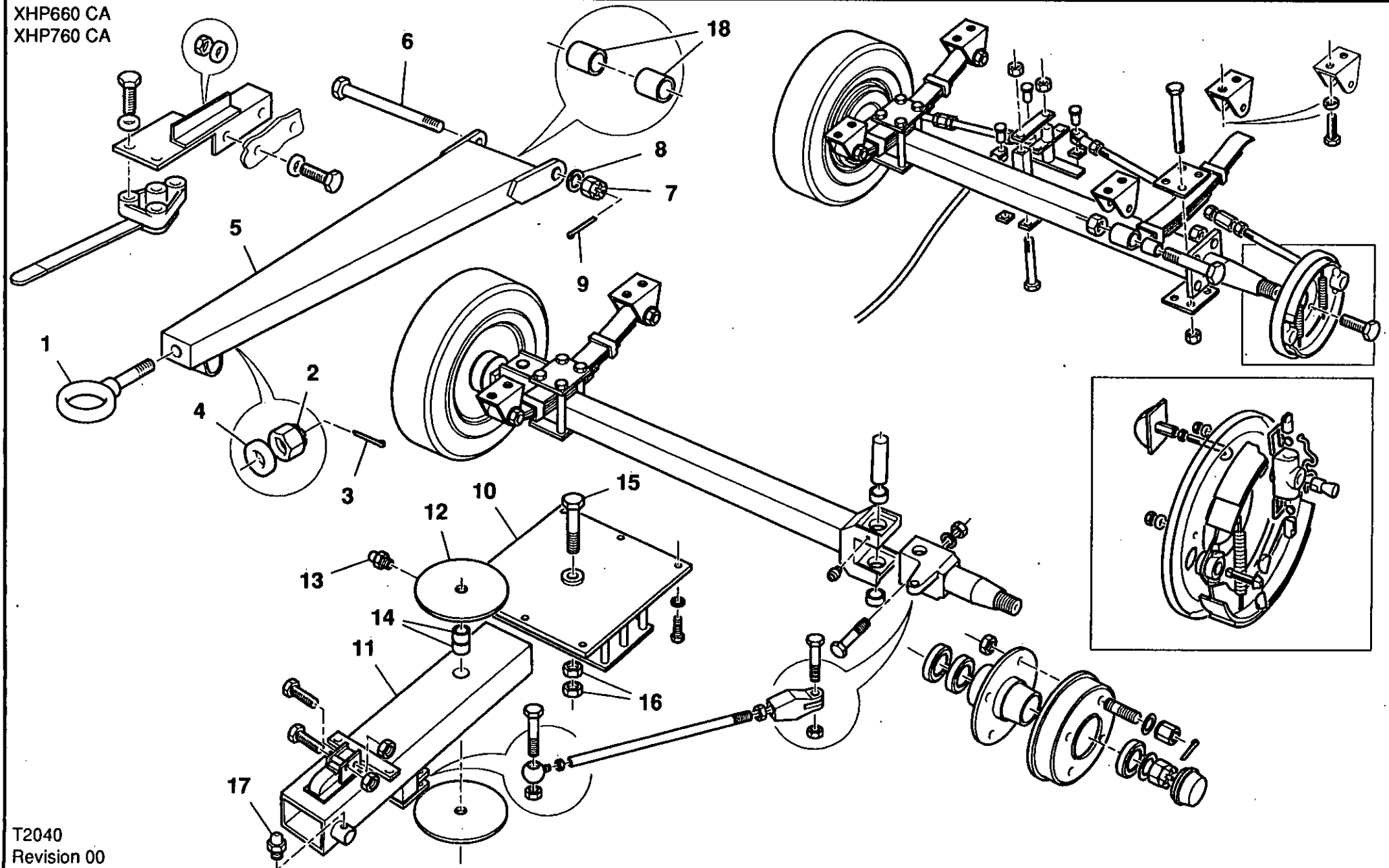
ERSATZTEILLISTE



10.0.0

RUNNING GEAR -UNBRAKED

XHP660 CA
XHP760 CA



T2040
Revision 00
10/92

	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA							
XHP 660 CA	1	92299916	1	Eye			
	1A	92042688	1	Eye			
	2	92299924	1	Nut	Ecrou	Moer	Mutter
	3	92299940	1	Pin			
	4	92299932	1	Washer	Rondelle	Ring mo	Unterlegscheibe
	5	92302678	1	Drawbar			
	5A	92070903	1	Drawbar			
	6	92302686	1	Bolt		Bout	
	7	92299973	1	Nut	Ecrou	Moer	Mutter
	8	92299981	1	Washer	Rondelle	Ring mo	Unterlegscheibe
	9	92299999	1	Pin			
	10	92042738	1	Pintle box (complete)			
	11	92042746	1	Body			
	12	92042753	1	Swivel plate			
	13	92096247	4	Nipple		Nippel	
	14	92042761	2	Bush	Palier	Bus	Hülse
	15	92042779	1	Bolt		Bout	
	16	92042787	2	Locknut	Ecrou	Borgmoer	
	17	92302058	3	Nipple		Nippel	
	18	92302975	2	Bush	Palier	Bus	Hülse

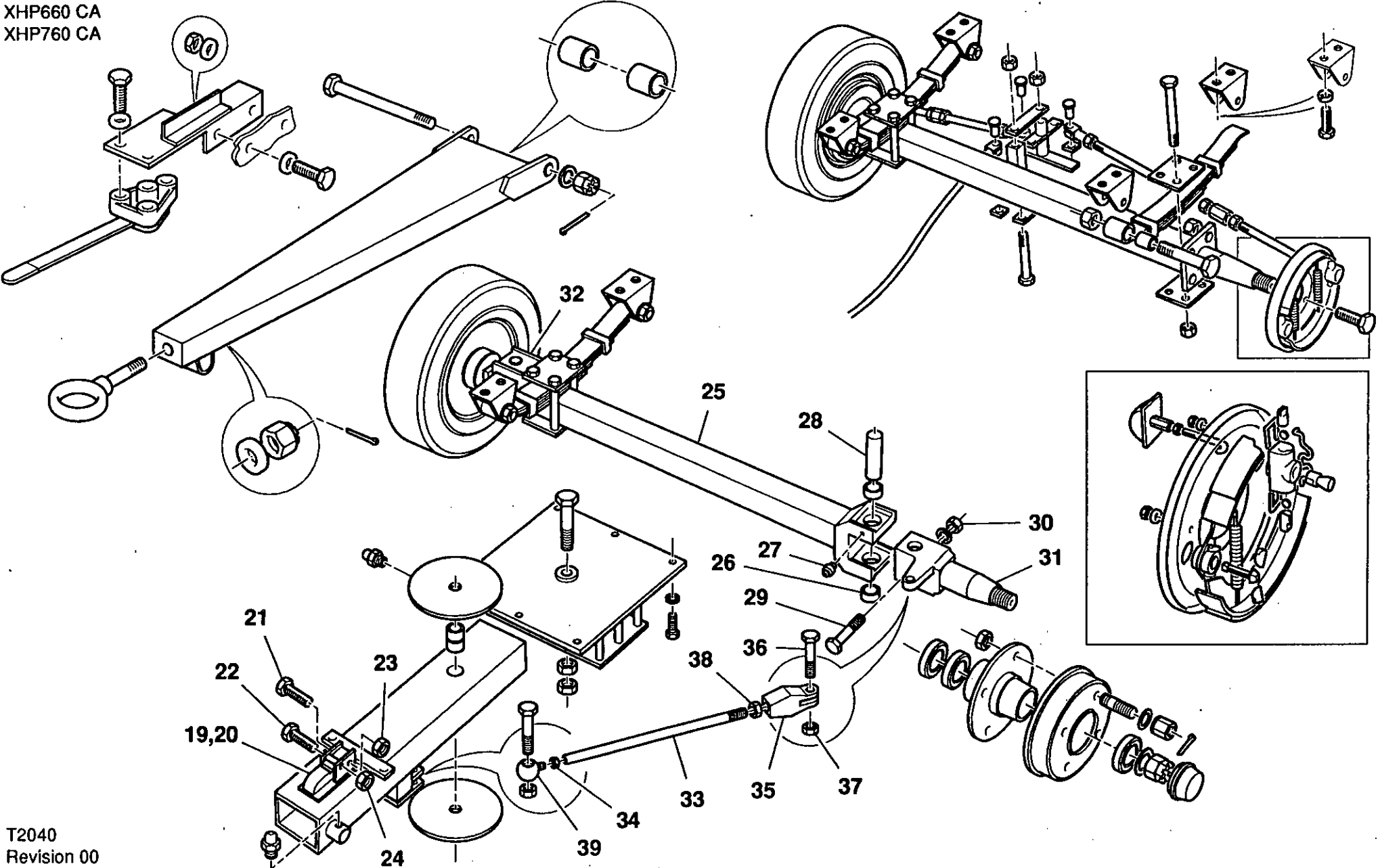
Revision 00
10/92

10.0.1

RUNNING GEAR
- UNBRAKED

10.0.2

XHP660 CA
XHP760 CA



T2040
Revision 00
10/92

XHP 760 CA
XHP 660 CA

Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
19	92302009	1	Latch	Verrou	Sluiting	Klinke
20	92301993	1	Spring	Ressort	Veer	Feder
21	95325239	1	Setscrew	Vis	Intelschroef	Sartschrause
22	92302637	1	Setscrew	Vis	Intelschroef	Sartschrause
23	95077764	1	Nut	Ecrou	Moer	Mutter
24	92274828	1	Nut	Ecrou	Moer	Mutter
25	92960343	1	Beam			
26	92302736	4	Bush	Palier	Bus	Hülse
27	92302058	4	Nipple		Nippel	
28	92302744	2	Pin			
29	92302116	4	Bolt		Bout	
30	95077798	4	Nut	Ecrou	Moer	Mutter
31	92960350	1	Stub axle LH			
32	92960368	1	Stub axle RH			
33-39	92950351	1	Track rod assy			
33	92042837	2	Rod			
34	92042894	2	Locknut	Ecrou	Borgmoer	
35	92042845	2	Clevis			
36	95329843	2	Bolt		Bout	
37	92327212	2	Nut	Ecrou	Moer	Mutter
38	92042902	2	Locknut	Ecrou	Borgmoer	
39	92042852	2	Rose joint			

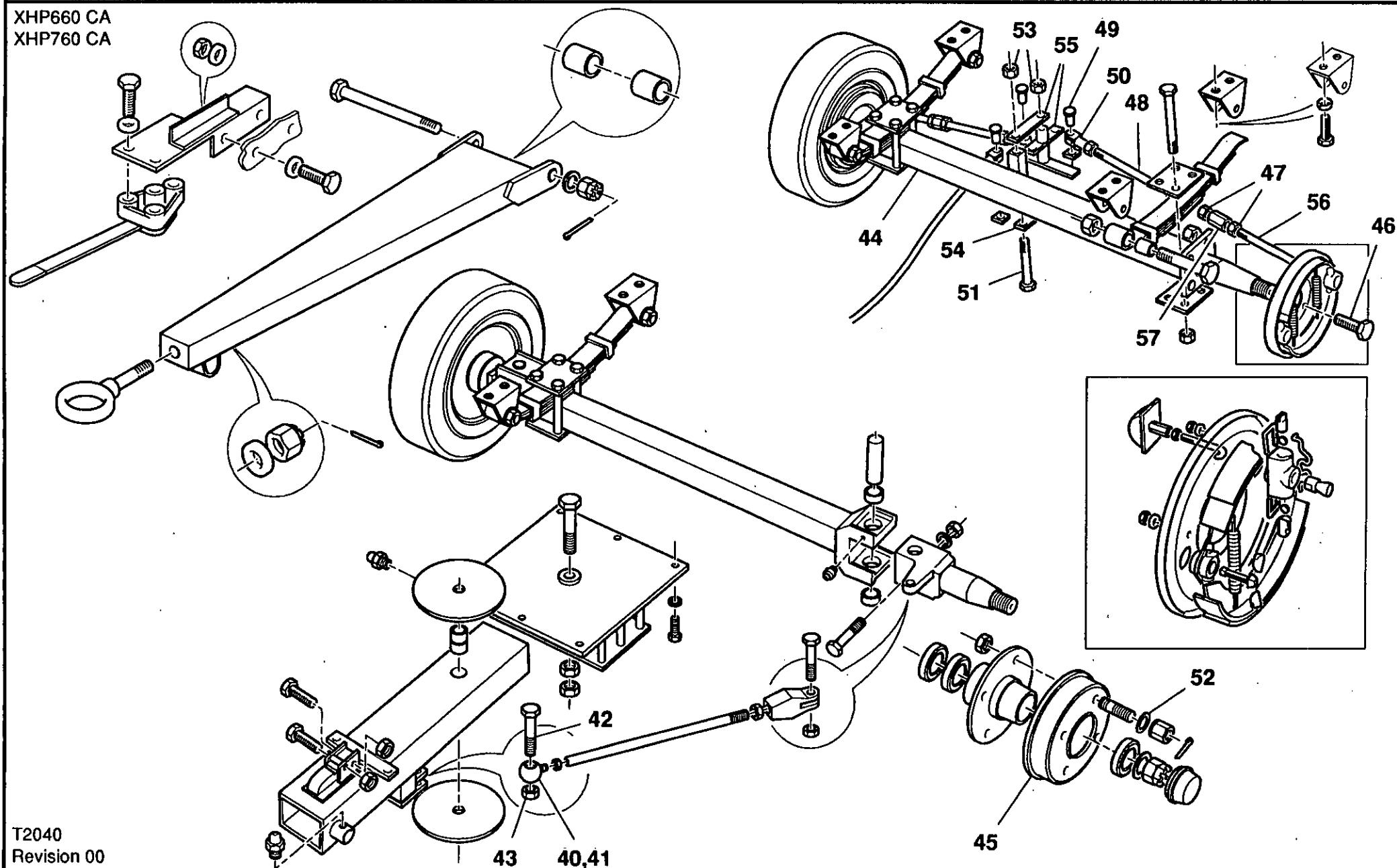
Revision 00
10/92

10.0.3 RUNNING GEAR - UNBRAKED

10.0.4

RUNNING GEAR -UNBRAKED

XHP660 CA
XHP760 CA



T2040
Revision 00
10/92

XHP 760 CA
XHP 660 CA

Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
40	92042860	4	Spacer			
41	92042878	2	Cover			
42	95644324	2	Bolt		Bout	
43	95391348	2	Nut	Ecrou	Moer	Mutter
44	92960376	1	Beam			
45	92960384	2	Drum			
46	95293743	8	Setscrew	Vis	Intelschroef	Sartschrause
47	92271550	16	Nut	Ecrou	Moer	Mutter
48	92302959	2	Rod			
49	92302546	3	Pin			
50	92302553	2	Yoke			
51	92302561	2	Setscrew	Vis	Intelschroef	Sartschrause
52	92778349	16	Collar			
53	92302579	2	Locknut	Ecrou	Borgmoer	
54	92302587	2	Link			
55	92302595	1	Lever			
56	92327618	2	Rod			
57	92327626	2	Nut	Ecrou	Moer	Mutter

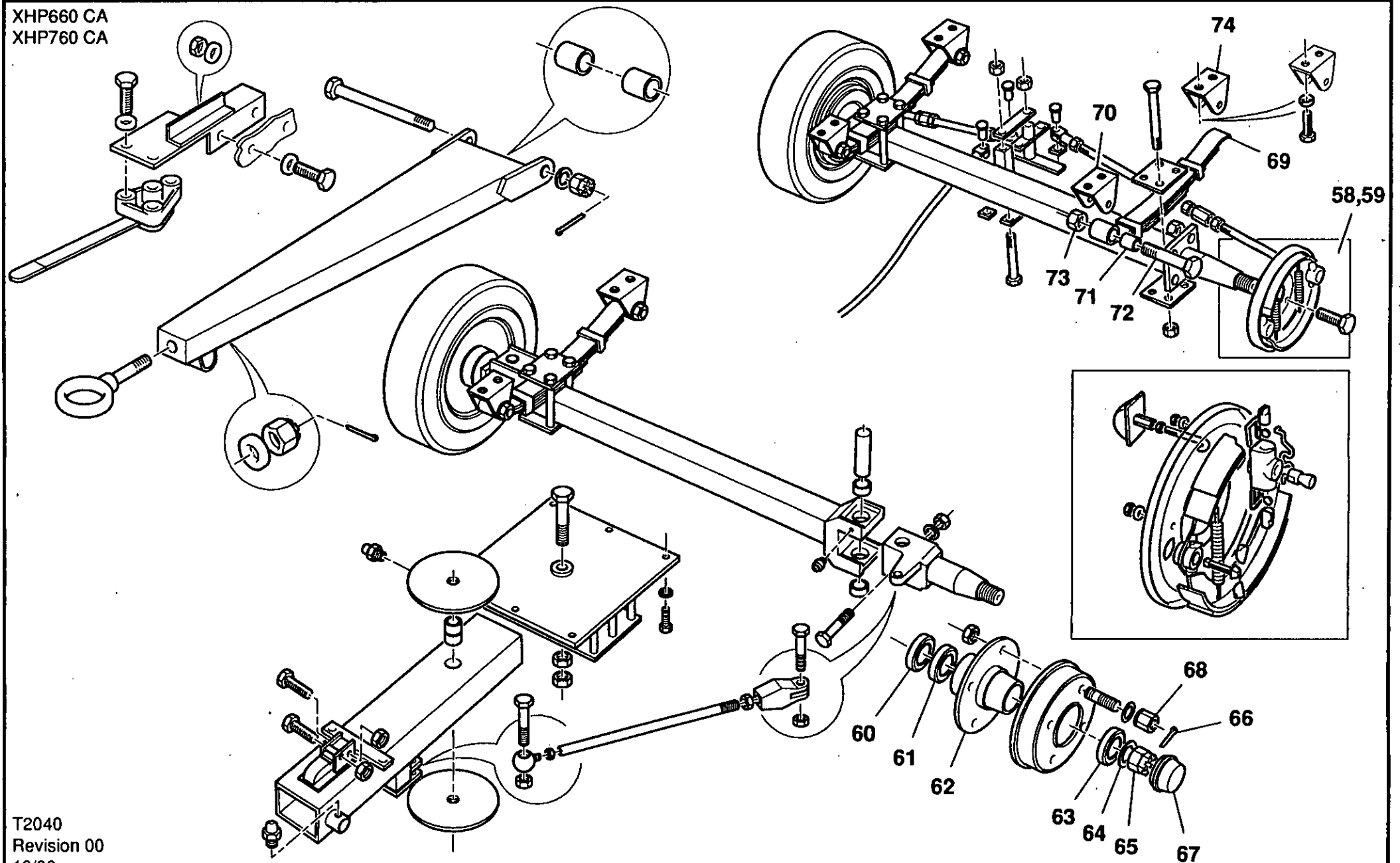
Revision 00
10/92

10.0.5 RUNNING GEAR
– UNBRAKED

10.0.6

RUNNING GEAR -UNBRAKED

XHP660 CA
XHP760 CA



T2040
Revision 00
10/92

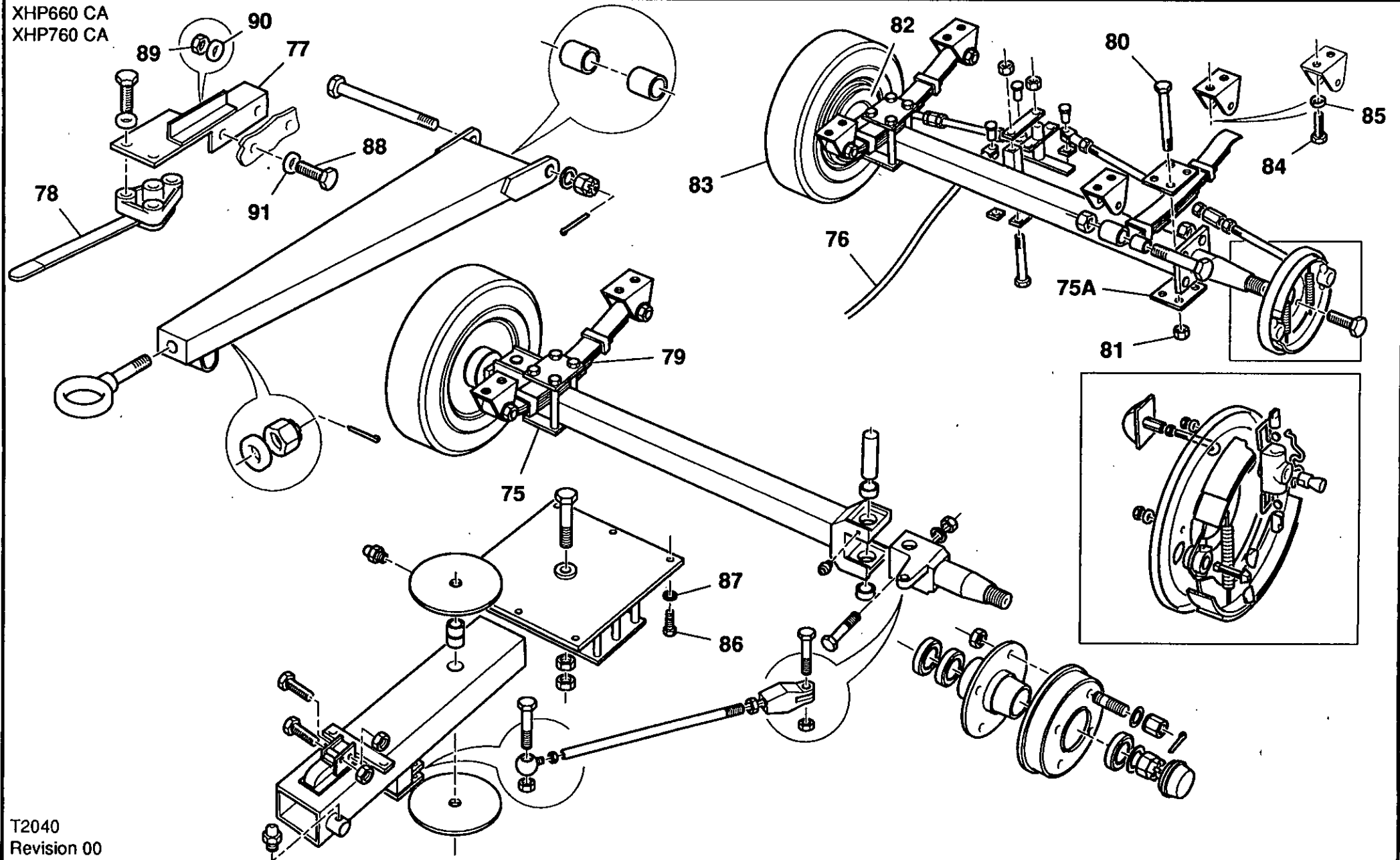
	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA							
XHP 760 CA	58	92289586	1	Brake assy RH			
	59	92414705	1	Brake assy LH			
	60	92960392	4	Seal			
	61	92960400	4	Bearing			
	62	92960418	4	Hub			
	63	92960426	4	Bearing			
	64	92960434	4	Washer	Rondelle	Ring mo	Unterlegscheibe
	65	92961895	4	Nut	Ecrou	Moer	Mutter
	66	92299999	4	Pin			
	67	92302355	4	Cap			
	68	92302793	20	Nut	Ecrou	Moer	Mutter
	69-74	92091842	1	Spring assy			
	69	92091867	4	Spring	Ressort	Veer	Feder
	70	92302405	4	Shackle			
	71	92302413	4	Bush	Palier	Bus	Hülse
	72	92302850	4	Bolt		Bout	
	73	92302868	4	Locknut	Ecrou	Borgmoer	
	74	92302447	4	Shackle			

10.0.7 RUNNING GEAR – UNBRAKED

10.0.8

RUNNING GEAR -UNBRAKED

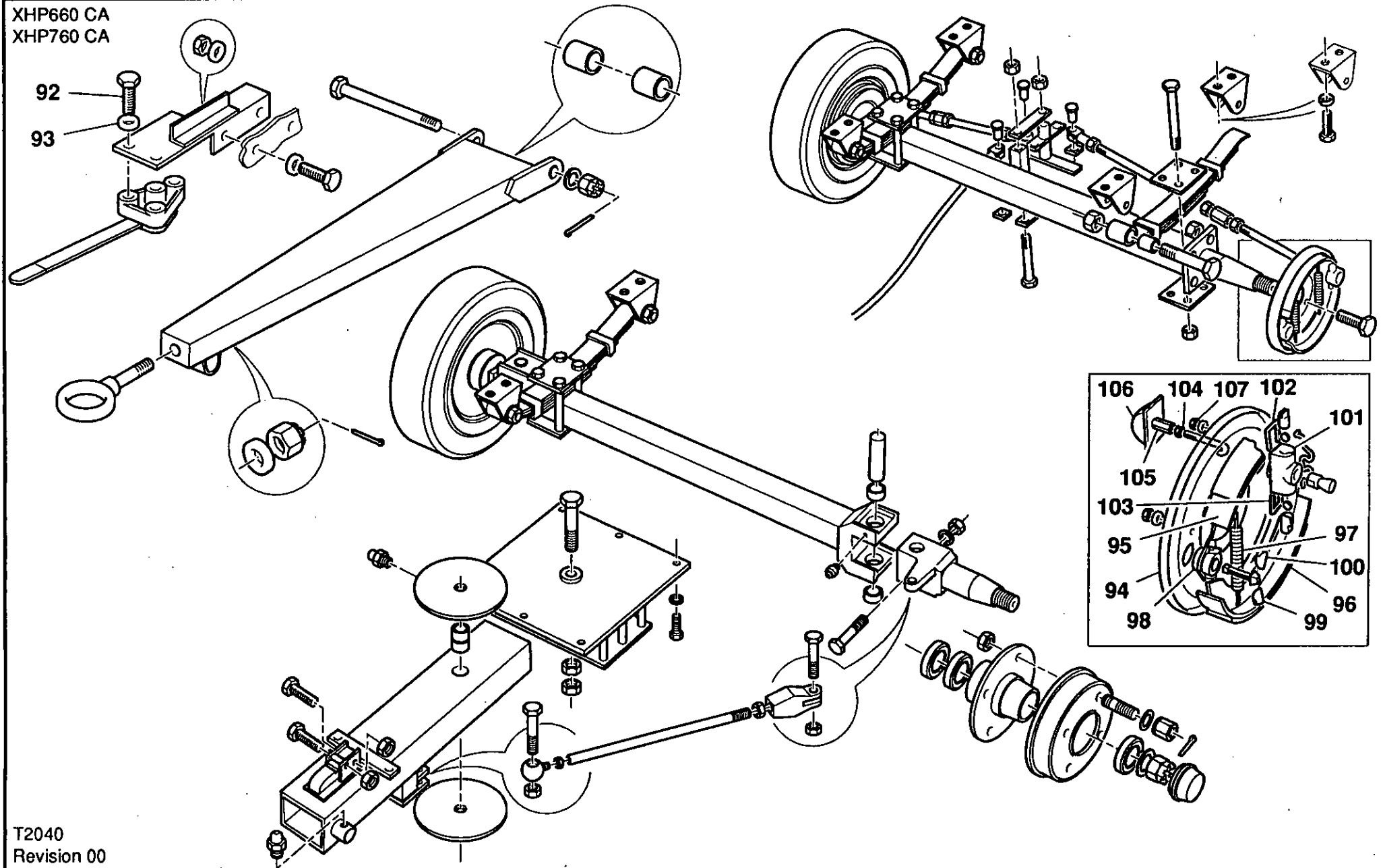
XHP660 CA
XHP760 CA



T2040
Revision 00
10/92

10.0.10 RUNNING GEAR -UNBRAKED

XHP660 CA
XHP760 CA



T2040
Revision 00
10/92

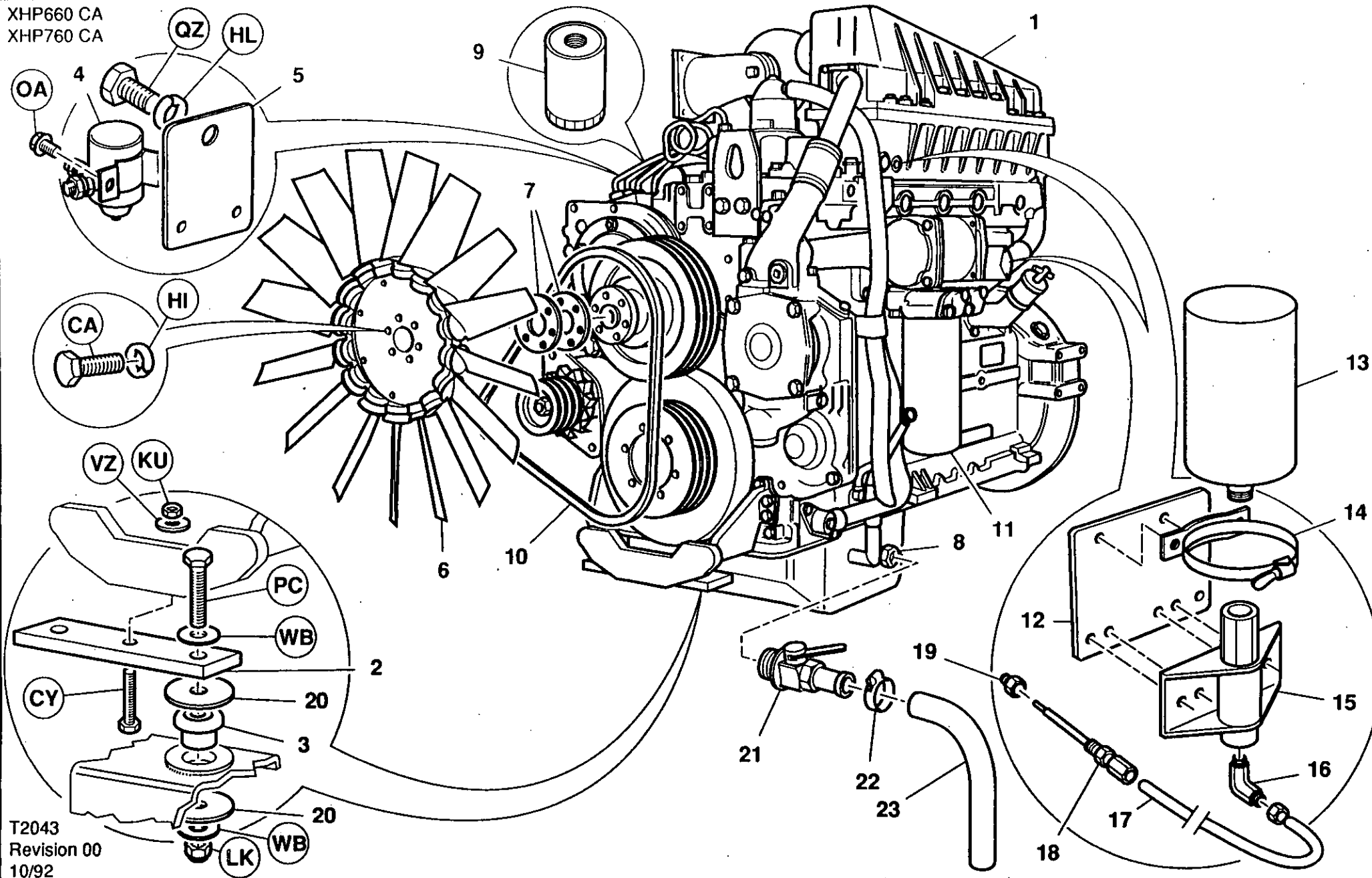
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA XHP 660 CA						
92	92304385	3	Setscrew	Vis	Intelschroef	Sartschrause
93	92304674	3	Washer	Rondelle	Ring mo	Unterlegscheibe
94	92308618	2	Backplate			
95	92308626	2	Shoe			
96	92308634	2	Shoe			
97	92309079	2	Spring	Ressort	Veer	Feder
98	92309097	2	Adjuster			
99	92309103	2	Tappet			
100	92309095	2	Tappet			
101	92309137	2	Housing	Carter	Zuigerhuis	Gehäusew
102	92309145	2	Spring	Ressort	Veer	Feder
103	92309152	2	Plate			
104	92309160	2	Locknut	Ecrou	Borgmoer	
105	92309178	2	Nut	Ecrou	Moer	Mutter
106	92309186	2	Cover			
107	92309202	4	Nut	Ecrou	Moer	Mutter

Revision 00
10/92

10.0.11 RUNNING GEAR
- UNBRAKED

10.1.0 ENGINE ASSEMBLY

XHP660 CA
XHP760 CA



T2043
Revision 00
10/92

XHP 760 CA
XHP 660 CA

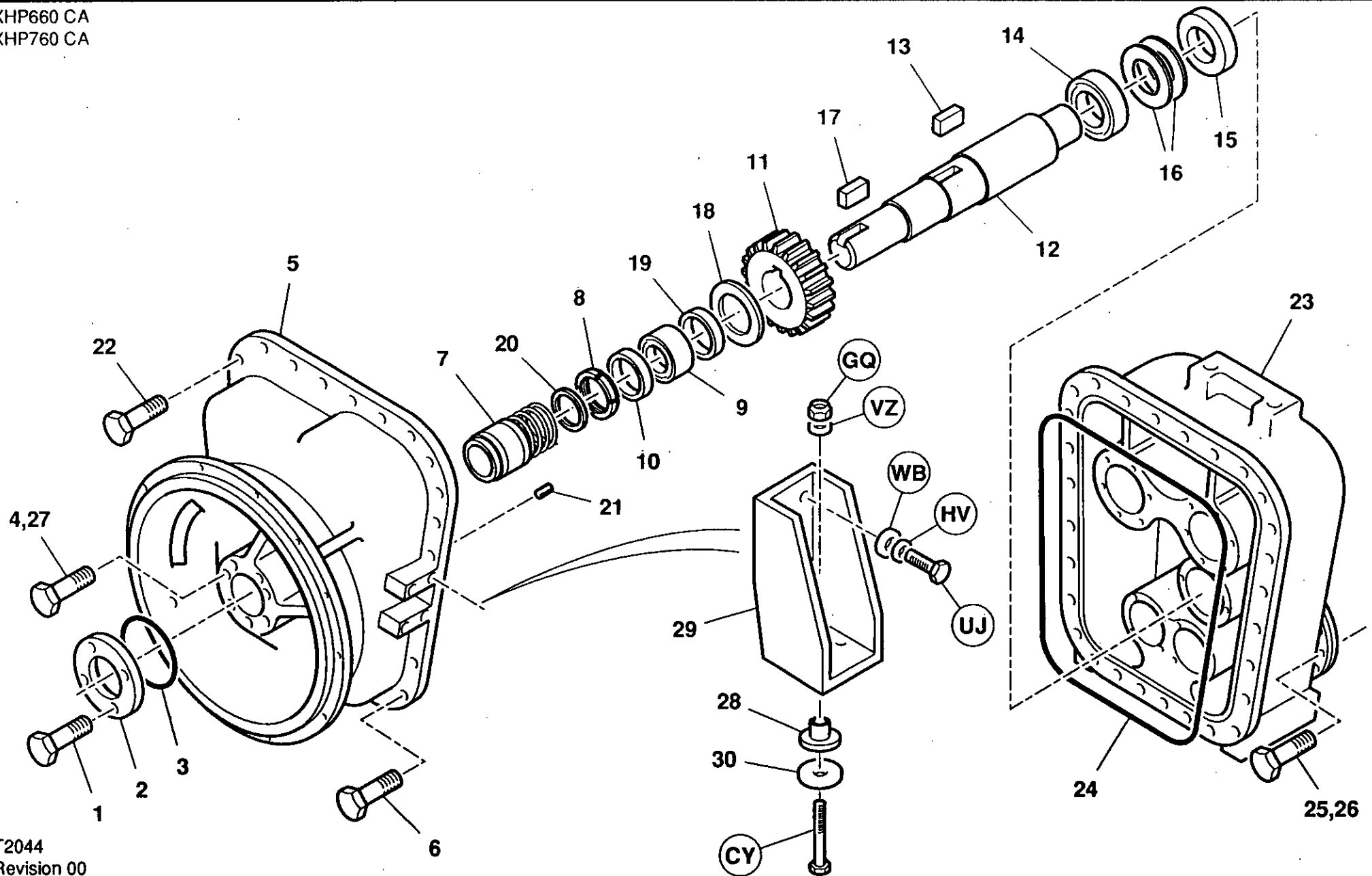
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
1	92865666	1	Engine			
2	92919497	1	Mounting bar			
3	92062157	2	Bush	Palier	Bus	Hülse
4	35577873	1	Switch			
5	92517739	1	Bracket	Support	Beugel	Stützblech
6	92893254	1	Fan	Ventilateur	Ventilator	Lüfter
7	92865518	2	Spacer			
8	92899863	1	Valve, drain			
9	92744523	1	Filter, fuel			
10	92960442	1	Belt, drive	Courroie de transmission	Snaar	Antiebsriemen
11	92658095	1	Filter, oil			
12	92955293	1	Bracket	Support	Beugel	Stützblech
13	92472397	1	Cylinder			
14	92955277	1	Clamp	Collier	Klem	Schelle
15	92955269	1	Valve	Clapet	Klep	Ventil
16	92955285	1	Elbow	Coude	Bochtstuk	Krümmer
17	92397702	1	Tube (Nylon)	Tube	Leiding	Schlauch
18	92419514	1	Atomizer			
19	92354364	1	Bush, reducing			
20	35273937	2	Washer, snubber			
21	92899863	1	Valve, drain			
22	92803998	1	Clip, hose			
23	92886399	1	Tube			

Revision 00
10/92

10.1.1 ENGINE ASSEMBLY

10.1.2 AIREND ASSEMBLY

XHP660 CA
XHP760 CA



T2044
Revision 00
10/92

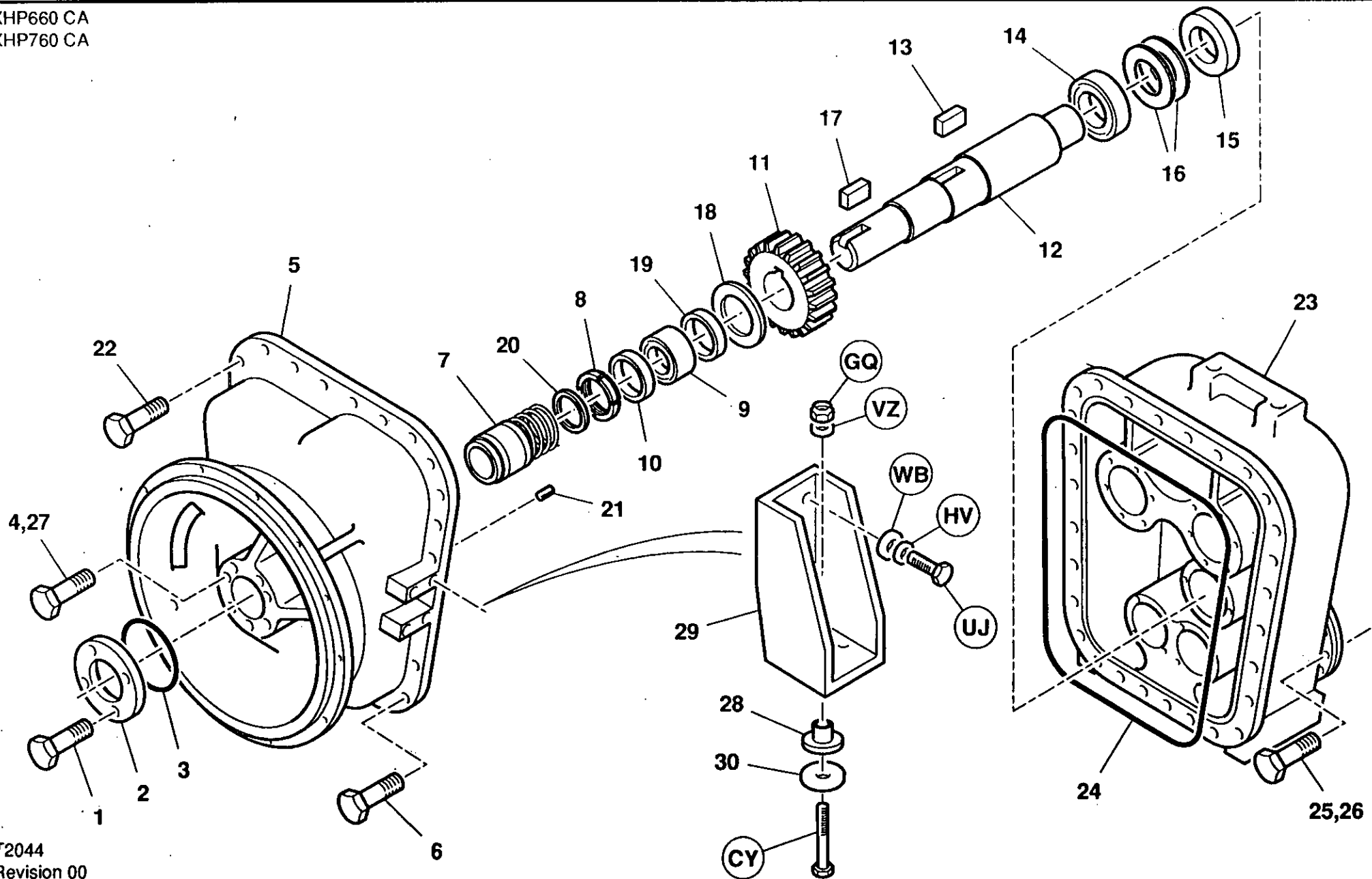
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA						
1	92304435	4	Bolt		Bout	
2	35856467	1	Cover			
3	95022372	1	'O' Ring	Joint torique	'O' Ring	'O' Ring
4	35361286	3	Bolt		Bout	
5	36750909	1	Gearcase			
6	35318146	18	Bolt		Bout	
7	35593516	1	Seal			
8	35104082	1	Locknut	Ecrou	Borgmoer	
9	35610195	1	Bearing			
10	35372002	1	Spacer			
11	36763183	1	Gear-set (XHP 760)			
11	36746410	1	Gear-set (XHP 660)			
12	36504116	1	Driveshaft			
13	35355809	1	Key	Clef	Spie	Schlüssel
14	35610203	1	Bearing			
15	35372010	1	Spacer			
16	35372028	1	Set, shim			

Revision 00
10/92

10.1.3 AIREND ASSEMBLY

10.1.4

AIREND ASSEMBLY



T2044
Revision 00
10/92

XHP 760 CA
XHP 660 CA

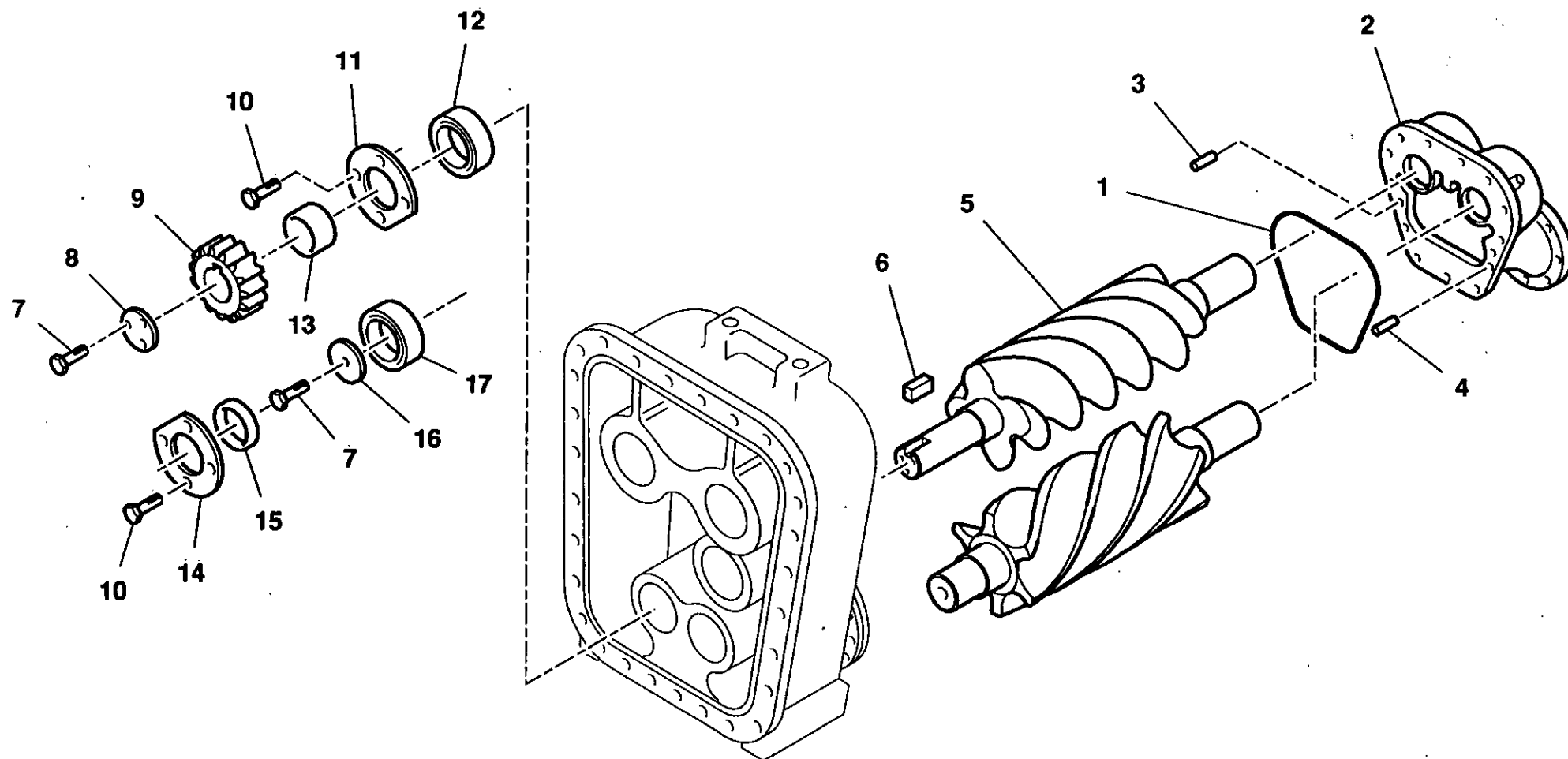
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
17	35364975	1	Key	Clef	Spie	Schlüssel
18	35610153	1	Plate, retaining			
19	35371996	1	Spacer			
20	35337583	1	Spacer			
21	35336122	1	Dowel			
22	35272541	1	Bolt		Bout	
23	36737161	1	Housing	Carter	Zuigerhuis	Gehäusew
24	35355775	1	'O' Ring	Joint torique	'O' Ring	'O' Ring
25	35271139	1	Bolt		Bout	
26	35272533	1	Bolt		Bout	
27	39101449	1	Plug	Bouchon	Plug	Stopfen
28	92062157	2	Mount			
29	92893114	2	Bracket	Support	Beugel	Stützblech
30	35273937	2	Washer, snubber			

Revision 00
10/92

10.1.5 AIREND
ASSEMBLY

10.1.6 AIREND ASSEMBLY

XHP660 CA
XHP760 CA



T2045
Revision 00
10/92

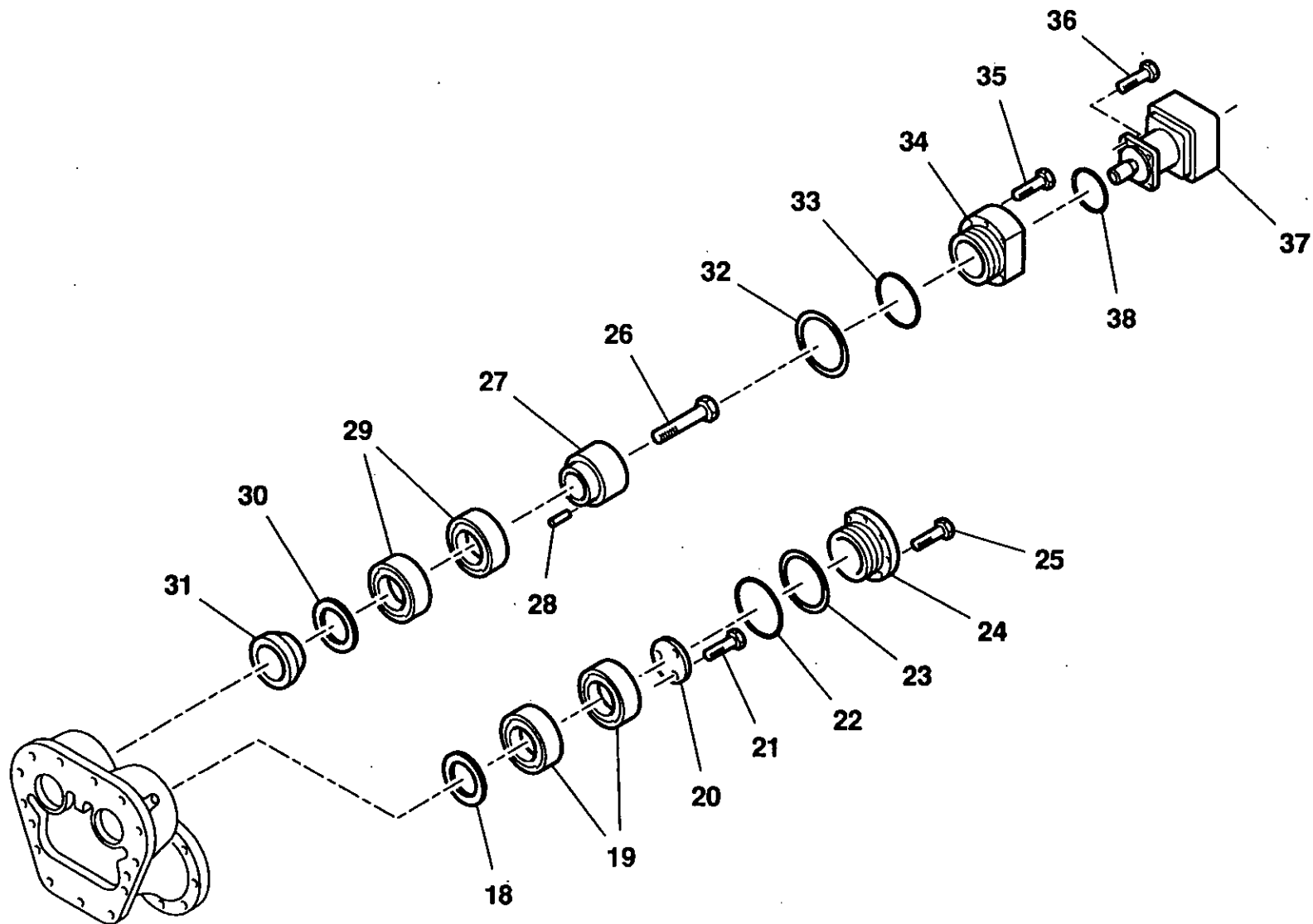
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA XHP 660 CA						
1	35355791	1	'O' Ring	Joint torique	'O'Ring	'O'Ring
2	36738128	1	Housing	Carter	Zuigerhuis	Gehäusew
3	35336122	1	Dowel			
4	35336130	1	Dowel			
5	35088954	1	Set, rotor			
6	35355817	1	Key	Clef	Spie	Schlüssel
7	35311463	4	Bolt		Bout	
8	35300193	1	Plate			
9	36763183	1	Gear-set (XHP 760)			
9	36746410	1	Gear-set (XHP 660)			
10	35273408	8	Bolt		Bout	
11	35355965	1	Plate, retaining			
12	35600022	1	Bearing			
13	35355866	1	Spacer			
14	35355999	1	Plate, retaining			
15	35355973	1	Spacer			
16	35300201	1	Plate			
17	35600014	1	Bearing			

Revision 00
10/92

10.1.7 AIREND ASSEMBLY

10.1.8 AIREND ASSEMBLY

XHP660 CA
XHP760 CA



T2058
Revision 00
10/92

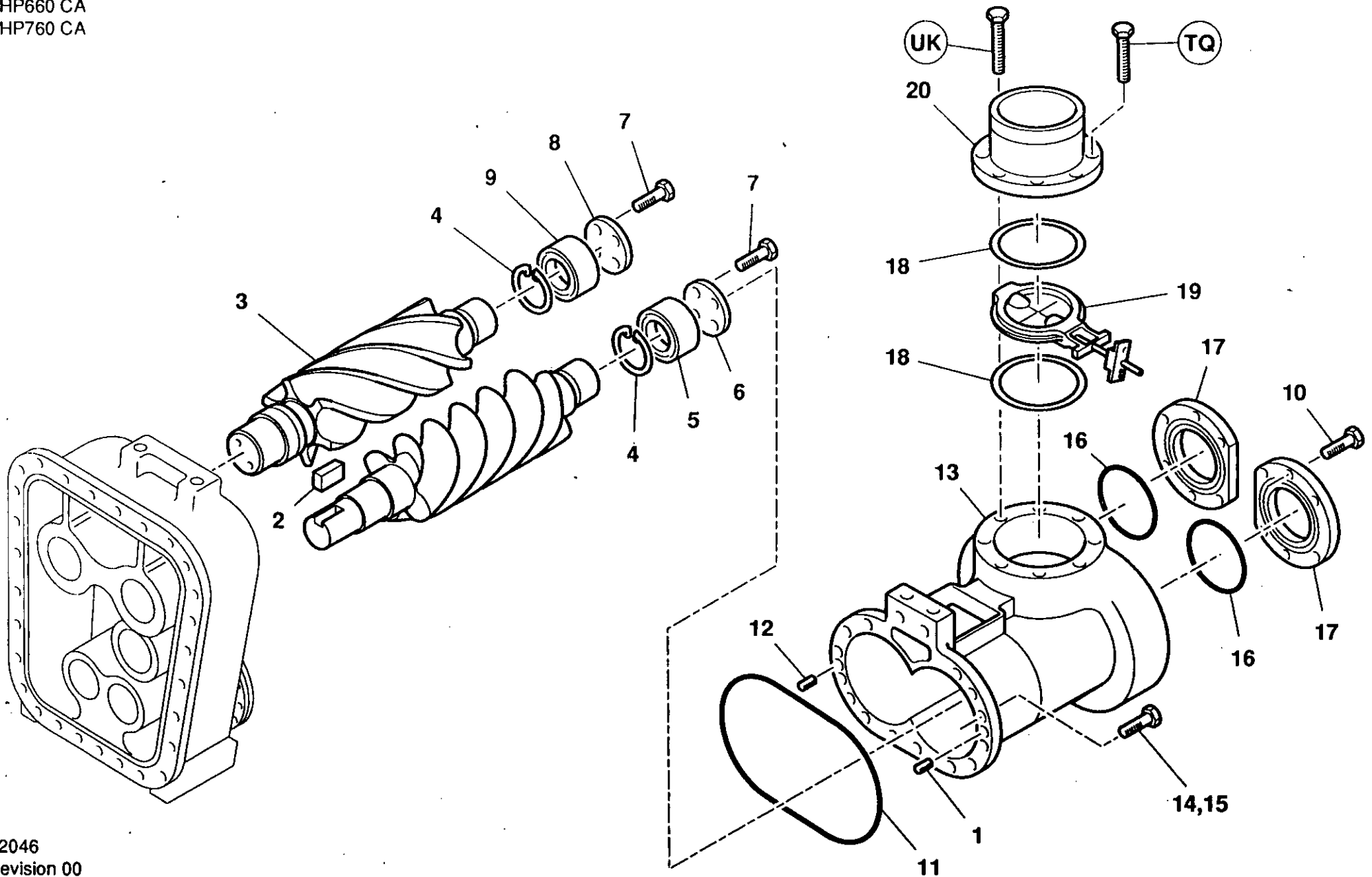
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA XHP 660 CA						
18		1	Set, shim			
19		1	Bearing			
20		1	Plate			
21		1	Bolt		Bout	
22		1	'O' Ring	Joint torique	'O'Ring	'O'Ring
23		1	Set, shim			
24		1	Cover			
25		1	Bolt		Bout	
26		1	Bolt		Bout	
27		1	Coupling			
28		1	Dowel			
29		1	Bearing			
30		1	Set, shim			
31		1	Piston	Piston	Zuiger	Kolben
32		1	Set, shim			
33		1	'O' Ring	Joint torique	'O'Ring	'O'Ring
34		1	Cover			
35		1	Bolt		Bout	
36		1	Bolt		Bout	
37		1	Oil pump			
38		1	Bolt		Bout	

Revision 00
10/92

10.1.9 AIREND ASSEMBLY

10.1.10 AIREND ASSEMBLY

XHP660 CA
XHP760 CA



T2046
Revision 00
10/92

XHP 660 CA
XHP 760 CA

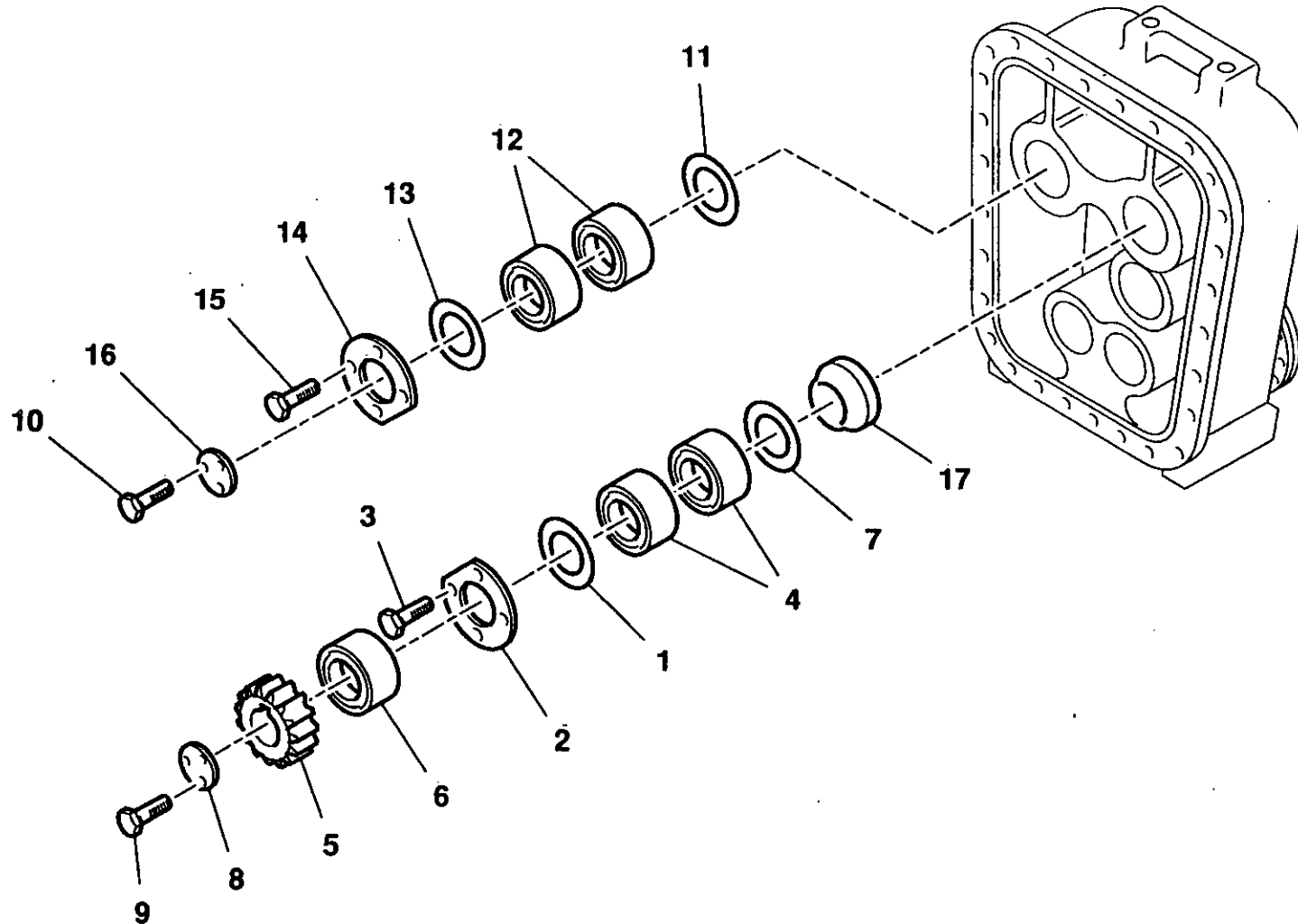
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
1	35336122	1	Dowel			
2	35355817	1	Key	Clef	Spie	Schlüssel
3	35082114	1	Set, rotor			
4	95223178	2	Cirdip			
5	35600030	1	Bearing			
6	35300193	1	Plate			
7	35311463	8	Bolt		Bout	
8	35300193	1	Plate			
9	35600022	1	Bearing			
10	92329309	12	Bolt		Bout	
11	35355783	1	'O' Ring	Joint torique	'O'Ring	'O'Ring
12	35336130	1	Dowel			
13	36738797	1	Housing	Carter	Zuigerhuis	Gehäusew
14	35356039	16	Bolt		Bout	
15	35295344	16	Bolt		Bout	
16	35355502	1	'O' Ring	Joint torique	'O'Ring	'O'Ring
17	35351883	1	Plate			
18	95214524	2	Gasket	Joint	Pakking	Dichtung
19	35285626	1	Valve	Clapet	Klep	Ventil
20	92893197	1	Flange			

Revision 00
10/92

10.1.11 AIREND
ASSEMBLY

10.1.12 AIREND ASSEMBLY

XHP660 CA
XHP760 CA



T2059
Revision 00
10/92

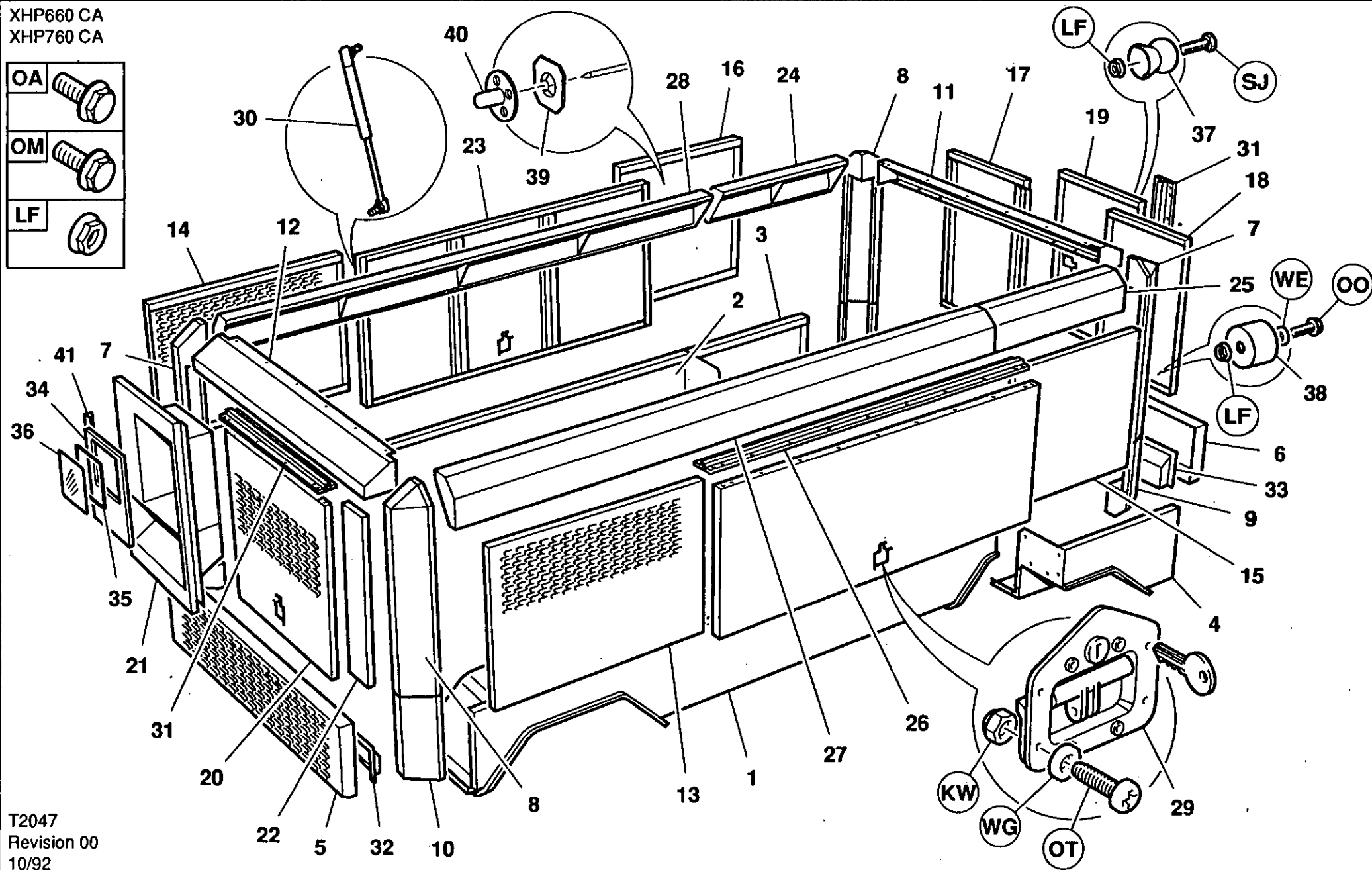
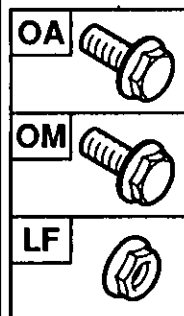
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA XHP 660 CA						
1	35355767	1	Set, shim			
2	36501013	1	Plate			
3	35271154	6	Bolt		Bout	
4	35605203	2	Bearing			
5	36763183	1	Gear-set (XHP 760)			
5	36746410	1	Gear-set (XHP 660)			
6	35355841	1	Spacer			
7	35355825	1	Set, shim			
8	35355858	1	Plate			
9	35271147	3	Bolt		Bout	
10	35311463	3	Bolt		Bout	
11	35355833	1	Set, shim			
12	35600105	2	Bearing			
13	35355767	1	Set, shim			
14	35856418	1	Plate, retaining			
15	92304393	6	Bolt		Bout	
16	35300185	1	Plate			
17	35602457	1	Piston	Piston	Zuiger	Kolben

Revision 00
10/92

10.1.13 AIREND ASSEMBLY

10.2.0 ENCLOSURE

XHP660 CA
XHP760 CA



T2047
Revision 00
10/92

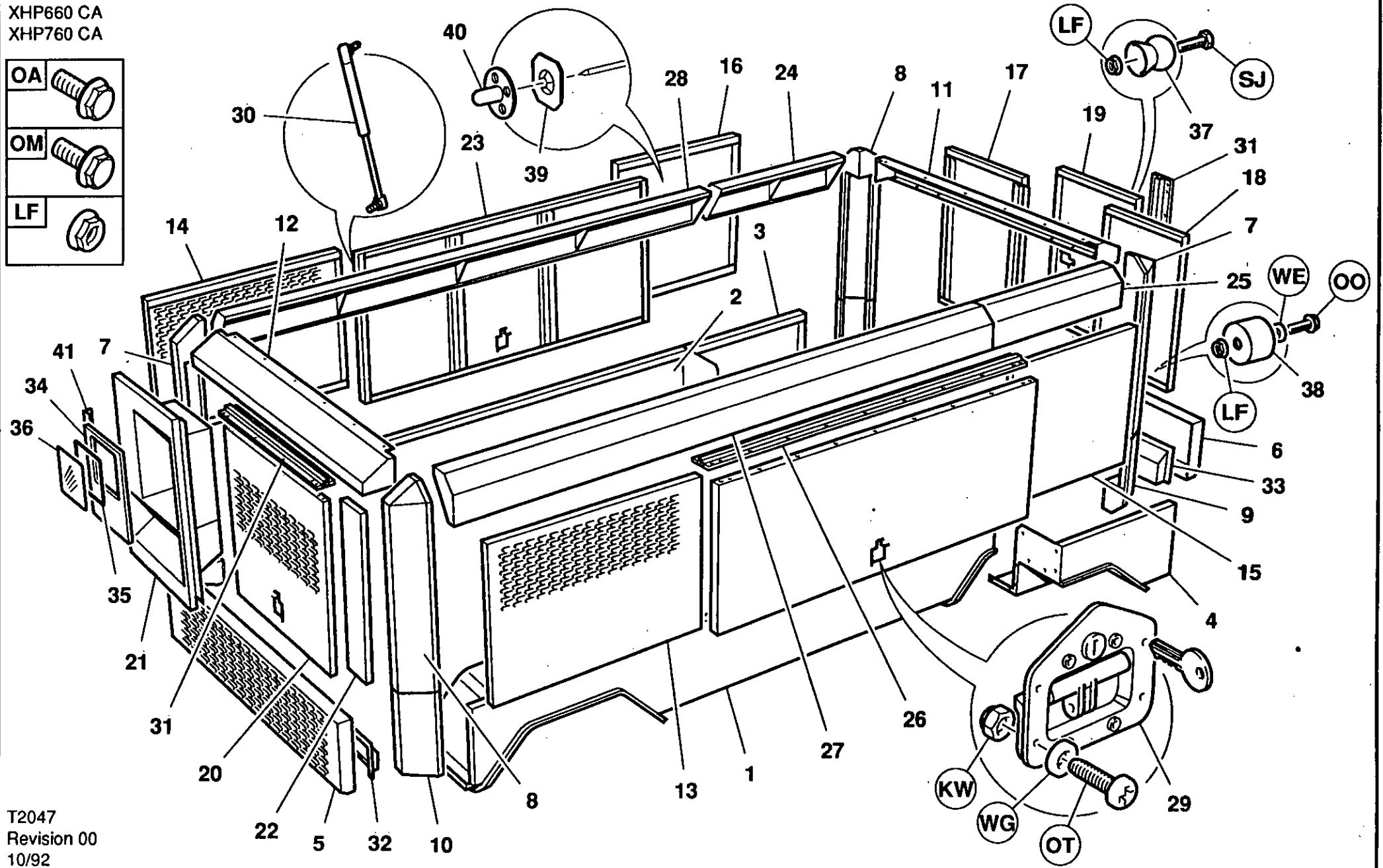
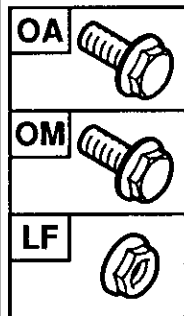
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA XHP 660 CA						
1	92893973	1	Panel LH Lower	Panneau	Paneel	Verkleidung
2	92893999	1	Panel RH Lower	Panneau	Paneel	Verkleidung
3	92893981	1	Panel LH Lower	Panneau	Paneel	Verkleidung
4	92894005	1	Panel RH Lower	Panneau	Paneel	Verkleidung
5	92923853	1	Panel Front Lower	Panneau	Paneel	Verkleidung
6	92893965	1	Panel Rear Lower	Panneau	Paneel	Verkleidung
7	92923754	2	Panel Corner Top	Panneau	Paneel	Verkleidung
8	92923739	2	Panel Corner Top	Panneau	Paneel	Verkleidung
9	92923747	2	Panel Corner Bottom	Panneau	Paneel	Verkleidung
10	92923721	2	Panel Corner Bottom	Panneau	Paneel	Verkleidung
11	92894443	1	Endcap Rear			
12	92930742	1	Endcap Front			
13	92930338	1	Panel RH Side Front	Panneau	Paneel	Verkleidung
14	92930361	1	Panel LH Side Front	Panneau	Paneel	Verkleidung
15	92930346	1	Panel RH Side Rear	Panneau	Paneel	Verkleidung
16	92930353	1	Panel LH Side Rear	Panneau	Paneel	Verkleidung
17	92898899	1	Panel Rear RH	Panneau	Paneel	Verkleidung
18	92898865	1	Panel Rear LH	Panneau	Paneel	Verkleidung
19	92898881	1	Door			
20	92923911	1	Door			
21	92923762	1	Panel, instrument	Panneau instruments	Kontrolepaneel	Armaturen Brett
22	92924133	1	Panel Front RH	Panneau	Paneel	Verkleidung
23	92898949	2	Door			

Revision 00
10/92

10.2.1 ENCLOSURE

10.2.2 ENCLOSURE

XHP660 CA
XHP760 CA



T2047
Revision 00
10/92

XHP 660 CA
XHP 760 CA

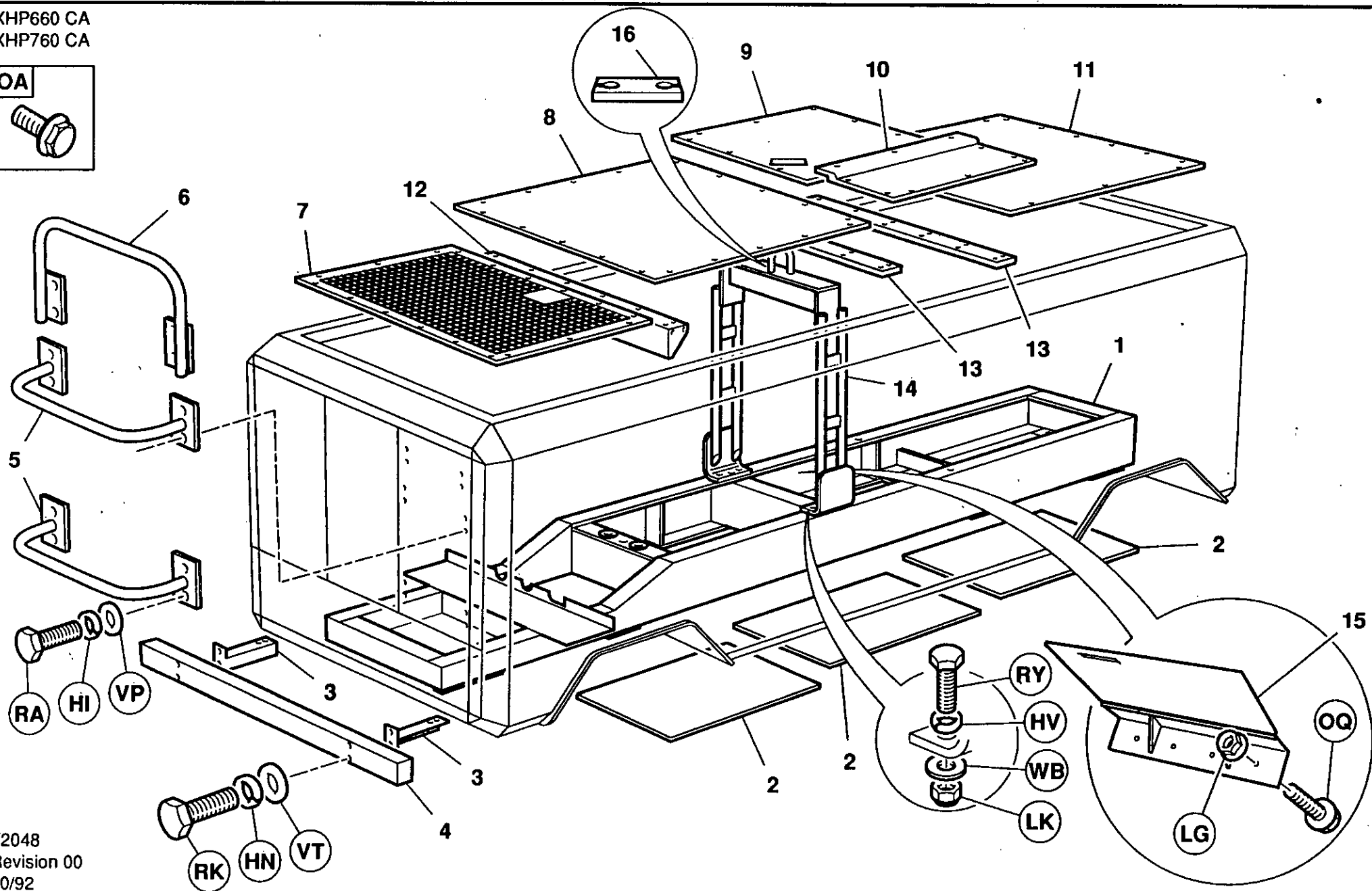
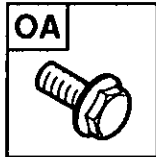
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
24	92950716	1	Panel	Panneau	Paneel	Verkleidung
25	92898923	1	Panel	Panneau	Paneel	Verkleidung
26	92912419	2	Hinge			
27	92898931	1	Panel	Panneau	Paneel	Verkleidung
28	92950708	1	Panel	Panneau	Paneel	Verkleidung
29	92816859	4	Latch	Verrou	Sluiting	Klinke
30	35584036	5	Spring, gas			
31	92912427	2	Hinge			
32	92950260	1	Panel Duct, Front	Panneau	Paneel	Verkleidung
33	92950278	1	Panel Duct, Rear	Panneau	Paneel	Verkleidung
34	92921168	1	Door			
35	35251800	1m	Seal			
36	92061811	1	Window			
37	92922863	1	Door holder (Male)			
38	92922855	1	Door holder (Female)			
39	92894542	80	Retainer			
40	92104264	80	Protector			
41	92921176	1	Hinge			

Revision 00
10/92

10.2.3 ENCLOSURE

10.2.4 ENCLOSURE

XHP660 CA
XHP760 CA



T2048
Revision 00
10/92

Item	C/PN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
1	92868850	1	Chassis			
2	92951029	3	Panel	Panneau	Panel	Verkleidung
3	92894088	2	Bracket	Support	Beugel	Stützblech
4	92912393	1	Bumper			
5	92912954	2	Step			
6	92912062	1	Handrail			
7	92898998	1	Grille			
8	92898956	1	Panel Roof, Front	Panneau	Panel	Verkleidung
9	92898964	1	Panel Roof, Centre	Panneau	Panel	Verkleidung
10	92898972	1	Panel Roof, RH	Panneau	Panel	Verkleidung
11	92898980	1	Panel Roof, Front	Panneau	Panel	Verkleidung
12	92899020	1	Support	Support		
13	92899012	2	Support	Support		
14	92893106	1	Bail, lifting			
15	92899889	1	Battery cover			
16	92899384	1	Seal			

	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA	(1-3)	92055300	1	Filter assembly			
	1	92035948	1	Element, air filter			
	2	92035955	1	Element, safety			
	3	92035963	1	Cover			
	4	92920313	1	Mount			
	5	92920321	1	Strap			
	6	92111335	1	Hose	Flexible	Slang	Schlauch
	7	92951045	1	Bracket	Support	Beugel	Stützblech
	8	95281336	1	Elbow	Coude	Bochtstuk	Krümmmer
	9	92275239	1	Clamp	Collier	Klem	Schelle
	10	92951060	1	Pipe			
	11	92952050	1	Hose	Flexible	Slang	Schlauch
	12	35264415	1	Hose	Flexible	Slang	Schlauch
	13	92951565	1	Pipe			
	14	92895473	1	Clip, hose			
	15	92472943	1	Clamp	Collier	Klem	Schelle
	16	92085995	1	Clamp	Collier	Klem	Schelle

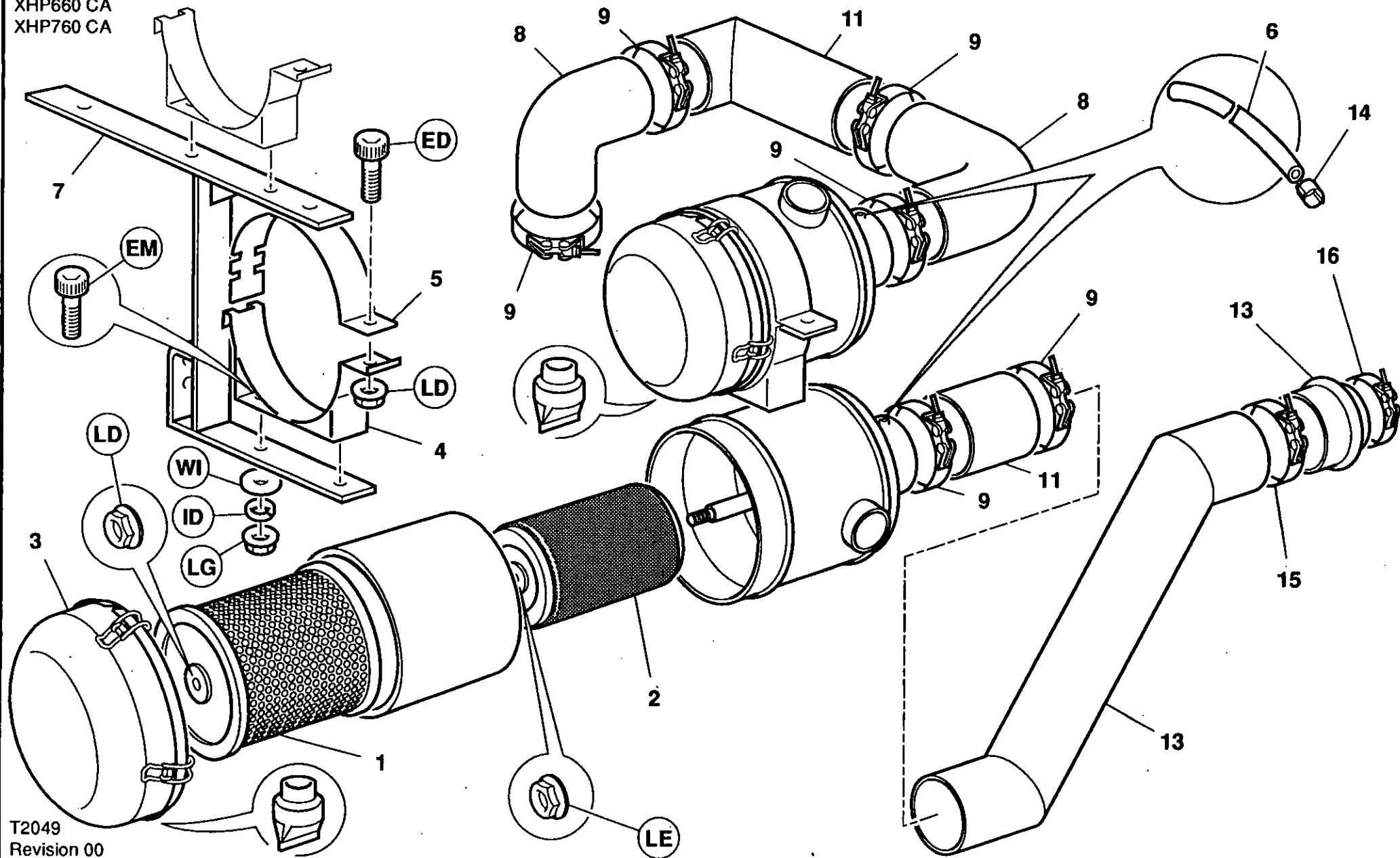
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Revision 00
10/92

10.3.1 AIR INTAKE

10.3.0 AIR INTAKE

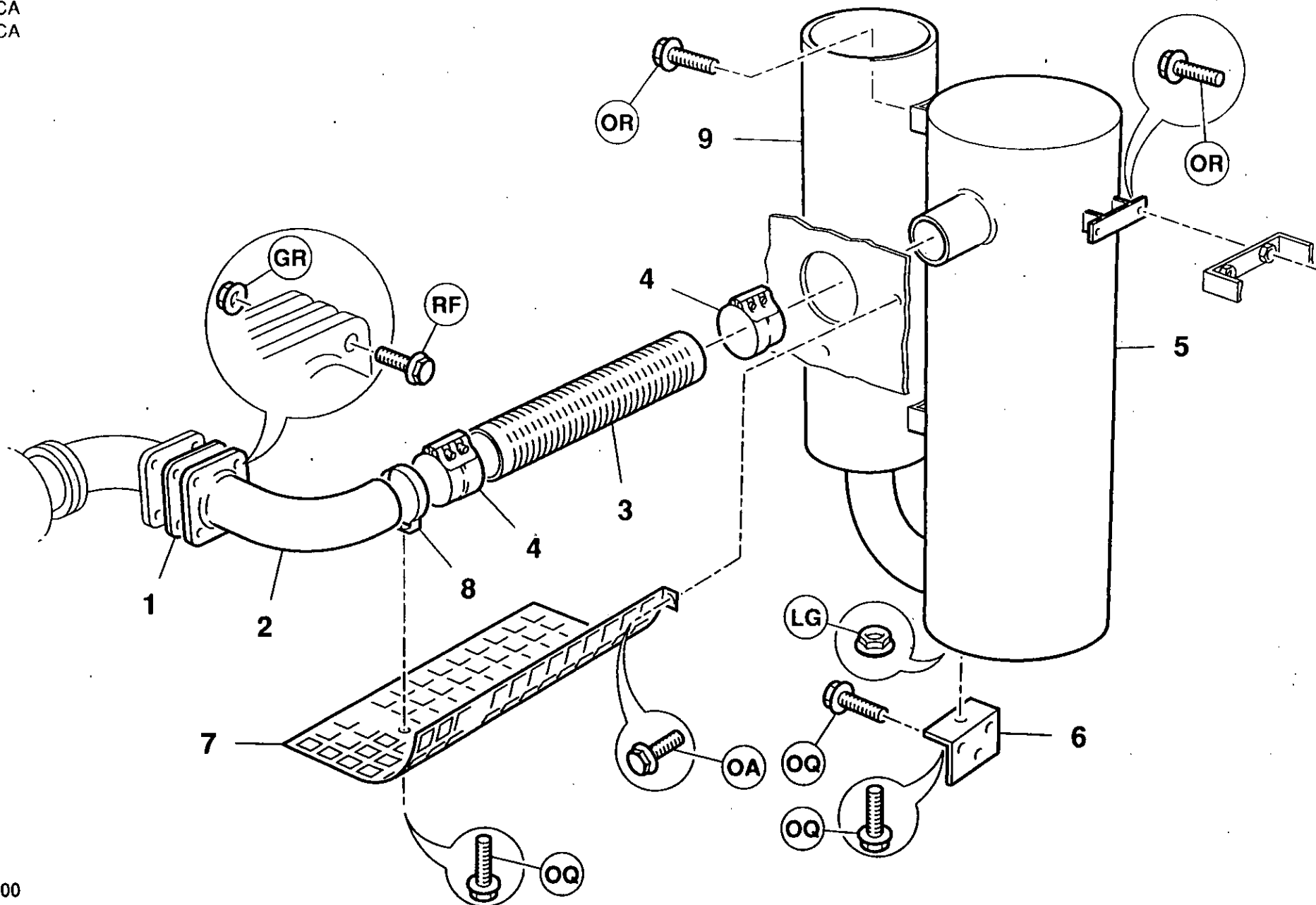
XHP660 CA
XHP760 CA



T2049
Revision 00
10/92

10.3.2 EXHAUST SYSTEM

XHP660 CA
XHP760 CA



T2050
Revision 00
10/92

XHP 760 CA
XHP 660 CA

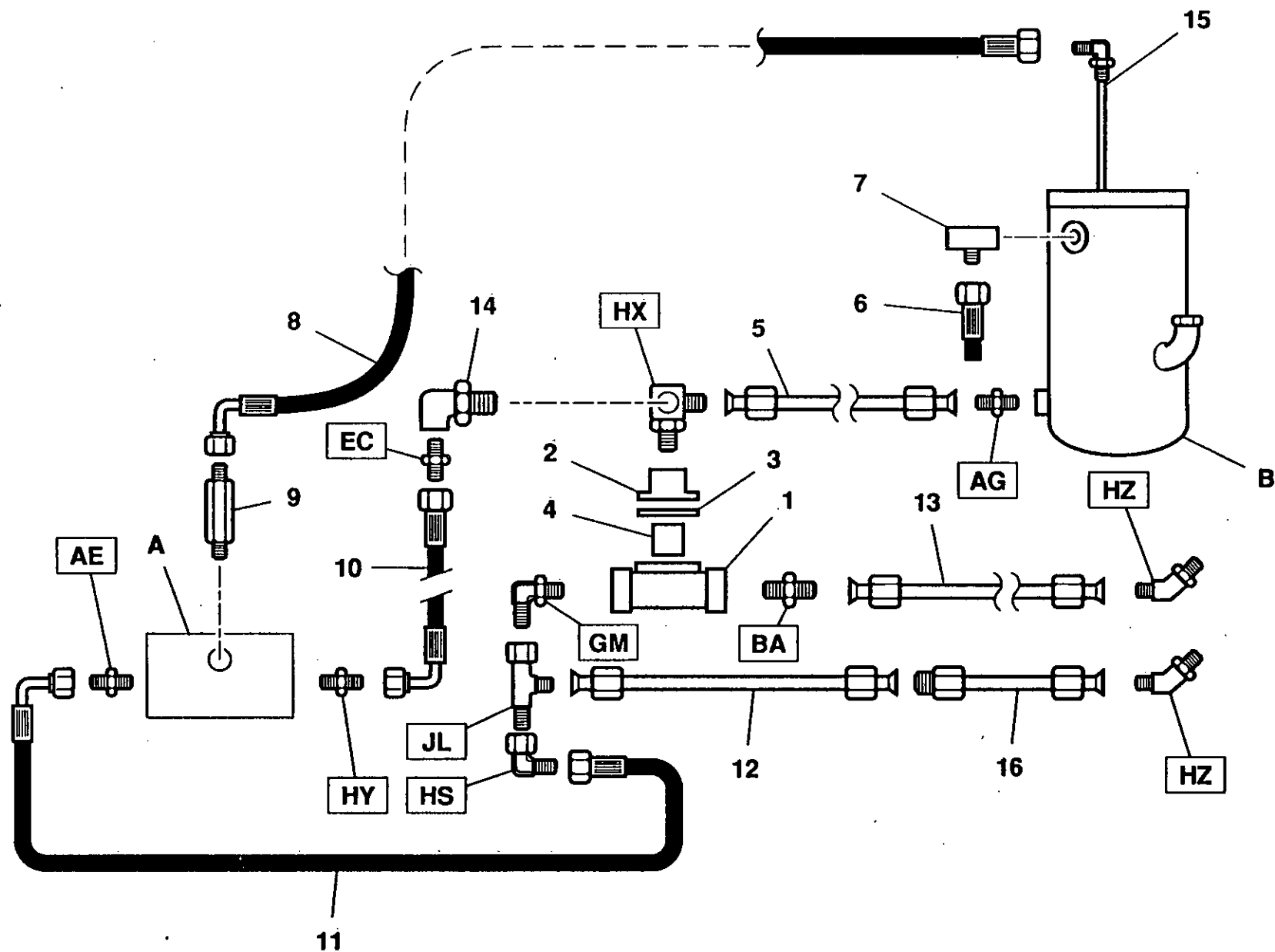
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
1	92517846	1	Gasket	Joint	Pakking	Dichtung
2	92517846	1	Exhaust pipe			
3	92814045	1	Exhaust pipe			
4	92814052	2	Clamp	Collier	Klem	Schelle
5	92893189	1	Muffler			
6	92956820	1	Bracket	Support	Beugel	Stützblech
7	92894104	1	Guard	Protection	Beschermkap	Schutzblech
8	92920701	1	Support	Support		
9	92893205	1	Guard	Protection	Beschermkap	Schutzblech

Revision 00
10/92

10.3.3 EXHAUST SYSTEM

10.4.0 OIL PIPING

XHP660 CA
XHP760 CA



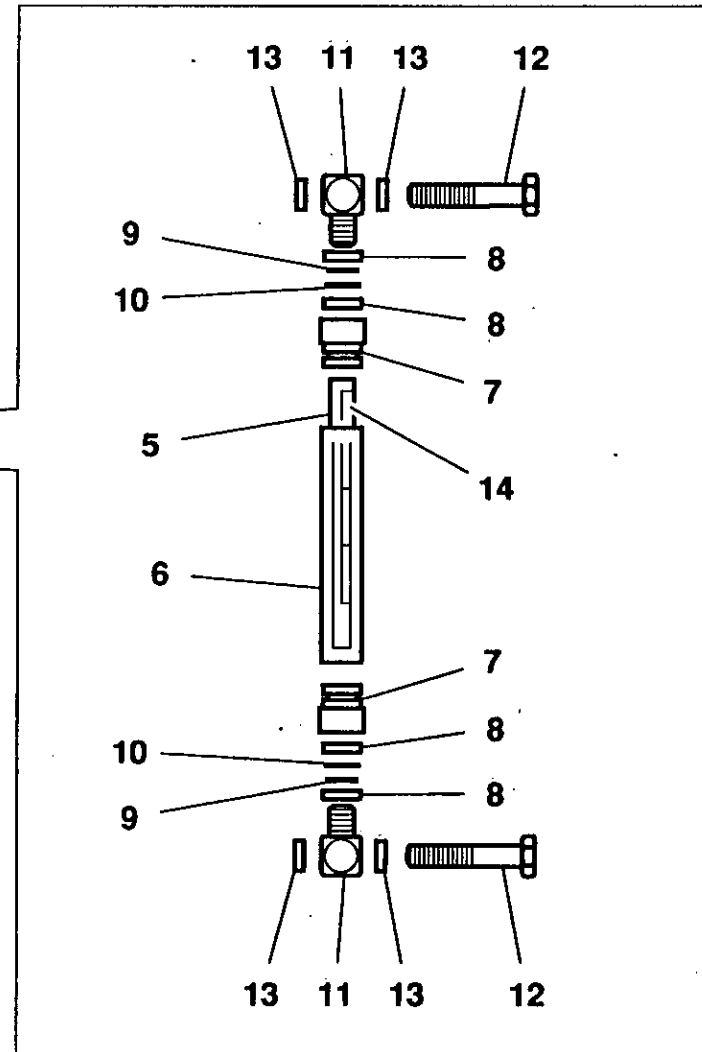
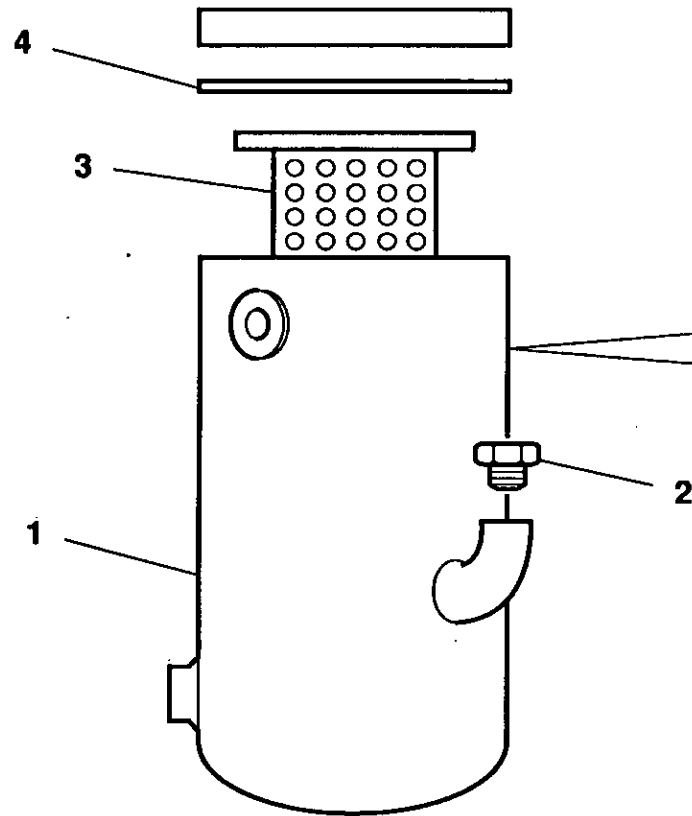
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA						
A		1	Airend	Airend	Schroefgedeelte	Verdichter
B		1	Tank, separator	Réservoir séparateur	Afscheidertank	Abscheider-behälter
1-4	92752203	1	Valve, temperature bypass			
1	92707512	1	Body			
2	92707520	1	Cover			
3	92707538	1	Gasket	Joint	Pakking	Dichtung
4	35288117	1	Valve	Clapet	Klep	Ventil
5	92918945	1	Tube assembly	Tube	Leiding	Schlauch
6	92895267	1	Hose assembly	Flexible	Slang	Schlauchsystem
7	92892934	1	Valve, safety	Soupape de sécurité	Veiligheidsklep	Sicherheitsventil
8	92956598	1	Hose assembly	Flexible	Slang	Schlauchsystem
9	92955244	1	Scavenge orifice			
10	92899368	1	Hose assembly	Flexible	Slang	Schlauchsystem
11	92899350	1	Hose assembly	Flexible	Slang	Schlauchsystem
12	92951953	1	Tube assembly	Tube	Leiding	Schlauch
13	92896174	1	Tube assembly	Tube	Leiding	Schlauch
14	92892942	1	Valve, pressure relief			
15	92895168	1	Drop-tube	Tube de recyclage	Terugvoerleiding	Spülschlauch
16	92951996	1	Tube assembly	Tube	Leiding	Schlauch

Revision 00
10/92

10.4.1 OIL PIPING

10.4.2 SEPARATOR TANK

XHP660 CA
XHP760 CA



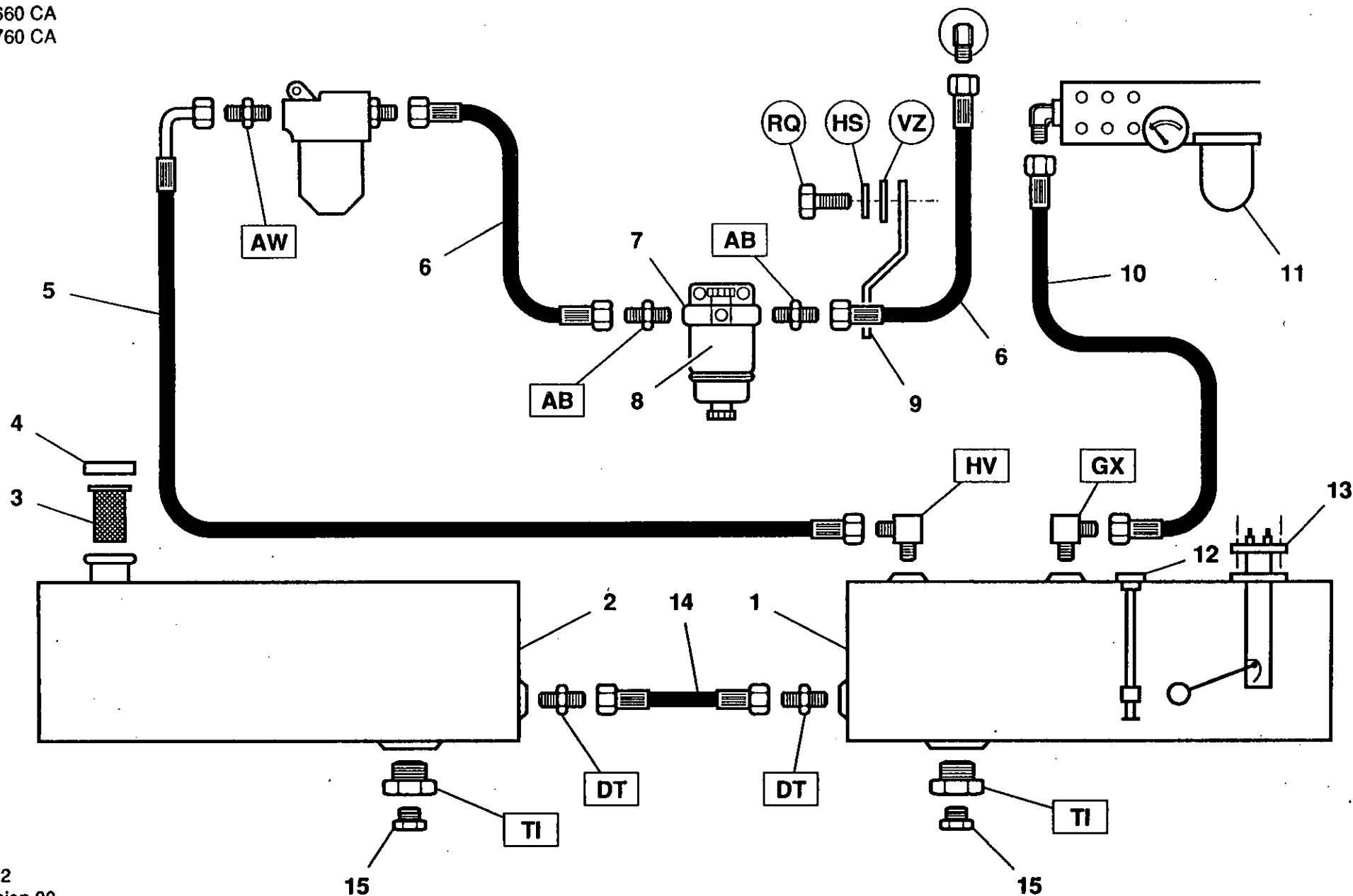
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA XHP 660 CA						
1	92865815	1	Tank, separator	Réservoir séparateur	Afscheidertank	Abscheider-behälter
2	35579630	1	Cap			
3	92894047	1	Element, oil filter			
4	92765189	1	Gasket	Joint	Pakking	Dichtung
5-14	92095363	1	Sight-glass	Niveau d'huile	Peilglas	Transparantes schlauchstück
5	92095371	1	Tube			
6	92095389	1	Tube			
7	92095397	2	Nut	Ecrou	Moer	Mutter
8	92095405	4	Ferrule			
9	92095413	2	'O' Ring	Joint torique	'O'Ring	'O'Ring
10	92095421	2	'O' Ring	Joint torique	'O'Ring	'O'Ring
11	92095439	2	Collar			
12	92095447	2	Nipple		Nippel	
13	92293661	4	Seal			
14	92094994	1	Indicator			

Revision 00
10/92

10.4.3 SEPARATOR TANK

10.5.0 FUEL SYSTEM

XHP660 CA
XHP760 CA



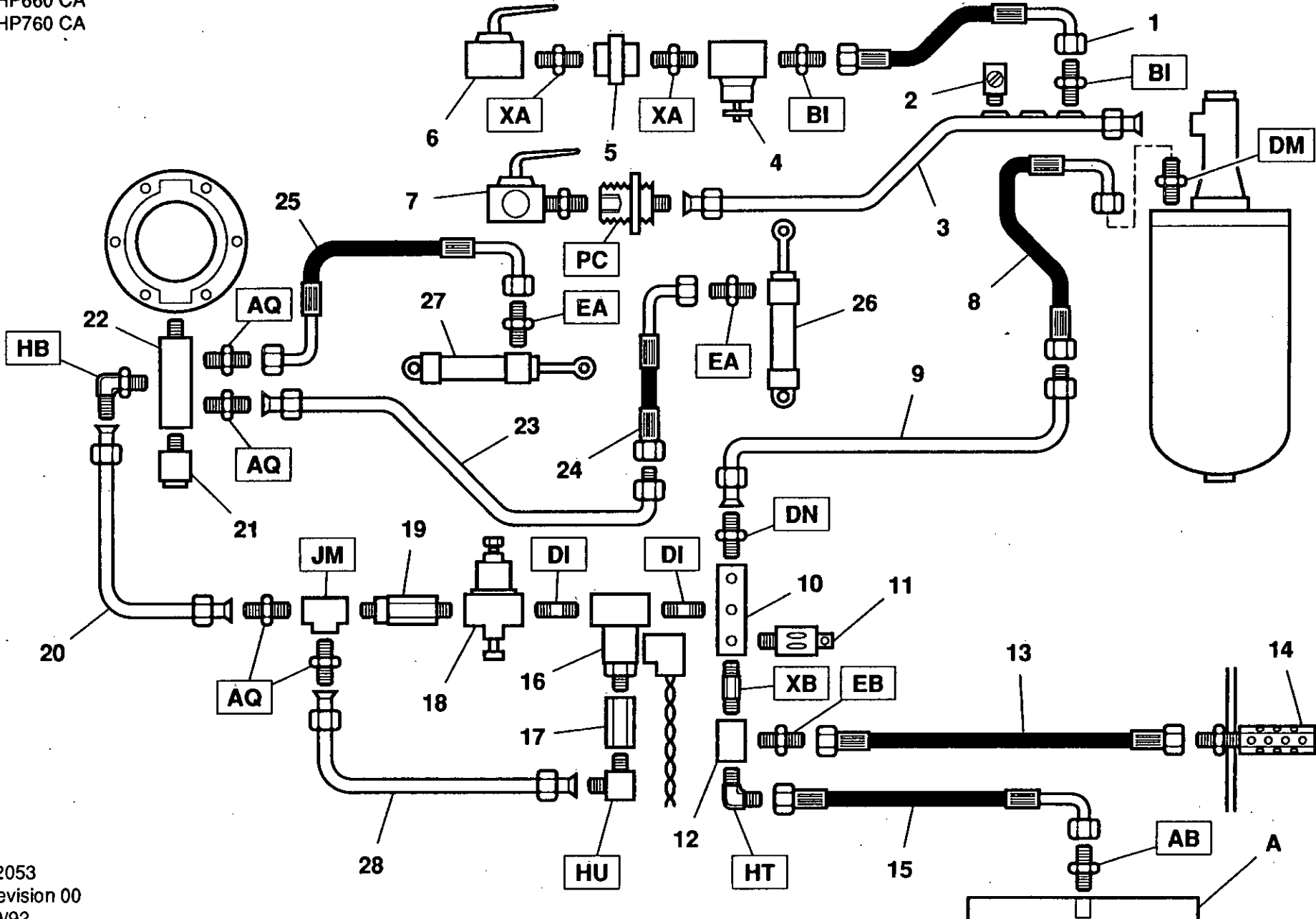
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA						
1	92891571	1	Fuel tank LH			
2	92891563	1	Fuel tank RH			
3	92043058	2	Filter, fuel			
4	92120013	2	Cap, fuel filler			
5	92911940	1	Hose assembly	Flexible	Slang	Schlauchsystem
6	92894948	2	Hose assembly	Flexible	Slang	Schlauchsystem
7	92894930	1	Filter, fuel			
8	92894989	1	Element, fuel filter			
9	92961614	1	Bracket	Support	Beugel	Stützblech
10	92911957	1	Hose assembly	Flexible	Slang	Schlauchsystem
11	92744523	1	Element, fuel filter			
12	92960970	1	Switch			
13	92062124	1	Sender unit			
14	92911932	1	Hose assembly	Flexible	Slang	Schlauchsystem
15	92037464	2	Drain cock			

Revision 00
10/92

10.5.1 FUEL SYSTEM

10.6.0

XHP660 CA
XHP760 CA



T2053
Revision 00
10/92

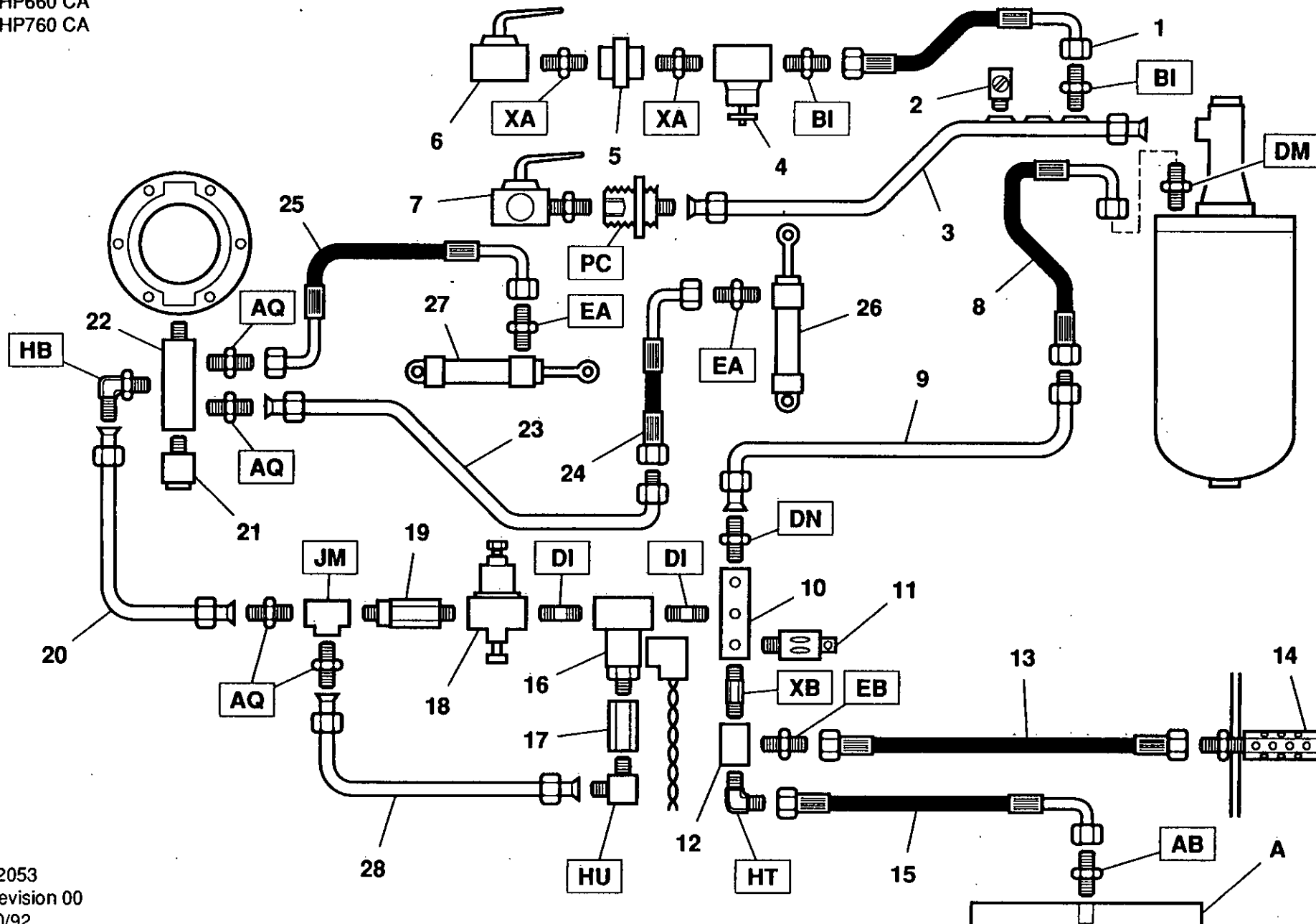
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG	
XHP 760 CA XHP 660 CA	1	92094580	1	Hose assembly	Flexible	Slang	Schlauchsystem
	2	92069038	1	Valve, ball			
	3	92956515	1	Tube assembly	Tube	Leiding	Schlauch
	4	92956952	1	Valve Pressure reduction	Clapet	Klep	Ventil
	5	92956945	1	Adaptor	Adapteur	Adapter	Anschlußnippel
	6	92294461	1	Valve, hand			
	7	92530047	1	Valve, ball			
	8	92956630	1	Hose assembly	Flexible	Slang	Schlauchsystem
	9	92956648	1	Tube assembly	Tube	Leiding	Schlauch
	10	92894880	1	Manifold	Distributeur	Verdeelstuk	Verteilerblock
	11	92043017	1	Valve, Relief			
	12	92892959	1	Valve, blowdown			
	13	92956614	1	Hose assembly	Flexible	Slang	Schlauchsystem

Revision 00
10/92

10.6.1 REGULATION SYSTEM

10.6.2 REGULATION SYSTEM

XHP660 CA
XHP760 CA



T2053
Revision 00
10/92

XHP 760 CA
XHP 660 CA

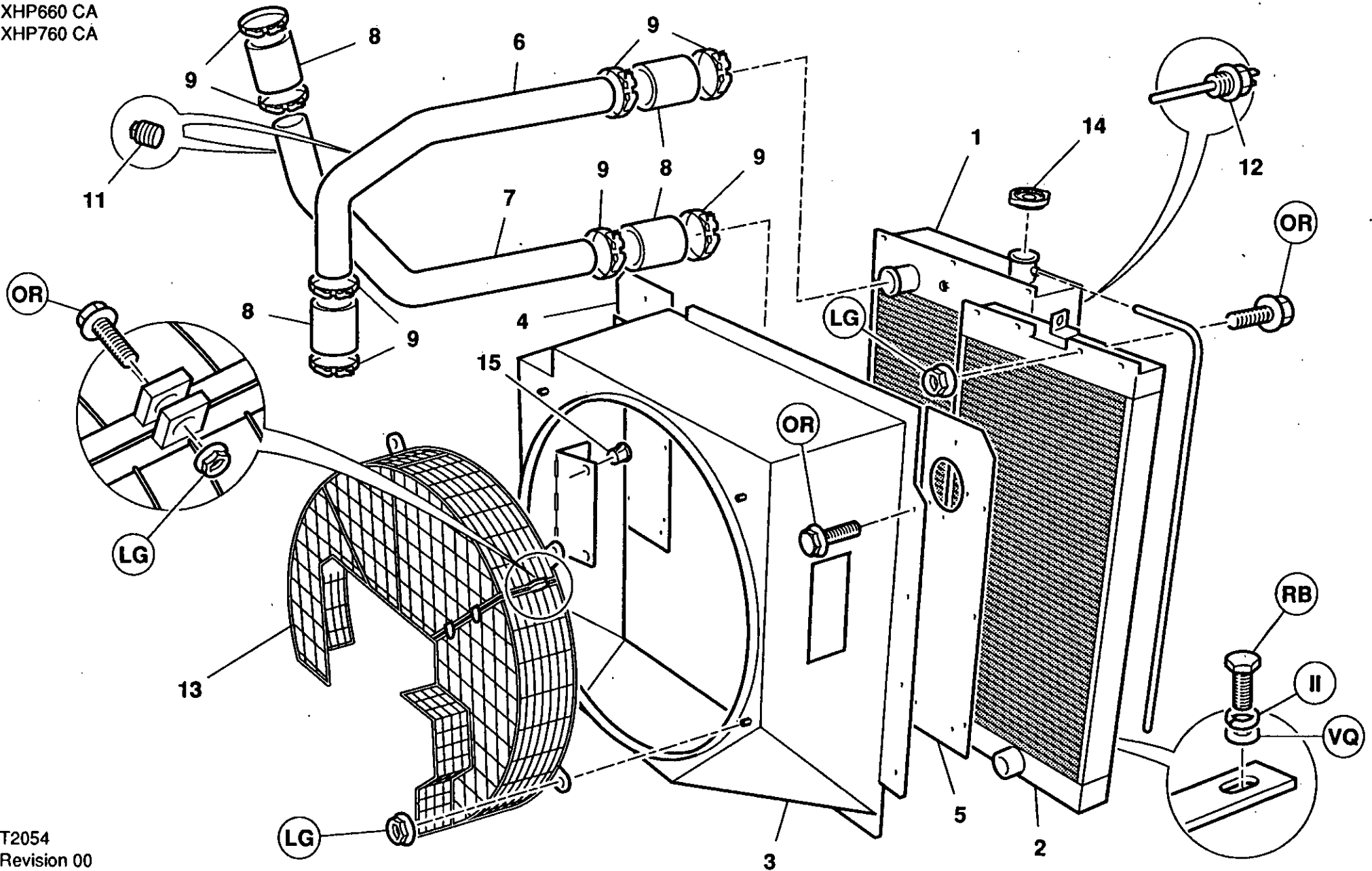
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
14	92912401	1	Muffler assembly			
15	92956622	1	Hose assembly	Flexible	Slang	Schlauchsystem
16	92956135	1	Valve, solenoid	Electro vanne	Solenoidklep	Magnetventil
17	92812932	1	Valve, check	Vanne	Terugslagklep	Rückschlagventil
18	92956093	1	Regulator		Regulateur	
19	92898667	1	Valve, check	Vanne	Terugslagklep	Rückschlagventil
20	92956663	1	Tube assembly	Tube	Leiding	Schlauch
21	92517028	1	Valve, safety	Soupape de sécurité	Veiligheidsklep	Sicherheitsventil
22	92893080	1	Manifold	Distributeur	Verdeelstuk	Verteilerblock
23	92956671	1	Tube assembly	Tube	Leiding	Schlauch
24	92898709	1	Hose assembly	Flexible	Slang	Schlauchsystem
25	92898709	1	Hose assembly	Flexible	Slang	Schlauchsystem
26	92700319	1	Cylinder			
27	92956499	1	Cylinder			
28	92956655	1	Tube assembly	Tube	Leiding	Schlauch

Revision 00
10/92

10.6.3 REGULATION SYSTEM

10.7.0 COOLING SYSTEM

XHP660 CA
XHP760 CA



T2054
Revision 00
10/92

XHP 760 CA
XHP 660 CA

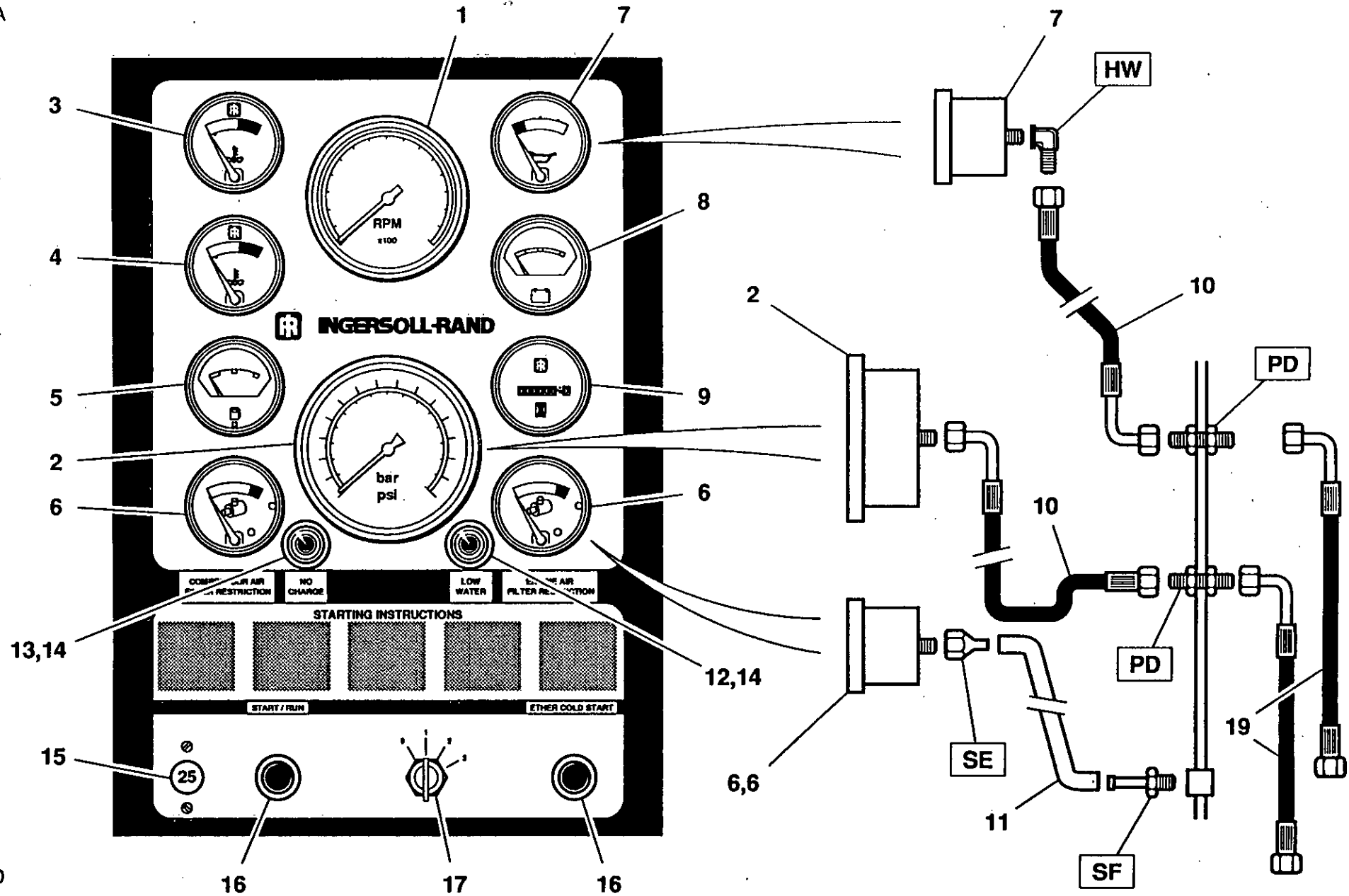
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
1	92886100	1	Radiator			
2	92886092	1	Cooler	Réfrigérant	Koeler	Kühler
3	92911783	1	Cowl	Capotage	Huis	Schutz
4	92899046	1	Baffle wall LH			
5	92899038	1	Baffle wall RH			
6	92905900	1	Pipe			
7	92905918	1	Pipe			
8	92668920	4	Hose	Flexible	Slang	Schlauch
9	92042233	8	Clamp	Collier	Klem	Schelle
10*	92037464	1	Valve, drain			
11	92354653	2	Plug	Bouchon	Plug	Stopfen
12	92175405	1	Probe			
13	92894096	1	Guard	Protection	Beschermkap	Schutzblech
14	92691674	1	Cap			
15	92951466	4	Magnetic catch			

Revision 00
10/92

10.7.1 COOLING SYSTEM

10.8.0 INSTRUMENTATION

XHP660 CA
XHP760 CA



T2055
Revision 00
10/92

XHP 660 CA
XHP 760 CA

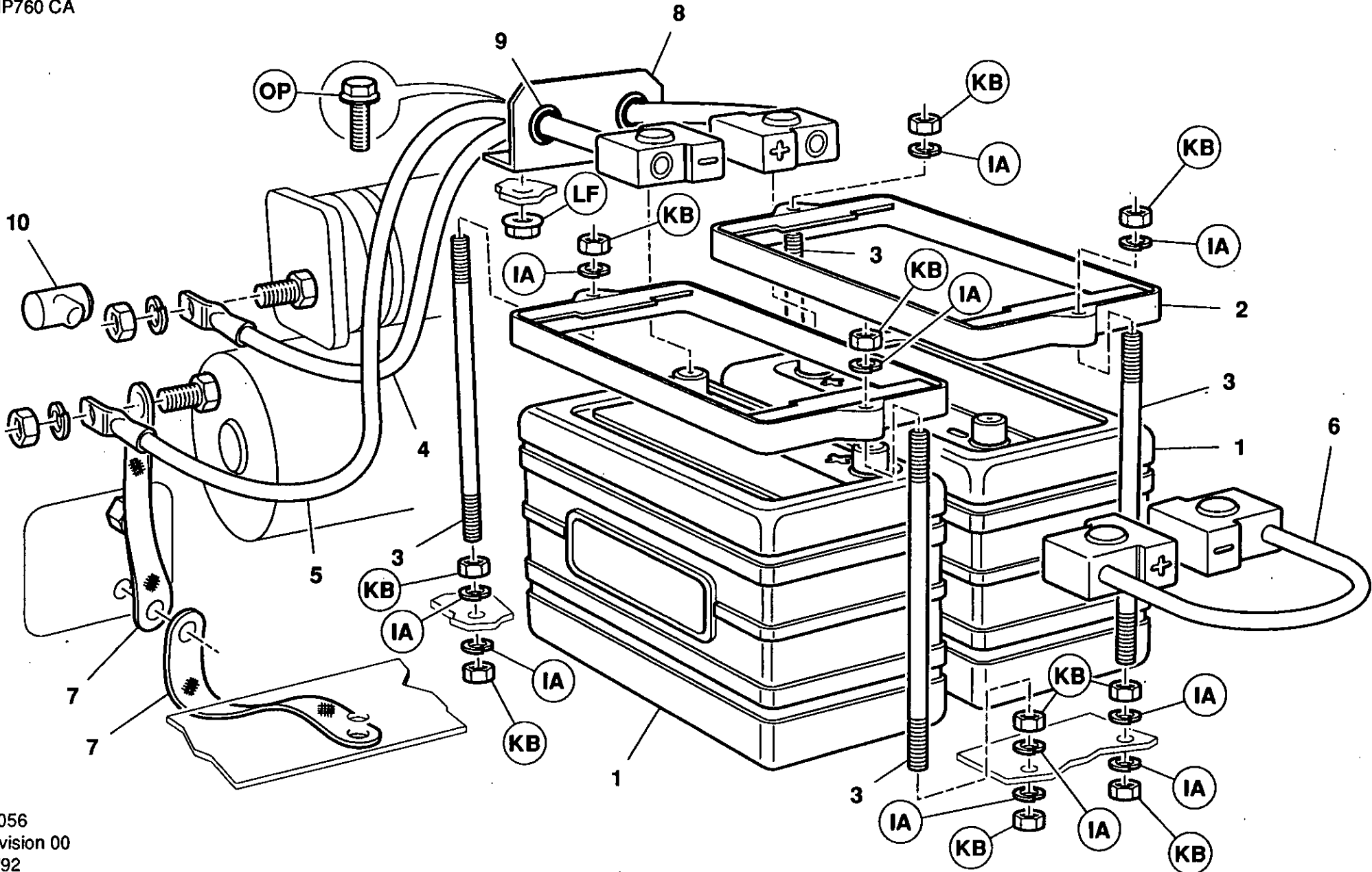
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
1	92956937	1	Gauge, RPM			
2	92894492	1	Gauge, pressure	Manomètre	Drukmeter	Manometer
3	92951276	1	Gauge, water temperature			
4	92951284	1	Gauge, temperature	Affichage température	Temperatuurmeter	Temperaturanzeige
5	92057967	1	Gauge, fuel			
6	92960673	2	Gauge, vacuum			
7	92951268	1	Gauge, oil pressure			
8	92062116	1	Gauge Voltmeter			
9	92867209	1	Hourmeter	Compteur horaire	Urenteller	Betriebsstunden-Zähler
10	92956846	2	Hose assembly	Flexible	Slang	Schlauchsystem
11	92111335	1	Tube			
12	92955376	1	Indicator (Amber)			
13	92955384	1	Indicator (Red)			
14	92455351	2	Bulb, light			
15	92294297	1	Circuit breaker			
16	35255553	1	Button, Start/Run			
17	92086719	1	Button, Start			
18	92951706	1	Fascia			
19	92956606	1	Hose assembly	Flexible	Slang	Schlauchsystem

Revision 00
10/92

10.8.1 INSTRUMENTATION

10.9.0

XHP660 CA
XHP760 CA



T2056
Revision 00
10/92

XHP 760 CA
XHP 660 CA

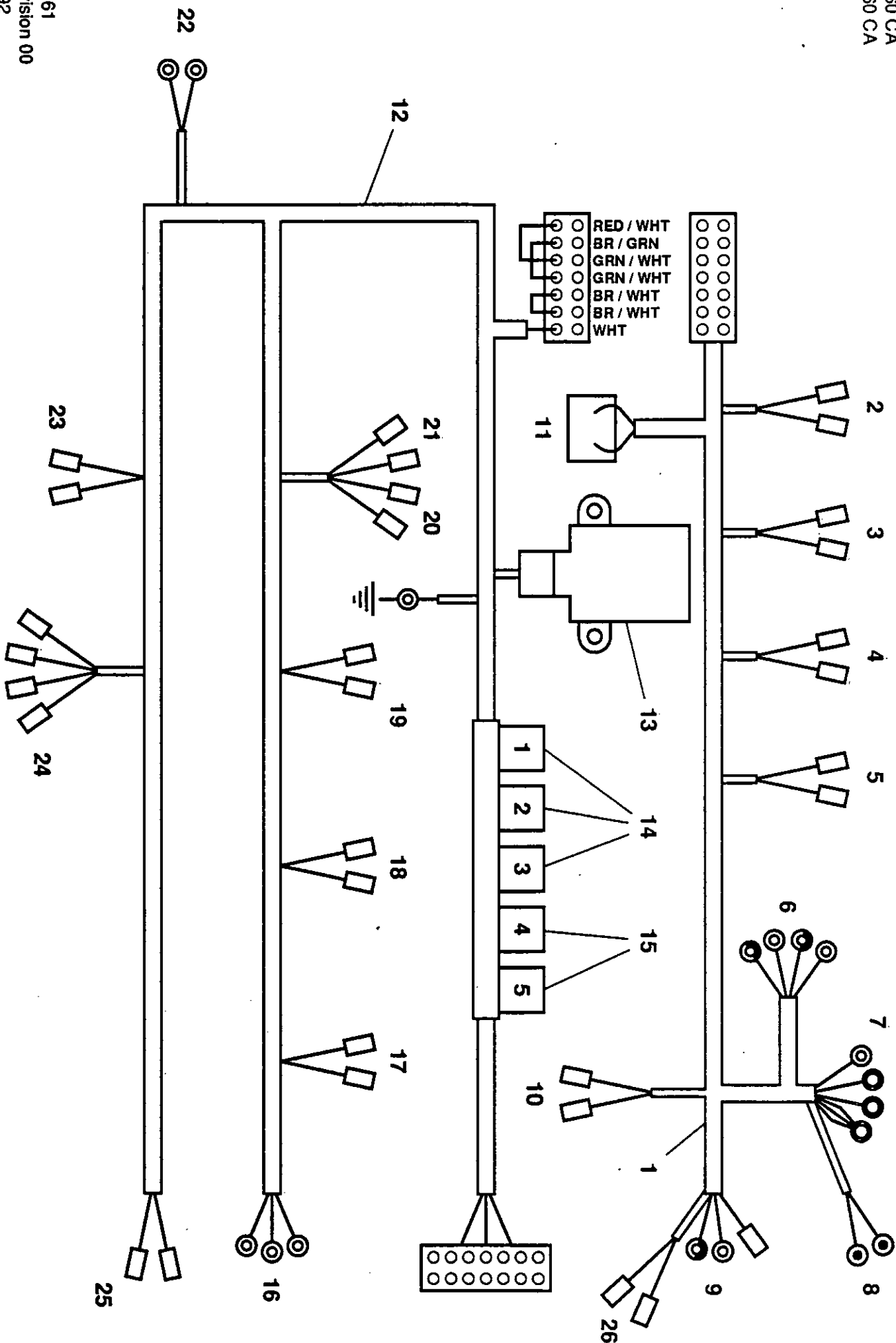
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
1	92052380	2	Battery			
2	92293901	2	Frame			
3	92690189	4	Stud	Vis de tour	Borgbout	Bolzen
4	92912088	1	Cable Positive			
5	92912096	1	Cable Negative			
6	92303825	1	Lead			
7	35578194	2	Strap			
8	92039064	1	Bracket	Support	Beugel	Stützblech
9	92254887	2	Grommet			
10	92271139	1	Hood			

Revision 00
10/92

10.9.1 BATTERY

10.10.0 WIRING HARNESS

XHP660 CA
XHP760 CA



T2061
Revision 00
10/92

XHP 660 CA
XHP 760 CA

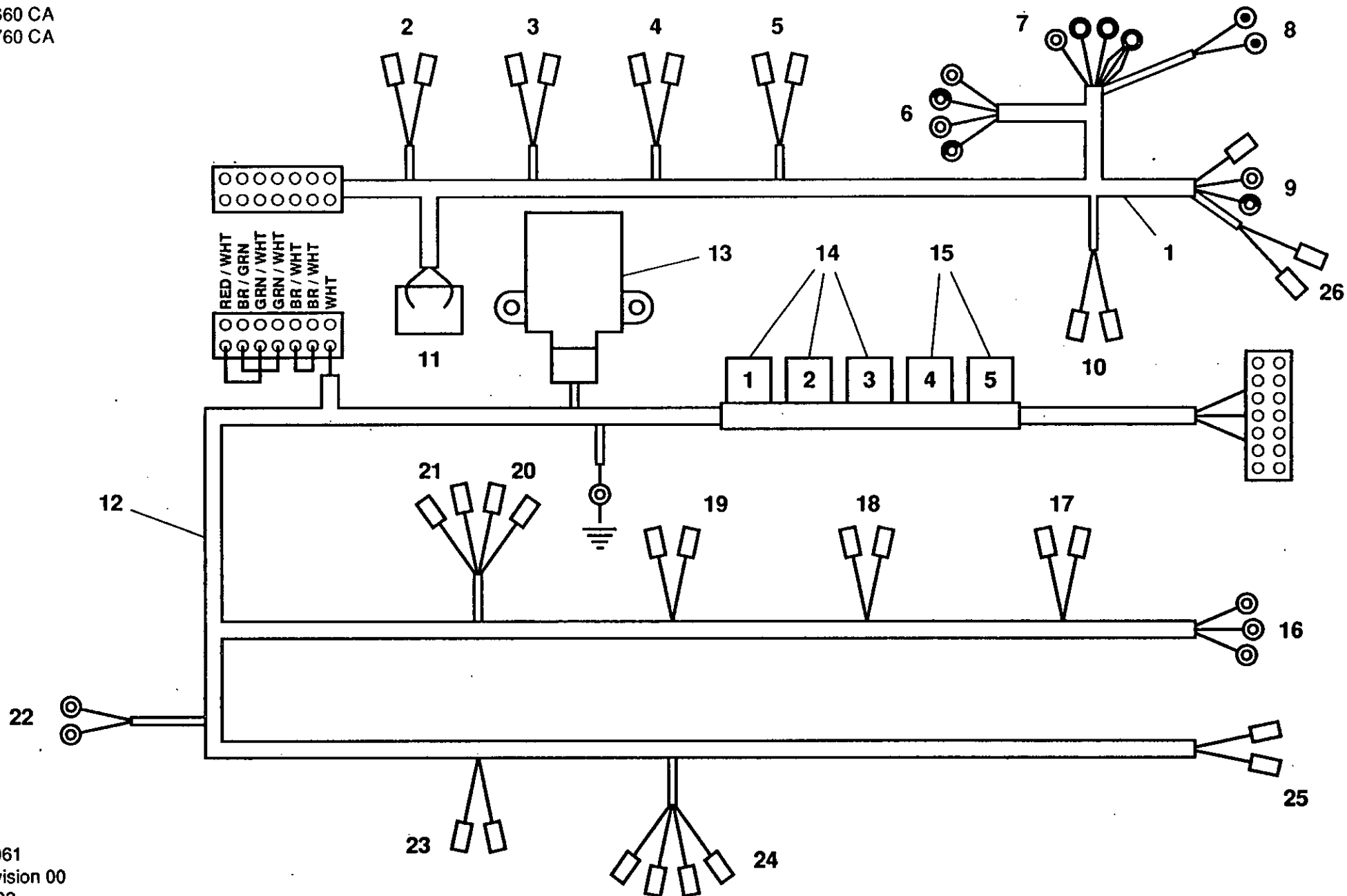
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
1	92951680	1	Harness Main			
2	36764777	1	Fuse, Discharge pipe	Fusible	Zekering	Sicherung
3	36744769	1	Fuse, Tank	Fusible	Zekering	Sicherung
4	92175405	1	Relay, Radolarm	Relais	Relais	Relais
5	92955269	1	Cold start			
6	35577873	1	Relay, starter	Relais	Relais	Relais
7	*****	1	Starter			
8	*****	1	Stop solenoid			
9	*****	1	Alternator			
10	92062124	1	Fuel sender			
11	92956135	1	Solenoid Start/Run			
12	92956820	1	Harness Panel			
13	92499888	1	Radolarm			
14	92064567	3	Relay 24V	Relais	Relais	Relais
15	92076173	2	Relay 12V	Relais	Relais	Relais

Revision 00
10/92

10.10.1 WIRING HARNES

10.10.2 WIRING HARNESS

XHP660 CA
XHP760 CA



T2061
Revision 00
10/92

XHP 660 CA
XHP 760 CA

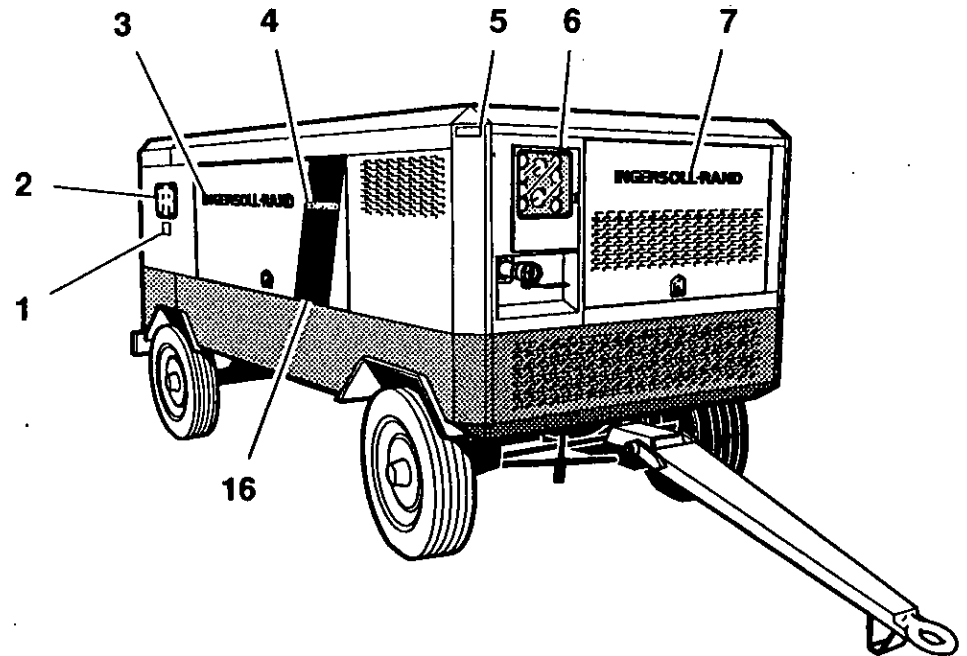
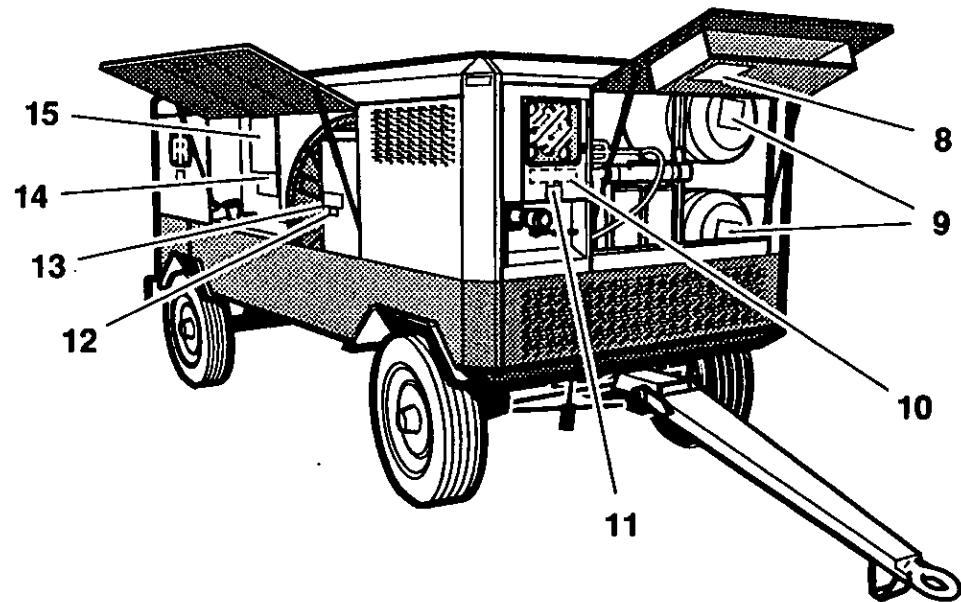
Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
16	92956935	1	Tachometer			
17	92867209	1	Hourmeter	Compteur horaire	Urenteller	Betriebsstunden-Zähler
18	92062116	1	Voltmeter			
19	92057967	1	Gauge, fuel			
20	92955376	1	Indicator, Low water			
21	92955384	1	Indicator, No charge			
22	92294297	1	Button Re-set			
23	35255553	1	Button Start/run			
24	92086719	1	Start switch			
25	35255553	1	Cold start switch			
26	92960970	1	Fuel level switch			

Revision 00
10/92

10.10.3 WIRING
HARNESS

10.11.0 DECALS

XHP660 CA
XHP760 CA



T2057
Revision 00
10/92

XHP 660 CA
XHP 760 CA

Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
1	92814284	1	Decal Sound level	Décalque	Tekststicker	Dekor
2	92918937	1	Decal IR Logo	Décalque	Tekststicker	Dekor
3	92512581	1	Decal Logotype	Décalque	Tekststicker	Dekor
4	92956697	1	Decal Model	Décalque	Tekststicker	Dekor
5	92524313	1	Data plate			
6	92893171	1	Decal Instrument panel	Décalque	Tekststicker	Dekor
7	92512573	1	Decal IR logotype	Décalque	Tekststicker	Dekor
8	92912146	1	Decal Wiring diagram	Décalque	Tekststicker	Dekor
9	92519164	1	Decal Air filters	Décalque	Tekststicker	Dekor
10		1	Decal Instrument panel	Décalque	Tekststicker	Dekor
11	92524248	1	Decal Air discharge	Décalque	Tekststicker	Dekor
12	92524271	1	Decal Filler plug	Décalque	Tekststicker	Dekor
13	92050327	1	Decal Engine oil	Décalque	Tekststicker	Dekor
14	92912138	1	Decal Maintenance	Décalque	Tekststicker	Dekor
15	92956689	1	Decal General data	Décalque	Tekststicker	Dekor
16	92919471	1	Decal, Stripe RH	Décalque	Tekststicker	Dekor
17*	92919463	1	Decal, Stripe LH	Décalque	Tekststicker	Dekor

Revision 00
10/92

10.11.1 DECALS

11.0

RECOMMENDED
PARTSPIÈCES
RECOMMANDESAANBEVOLEN
ONDERDELENEMPFOHLENE
ERSATZTEILE

	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA	92945286	1	KIT – SERVICE			
	92529973	1	Cap, fuel filler			
	92549278	1	Silencer		Demper	
	35596436	1	Switch, temperature			
	92522135	1	Element, separator	Elément séparateur	Afscheide	Abscheider-Element
	92789510	1	Sight-glass	Niveau d'huile	Peilglas	Transparantes schlauchstück
	92789312	1	Valve, safety	Soupape de sécurité	Veiligheidsklep	Sicherheitsventil
	92268051	1	Indicator, air restriction			
	92294461	1	Valve, hand			
	35355106	1	Regulator		Regulateur	
	92923788	1	Valve, check	Vanne	Terugslagklep	Rückschlagventil
	92306901	1	Hourmeter	Compteur horaire	Urenteller	Betriebsstunden-Zähler
	92790187	1	Gauge, pressure	Manomètre	Drukmeter	Manometer
	92086719	1	Key-switch			
	92790153	1	Indicator, no charge			
	92076173	1	Relay, changeover			
	92930379	1	Relay, mini			
	92775691	1	Indicator			
	92705748	1	Orifice, sonic			
	35296920	1	Element, oil filter (Airend)			
	92950732	1	Element, oil filter (Engine)			
	92950740	1	Element, air filter			

CPN	Qty.	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA	92950757	1	Element, fuel filter		
	92945278	1	KIT – Gasket/'O' ring		
CPN	Qty.	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
92945278	1	KIT – 'O' RING			
92808138	1	Gasket, fuel filler cap			
92906049	1	Gasket, exhaust manifold			
95060745	1	'O' Ring, rear bearing housing			
95045092	1	'O' Ring, rear bearing housing			
39404165	1	'O' Ring, temperature switch			
95023115	1	'O' Ring, rear bearing cover			
95852281	1	'O' Ring, rear bearing cover			
95641734	1	'O' Ring, cover/gearcase			
95022331	1	'O' Ring, driveshaft seal cover			
35375369	1	Lipseal, driveshaft			
95023107	1	'O' Ring, unloader			
92293661	1	Seal			
Revision 00 10/92					
11.1	RECOMMENDED PARTS	PIÈCES RECOMMANDES	AANBEVOLEN ONDERDELEN	EMPFOHLENE ERSATZTEILE	

12.0

INDEX
- FASTENERS

CODE VISSERIE

BEVESTIGINGS-
MATERIALENVERBINDUNGS-
ELEMENTE

CODE	CPN	PAGE #	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA	CA	9579232110.1.0	Bolt 3/8" x 2"		Bout	
	CY	9231170310.1.0/10.1.2/10.1.4	Bolt M16 x 100		Bout	
	ED	3529935310.3.0	Capscrew Skt. Hd. M10 x 60			
	EM	9242140310.3.0	Capscrew Skt. Hd. M8 x 20			
	GQ	9231169510.1.2/10.1.4	Locknut M16	Ecrou	Borgmoer	
	GR	9230457510.3.0	Locknut M12	Ecrou	Borgmoer	
	HI	9206133210.1.0/10.2.4	Lockwasher M10			
	HL	9230467410.1.0	Lockwasher M10			
	HN	9206147210.2.4	Lockwasher M10			
	HS	9235937110.5.0	Lockwasher M10			
	HV	9239137410.1.2/10.1.4/10.2.4	Lockwasher M20			
	IA	9230465810.9.0	Lockwasher M6			
	ID	9230466610.3.0	Lockwasher M8			
	II	9230467410.7.0	Lockwasher M10			
	KB	9230450010.9.0	Nut M6	Ecrou	Moer	Mutter
	KU	9231169510.1.0	Nut self locking M16	Ecrou	Moer	Mutter
	KW	9230454210.2.0	Nut self locking M6	Ecrou	Moer	Mutter
	LD	9247359410.3.0	Nut Whiztite M10	Ecrou	Moer	Mutter
	LE	9239864310.3.0	Nut Whiztite M12	Ecrou	Moer	Mutter
	LF	9239810610.2.0/10.9.0	Nut Whiztite M6	Ecrou	Moer	Mutter
	LG	9239811410.2.4/10.3.0/10.3.2 10.7.0	Nut Whiztite M8	Ecrou	Moer	Mutter
	LK	9270059010.1.0/10.2.4	Nut self locking M20	Ecrou	Moer	Mutter
	OA	9236868710.1.0/10.2.4/10.3.2	Screw Tapitite M6 x 12	Vis	Schroef	Schraube
	OO	9239812210.2.0	Screw Whizlock M6 x 20	Vis	Schroef	Schraube
	OP	9217904310.9.0	Screw Whizlock M6 x 25	Vis	Schroef	Schraube

	CODE	CPN	PAGE #	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA	OO	92398130	10.2.4/10.3.2	Screw Whizlock M8 x 20	Vis	Schroef	Schraube
XHP 760 CA	OR	92101112	10.3.2/10.7.0	Screw Whizlock M8 x 25	Vis	Schroef	Schraube
	OT	92722990	10.2.0	Screw Panhead M6 x 12	Vis	Schroef	Schraube
	PC	50763325	10.1.0	Bolt M20 x 70		Bout	
	QZ	92304401	10.1.0	Setscrew M10 x 25	Vis	Intelschroef	Sartschrause
	RA	92280981	10.2.4	Setscrew M10 x 30	Vis	Intelschroef	Sartschrause
	RB	92304419	10.7.0	Setscrew M10 x 40	Vis	Intelschroef	Sartschrause
	RF	92103185	10.3.2	Setscrew M12 x 30	Vis	Intelschroef	Sartschrause
	RK	35278977	10.2.4	Setscrew M10 x 75	Vis	Intelschroef	Sartschrause
	RQ	92095751	10.5.0	Setscrew M16 x 25	Vis	Intelschroef	Sartschrause
	RY	35272558	10.2.4	Setscrew M20 x 45	Vis	Intelschroef	Sartschrause
	SJ	92339688	10.2.0	Setscrew M6 x 35	Vis	Intelschroef	Sartschrause
	TQ	92764372	10.1.10	Screw M20 x 80	Vis	Schroef	Schraube
	UJ	40034266	10.1.2/10.1.4	Screw M20 x 50	Vis	Schroef	Schraube
	UK	92391358	10.1.10	Screw M20 x 90	Vis	Schroef	Schraube
	VP	92061498	10.2.4	Washer M10	Rondelle	Ring mo	Unterlegscheibe
	VQ	92304617	10.7.0	Washer M10	Rondelle	Ring mo	Unterlegscheibe
	VT	92061506	10.2.4	Washer M12	Rondelle	Ring mo	Unterlegscheibe
	VZ	92359363	10.1.0/10.1.2/10.1.4 10.5.0	Washer M16	Rondelle	Ring mo	Unterlegscheibe
	WB	92391382	10.1.0/10.1.2/10.1.4 10.2.4	Washer M20	Rondelle	Ring mo	Unterlegscheibe
	WE	39145008	10.2.0	Washer M6	Rondelle	Ring mo	Unterlegscheibe
	WG	92341981	10.2.0	Washer M6	Rondelle	Ring mo	Unterlegscheibe
	WI	92304609	10.3.0	Washer M8	Rondelle	Ring mo	Unterlegscheibe
Revision 00 10/92							
12.1	INDEX - FASTENERS			CODE VISSERIE	BEVESTIGINGS- MATERIALEN	VERBINDUNGS- ELEMENTE	

13.0

TUBE FITTINGS
INDEXCODE
RACCORDS

CODE	CPN	PAGE	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
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XHP 660 CA
XHP 760 CA

AB	3528307610.5.0/10.6.0		Adaptor	Adapteur	Adapter	Anschlußnippel
AE	9531011610.4.0		Adaptor	Adapteur	Adapter	Anschlußnippel
AG	9287783610.4.0		Adaptor	Adapteur	Adapter	Anschlußnippel
AO	9217378010.6.0		Adaptor	Adapteur	Adapter	Anschlußnippel
AW	9528816610.5.0		Adaptor	Adapteur	Adapter	Anschlußnippel
BA	9208784010.4.0		Adaptor	Adapteur	Adapter	Anschlußnippel
BI	9210621010.6.0		Adaptor	Adapteur	Adapter	Anschlußnippel
DI	9200570110.6.0		Connector	Connecteur	Koppelstuk	Doppelnippel
DM	9239554010.6.0		Connector	Connecteur	Koppelstuk	Doppelnippel
DN	9239546610.6.0		Connector	Connecteur	Koppelstuk	Doppelnippel
DT	9247826210.5.0		Connector	Connecteur	Koppelstuk	Doppelnippel
EA	9211846210.6.0		Connector	Connecteur	Koppelstuk	Doppelnippel
EB	9249280010.6.0		Connector	Connecteur	Koppelstuk	Doppelnippel
EC	9212322310.4.0		Connector	Connecteur	Koppelstuk	Doppelnippel
GM	9208783210.4.0		Elbow	Coude	Bochtstuk	Krümmer
GX	9239545810.5.0		Elbow	Coude	Bochtstuk	Krümmer
HB	9212320710.6.0		Elbow	Coude	Bochtstuk	Krümmer
HS	9541422310.4.0		Elbow	Coude	Bochtstuk	Krümmer
HT	9287628310.6.0		Elbow	Coude	Bochtstuk	Krümmer

	CODE	CPN	PAGE	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA	HU	9244129410.6.0		Elbow	Coude	Bochtstuk	Krümmmer
	HV	9247720710.5.0		Elbow	Coude	Bochtstuk	Krümmmer
	HW	3530122510.8.0		Elbow	Coude	Bochtstuk	Krümmmer
	HX	9291897810.4.0		Elbow	Coude	Bochtstuk	Krümmmer
	HY	3529475010.4.0		Elbow	Coude	Bochtstuk	Krümmmer
	HZ	9271603410.4.0		Elbow	Coude	Bochtstuk	Krümmmer
	JL	9279185410.4.0		Tee	Te	T-stuk	T-Stück
	JM	9295670510.6.0		Tee	Te	T-stuk	T-Stück
	PC	92989985510.6.0		Adaptor	Adapteur	Adapter	Anschlußnippel
	PD	9295525110.8.0		Connector	Connecteur	Koppelstuk	Doppelnippel
	SE	9296206710.8.0		Fitting, barbed			
	SF	9295655610.8.0		Fitting, barbed			
	TI	9248112610.5.0		Bush	Palier	Bus	Hülse
	XA	9225593410.6.0		Nipple		Nippel	
	XB	9235461210.6.0		Nipple		Nippel	

Revision 00
10/92

XHP 660 CA	CPN	Page	CPN	Page	CPN	Page	CPN	Page	CPN	Page	CPN	Page	CPN	Page
XHP 760 CA	35082114,	10.1.11	35355833,	10.1.13	35737161,	10.1.5	92042860,	10.0.5	92096247,	10.0.1	92302587,	10.0.5	92327626,	10.0.5
	35088954,	10.1.7	35355841,	10.1.13	35856350,	10.1.9	92042878,	10.0.5	92104264,	10.2.3	92302595,	10.0.5	92329309,	10.1.11
	35104082,	10.1.3	35355858,	10.1.13	35856418,	10.1.13	92042894,	10.0.3	92111335,	10.3.1, 10.8.1	92302637,	10.0.3	92329341,	10.0.9
	35251800,	10.2.3	35355866,	10.1.7	35856467,	10.1.3	92042902,	10.0.3	92120013,	10.5.1	92302678,	10.0.1	92354364,	10.1.1
	35255553,	10.8.1, 10.10.3	35355874,	10.1.9	35864644,	10.1.9	92043017,	10.6.1	92175405,	10.7.1, 10.10.1	92302686,	10.0.1	92354653,	10.7.1
	35264415,	10.3.1	35355916,	10.1.9	36500734,	10.1.9	92043058,	10.5.1	92254887,	10.9.1	92302736,	10.0.3	92359363,	10.0.9
	35271139,	10.1.5	35355924,	10.1.9	36501013,	10.1.13	92050327,	10.11.1	92268051,	11.0	92302744,	10.0.3	92359371,	10.0.9
	35271147,	10.1.13	35355940,	10.1.9	36504116,	10.1.3	92052380,	10.9.1	92271139,	10.9.1	92302793,	10.0.7	92367663,	10.0.9
	35271154,	10.1.13	35355957,	10.1.9	36738128,	10.1.7	92055300,	10.3.1	92271550,	10.0.5	92302850,	10.0.7	92414705,	10.0.7
	35271188,	10.1.9	35355965,	10.1.7	36738797,	10.1.11	92056852,	10.0.9	92274828,	10.0.3	92302868,	10.0.7	92419514,	10.1.1
	35272533,	10.1.5, 10.1.9	35355973,	10.1.7	36744769,	10.10.1	92057967,	10.8.1, 10.10.3	92275239,	10.3.1	92302884,	10.0.9	92455351,	10.8.1
	35272541,	10.1.5	35355999,	10.1.7	36746410,	10.1.3, 10.1.7,	92058940,	10.0.9	92280965,	10.0.9	92302892,	10.0.9	92472397,	10.1.1
	35273408,	10.1.7	35356039,	10.1.11		10.1.13	92058957,	10.0.9	92289586,	10.0.7	92302918,	10.0.9	92472943,	10.3.1
	35273937,	10.1.1, 10.1.5	35361286,	10.1.3	36750909,	10.1.3	92058965,	10.0.9	92293661,	10.4.3, 11.1	92302959,	10.0.5	92499888,	10.10.1
	35285626,	10.1.11	35364975,	10.1.5	36763183,	10.1.3, 10.1.7,	92061811,	10.2.3	92293901,	10.9.1	92302975,	10.0.1	92512573,	10.11.1
	35288117,	10.4.1	35366657,	10.1.9		10.1.13	92062116,	10.8.1, 10.10.3	92294297,	10.8.1, 10.10.3	92303825,	10.9.1	92512581,	10.11.1
	35295344,	10.1.11	35369438,	10.1.9	36764777,	10.10.1	92062124,	10.5.1, 10.10.1	92294461,	10.6.1, 11.0	92304385,	10.0.11	92517739,	10.1.1
	35296920,	11.0	35371996,	10.1.5	39101449,	10.1.5	92062157,	10.1.1, 10.1.5	92299916,	10.0.1	92304393,	10.1.13	92517846,	10.3.3
	35300185,	10.1.13	35372002,	10.1.3	39125000,	10.1.9	92064567,	10.10.1	92299924,	10.0.1	92304435,	10.1.3	92519164,	10.11.1
	35300193,	10.1.7, 10.1.11	35372010,	10.1.3	39404165,	11.1	92069038,	10.6.1	92299932,	10.0.1	92304674,	10.0.11	92522135,	11.0
	35300201,	10.1.7	35372028,	10.1.3	90103185,	10.0.9	92070903,	10.0.1	92299940,	10.0.1	92304682,	10.0.9	92524248,	10.11.1
	35311463,	10.1.7, 10.1.9,	35375369,	11.1	90103854,	10.0.9	92076173,	10.10.1, 11.0	92299973,	10.0.1	92306901,	11.0	92524271,	10.11.1
	10.1.11, 10.1.13	35577873,	10.1.1, 10.10.1	92035948,	10.3.1	92085995,	10.3.1	92299981,	10.0.1	92308618,	10.0.11	92524313,	10.11.1	
	35318146,	10.1.3	35578194,	10.9.1	92035955,	10.3.1	92086719,	10.8.1, 10.10.3,	92299999,	10.0.1, 10.0.7	92308626,	10.0.11	92529973,	11.0
	35336122,	10.1.5, 10.1.7,	35579630,	10.4.3	92035963,	10.3.1	11.0	92301993,	10.0.3	92308634,	10.0.11	92530047,	10.6.1	
	10.1.11	35584036,	10.2.3	92037464,	10.5.1, 10.7.1	92091842,	10.0.7	92302009,	10.0.3	92309079,	10.0.11	92549278,	11.0	
	35336130,	10.1.7, 10.1.11	35593516,	10.1.3	92039064,	10.9.1	92091867,	10.0.7	92302058,	10.0.1, 10.0.3	92309095,	10.0.11	92658095,	10.1.1
	35337583,	10.1.5	35596436,	11.0	92042233,	10.7.1	92094580,	10.6.1	92302116,	10.0.3	92309103,	10.0.11	92668920,	10.7.1
	35351883,	10.1.11	35600014,	10.1.7	92042688,	10.0.1	92094994,	10.4.3	92302355,	10.0.7	92309137,	10.0.11	92690189,	10.9.1
	35355106,	11.0	35600022,	10.1.7, 10.1.11	92042738,	10.0.1	92095363,	10.4.3	92302405,	10.0.7	92309145,	10.0.11	92691674,	10.7.1
	35355502,	10.1.11	35600030,	10.1.11	92042746,	10.0.1	92095371,	10.4.3	92302413,	10.0.7	92309152,	10.0.11	92700319,	10.6.3
	35355767,	10.1.13	35600105,	10.1.13	92042753,	10.0.1	92095389,	10.4.3	92302439,	10.0.9	92309160,	10.0.11	92705748,	11.0
	35355775,	10.1.5	35600113,	10.1.9	92042761,	10.0.1	92095397,	10.4.3	92302447,	10.0.7	92309178,	10.0.11	92707512,	10.4.1
	35355783,	10.1.11	35602457,	10.1.13	92042779,	10.0.1	92095405,	10.4.3	92302462,	10.0.9	92309186,	10.0.11	92707520,	10.4.1
	35355791,	10.1.7	35605203,	10.1.13	92042787,	10.0.1	92095413,	10.4.3	92302546,	10.0.5	92309202,	10.0.11	92707538,	10.4.1
	35355809,	10.1.3	35610153,	10.1.5	92042837,	10.0.3	92095421,	10.4.3	92302553,	10.0.5	92327212,	10.0.3	92744523,	10.1.1, 10.5.1
	35355817,	10.1.7, 10.1.11	35610195,	10.1.3	92042845,	10.0.3	92095439,	10.4.3	92302561,	10.0.5	92327519,	10.0.9	92752203,	10.4.1
	35355825,	10.1.13	35610203,	10.1.3	92042852,	10.0.3	92095447,	10.4.3	92302579,	10.0.5	92327618,	10.0.5	92765189,	10.4.3

XHP 660 CA
XHP 760 CA

CPN	Page	CPN	Page	CPN	Page	CPN	Page	CPN	Page	CPN	Page
92775691, 11.0		92893171, 10.11.1		92898923, 10.2.3		92912401, 10.6.3		92930742, 10.2.1		92955384, 10.8.1, 10.10.3	92960418, 10.0.7
92778349, 10.0.5		92893189, 10.3.3		92898931, 10.2.3		92912419, 10.2.3		92945278, 11.1		92956093, 10.6.3	92960426, 10.0.7
92789312, 11.0		92893197, 10.1.11		92898949, 10.2.1		92912427, 10.2.3		92945286, 11.0		92956135, 10.6.3, 10.10.1	92960434, 10.0.7
92789510, 11.0		92893205, 10.3.3		92898956, 10.2.5		92912954, 10.2.5		92950260, 10.2.3		92956499, 10.6.3	92960442, 10.1.1
92790153, 11.0		92893254, 10.1.1		92898964, 10.2.5		92918937, 10.11.1		92950278, 10.2.3		92956515, 10.6.1	92960673, 10.8.1
92790187, 11.0		92893965, 10.2.1		92898972, 10.2.5		92918945, 10.4.1		92950351, 10.0.3		92956598, 10.4.1	92960970, 10.5.1, 10.10.3
92795400, 10.0.9		92893973, 10.2.1		92898980, 10.2.5		92919463, 10.11.1		92950708, 10.2.3		92956606, 10.8.1	92961614, 10.5.1
92803998, 10.1.1		92893981, 10.2.1		92898998, 10.2.5		92919471, 10.11.1		92950716, 10.2.3		92956614, 10.6.1	92961895, 10.0.7
92808138, 11.1		92893999, 10.2.1		92899012, 10.2.5		92919497, 10.1.1		92950732, 11.0		92956622, 10.6.3	95000410, 10.1.9
92812932, 10.6.3		92894005, 10.2.1		92899020, 10.2.5		92920313, 10.3.1		92950740, 11.0		92956630, 10.6.1	95022331, 11.1
92814045, 10.3.3		92894047, 10.4.3		92899038, 10.7.1		92920321, 10.3.1		92950757, 11.1		92956648, 10.6.1	95022372, 10.1.3
92814052, 10.3.3		92894088, 10.2.5		92899046, 10.7.1		92920701, 10.3.3		92951029, 10.2.5		92956655, 10.6.3	95023107, 11.1
92814284, 10.11.1		92894096, 10.7.1		92899350, 10.4.1		92921168, 10.2.3		92951045, 10.3.1		92956663, 10.6.3	95023115, 11.1
92816859, 10.2.3		92894104, 10.3.3		92899368, 10.4.1		92921176, 10.2.3		92951060, 10.3.1		92956671, 10.6.3	95026290, 10.1.9
92865518, 10.1.1		92894443, 10.2.1		92899384, 10.2.5		92922855, 10.2.3		92951268, 10.8.1		92956689, 10.11.1	95045092, 11.1
92865666, 10.1.1		92894492, 10.8.1		92899863, 10.1.1		92922863, 10.2.3		92951276, 10.8.1		92956697, 10.11.1	95060745, 11.1
92865815, 10.4.3		92894542, 10.2.3		92899889, 10.2.5		92923721, 10.2.1		92951284, 10.8.1		92956820, 10.3.3, 10.10.1	95069522, 10.1.9
92867209, 10.8.1, 10.10.3		92894880, 10.6.1		92905900, 10.7.1		92923739, 10.2.1		92951466, 10.7.1		92956846, 10.8.1	95077764, 10.0.3
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92893114, 10.1.5		92898899, 10.2.1		92912393, 10.2.5		92930379, 11.0		92955376, 10.8.1, 10.10.3		92960400, 10.0.7	

Revision 00
10/92

