INGERSOLL-RAND

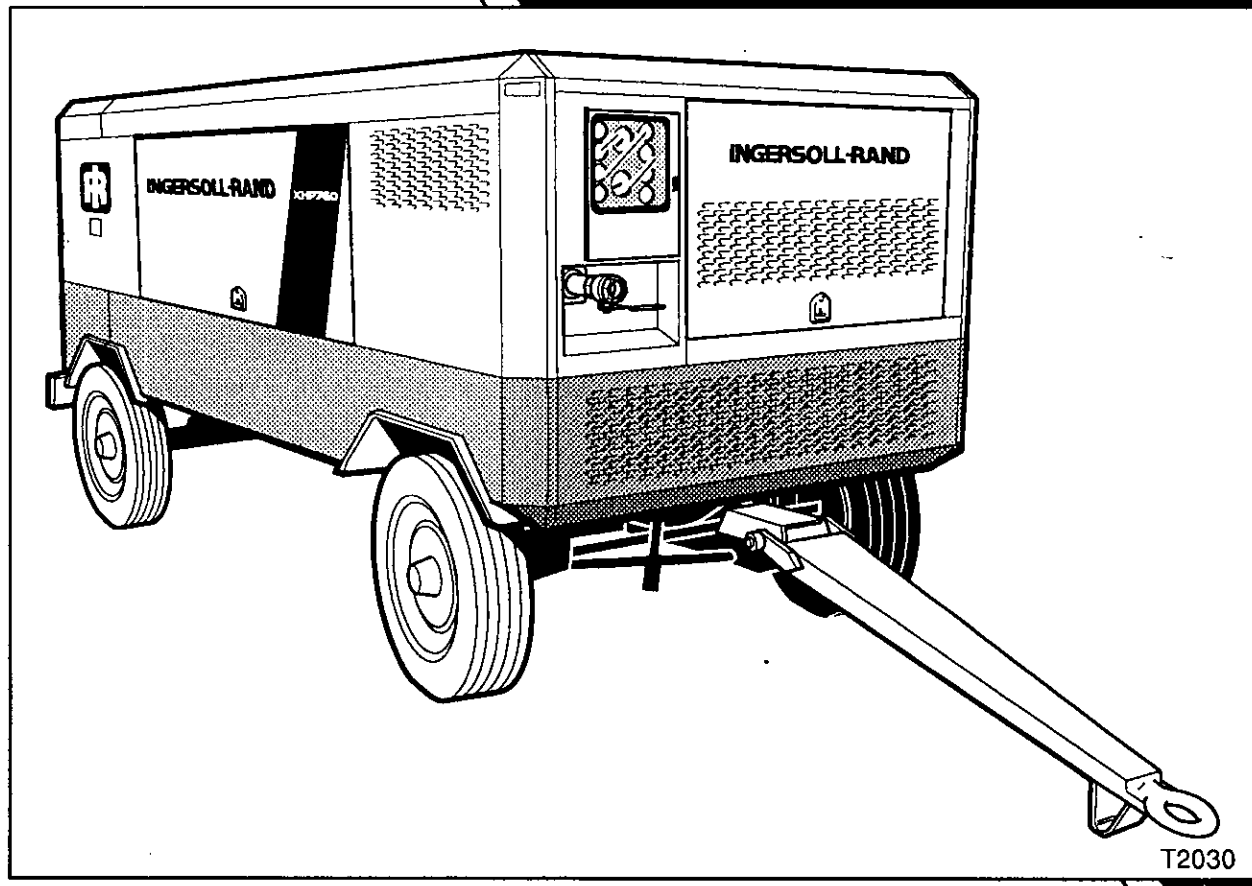
XHP660
XHP760
PORTABLE COMPRESSOR
CATERPILLAR ENGINE

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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SERIAL NUMBER RANGE 860018 **TO** 860100

CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH

THE FOLLOWING INFORMATION IS GIVEN TO ASSIST THE OWNERS/OPERATORS OF MACHINES USED IN THE UNITED KINGDOM.

FURTHER INFORMATION MAY BE OBTAINED BY REQUEST THROUGH INGERSOLL-RAND CUSTOMER SERVICES DEPARTMENT.

THE FOLLOWING SUBSTANCES ARE USED IN THE MANUFACTURE OF THIS MACHINE AND MAY BE HAZARDOUS TO HEALTH IF USED INCORRECTLY

SUBSTANCE	PRECAUTION
● Antifreeze	Avoid Ingestion, Skin Contact and Breathing of Fumes
Compressor Lubricant	Avoid Ingestion, Skin Contact and Breathing of Fumes
▲ Engine Lubricating Oil	Avoid Ingestion, Skin Contact and Breathing of Fumes
Preservative Grease	Avoid Ingestion, Skin Contact and Breathing of Fumes
Rust Preventative	Avoid Ingestion, Skin Contact and Breathing of Fumes
▲ Diesel Fuel	Avoid Ingestion, Skin Contact and Breathing of Fumes
▲ Battery	Avoid Ingestion, Skin Contact and Breathing of Fumes
Compressor Air	Avoid Breathing and Direct Jet Contact With Any Part of the Body

● Watercooled Engines Only
▲ Diesel Engined Machines Only

THE FOLLOWING SUBSTANCES MAY BE PRODUCED DURING THE OPERATION OF THIS MACHINE

SUBSTANCE	PRECAUTION
○ Brake Lining Dust	Avoid Breathing During Maintenance
○ Diesel Exhaust Fumes	Avoid Breathing
○ Diesel Exhaust Fumes	Avoid *Build-up* of Fumes in Confined Spaces
□ Electrical Motor Dust (Brushes/Insulation)	Avoid Breathing During Maintenance

○ Portable Machines Only
□ Electrically Powered Machines only

WARNING - Electrical shock risk.
ATTENTION! - Risque d'électrocution.
WAARSCHUWING! - Elektrische schok risico.
WARNUNG - Elektrische Anlage.
AVVERTENZA - Rischio di scariche elettriche.
ADVERTENCIA - Riesgo de descarga eléctrica.
ADVERTÊNCIA - Risco de choque electrico.
ADVARSEL - Risiko for elektrisk stod.
VARNING - Risk för elektriska stotar.
ADVARSEL - Fare for elektriske stot.

WARNING - Hot surface.
ATTENTION! - Surface chaude.
WAARSCHUWING! - Heet oppervlak.
WARNUNG - Heiße Oberfläche.
AVVERTENZA - Superficie calda.
ADVERTENCIA - Superficie caliente.
ADVERTÊNCIA - Superficie quente.
ADVARSEL - Varm overflade.
VARNING - Het yta.
ADVARSEL - Overflaten er varm.

WARNING - Corrosion risk.
ATTENTION! - Risque de corrosion.
WAARSCHUWING! - Bijtende vloeistof.
WARNUNG - Korrosionsrisiko.
AVVERTENZA - Rischio di corrosione.
ADVERTENCIA - Riesgo de corrosión.
ADVERTÊNCIA - Risco de corrosao.
ADVARSEL - Risiko for ætsning.
VARNING - Risk för korrosion.
ADVARSEL - Fare for rustdannelse.

WARNING - Pressurised component or system.
ATTENTION! - Composant ou système sous pression.
WAARSCHUWING! - Luchtdruk componenten of systeem.
WARNUNG - Teil oder System steht unter Druck.
AVVERTENZA - Componente o sistemi pressurizzati.
ADVERTENCIA - Sistema o componente presurizado.
ADVERTÊNCIA - Sistema ou componente pressurizado.
ADVARSEL - Komponent eller system under tryk.
VARNING - Trycksatt komponent eller system.
ADVARSEL - Komponent eller system under trykk.

Revision 00
01/93

WARNING - Pressurised vessel.
ATTENTION! - Récipient sous pression.
WAARSCHUWING! - Drukvat.
WARNUNG - Druckbehälter.
AVVERTENZA - Serbatoio in pressione.
ADVERTENCIA - Recipiente presurizado.
ADVERTÊNCIA - Recipiente pressurizado.
ADVARSEL - Tryktank.
VARNING - Tryckkärl.
ADVARSEL - Trykktank.

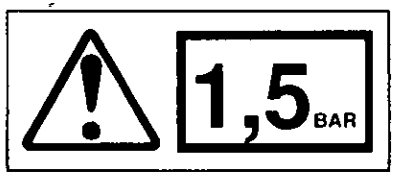
WARNING - Pressure control.
ATTENTION! - Contrôle de pression.
WAARSCHUWING! - Druk controle.
WARNUNG - Druckkontrolle.
AVVERTENZA - Controllo pressione.
ADVERTENCIA - Control de presión.
ADVERTÊNCIA - Control de pressao.
ADVARSEL - Tryk kontrol.
VARNING - Tryckkontroll.
ADVARSEL - Trykkregulator.

WARNING - Air/gas flow or Air discharge.
ATTENTION! - Flux d'air/gaz - Décharge d'air.
WAARSCHUWING! - Lucht/gas stroming of luchtuitlaat.
WARNUNG - Luft-/ Gasstromungsrichtung oder - Luftaustritt.
AVVERTENZA - Flusso di aria o gas - di aria di scarico.
ADVERTENCIA - Caudal de aire /gas - o descarga de aire.
ADVERTÊNCIA - Fluxo de ar/gas - descarga de ar.
ADVARSEL - Afgang for luft eller - gas under tryk.
VARNING - Luft/gas-flöde - eller utströmmande luft.
ADVARSEL - Luft/gass-strøm eller luft-uttak.

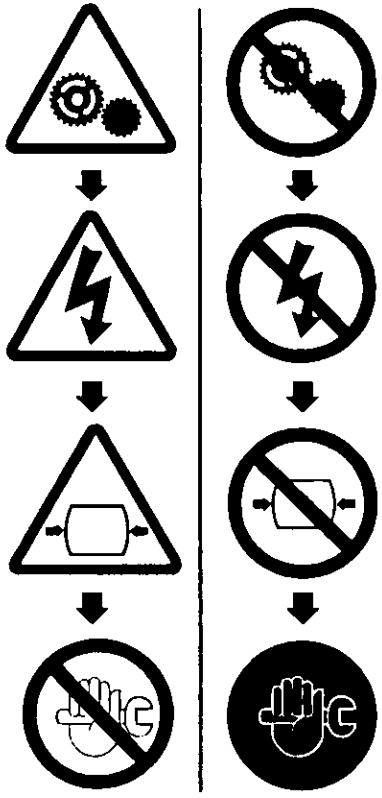
WARNING - Hot and harmful exhaust gas.
ATTENTION! - Gaz d'échappement chaud et dangereux.
WAARSCHUWING! - Hete en schadelijke uitlaatgassen.
WARNUNG - Heiße Abgase.
AVVERTENZA - Fughe di gas caldo ed esausto.
ADVERTENCIA - Gas de escape caliente y perjudicial.
ADVERTÊNCIA - Escape de gases quentes e nocivos.
ADVARSEL - Varm og skadevoldende udstødnings gas.
VARNING - Heta och skadliga avgaser.
ADVARSEL - Varm og skadelig eksos.

	SAFETY **SECURITE**	**VEILIGHEID** **SICHERHEIT**	**SICUREZZA** **SEGURIDAD**	**SEGURANÇA** **SIKKERHED**	**SÄKERHET** **SIKKERHET**

SAFETY SECURITE	VEILIGHEID SICHERHEIT	SICUREZZA SEGURIDAD	SEGURANÇA SIKKERHED	SÄKERHET SIKKERHET



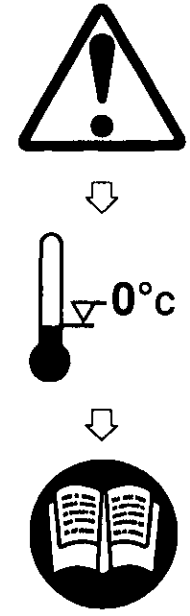
WARNING - Maintain correct tyre pressure.
ATTENTION! - Maintenir la pression correcte des pneus.
WAARSCHUWING! - Handhaaf de juiste bandenspanning.
WARNUNG - Auf korrekten Reifenluftdruck achten.
AVVERTENZA - Mantenere sotto controllo la pressione delle ruote.
ADVERTENCIA - Mantener la correcta presión de los neumáticos.
ADVERTÊNCIA - Mantenha a pressao correcta nos pneus.
ADVARSEL - Kontroler for korrekt tryk.
VARNING - Håll rätt lufttryck i däcken.
ADVARSEL - Oppretthold riktig dekktrykk.



WARNING - Do not undertake any maintenance on this machine unitil the electrical supply is disconnected and the air pressure is totally relieved.
ATTENTION! - Ne pas entreprendre de maintenance ste machine avant de déconnecter l'alimentation électrique et avant que l'air comprimé soit totalement libéré.
WAARSCHUWING! - Voer geen onderhoud uit totdat de elektrische voeding is afgesloten en de luchtdruk geheel afgeblazen is.
WARNUNG - Vor der Wartung der Maschine die Batterie abklemmen und den Druck ablassen.
AVVERTENZA - Non iniziare la manutenzione sulla macchina senza aver disinserito l'energia elettrica e scaricato completamente la pressione.
ADVERTENCIA - No realizar ningún mantenimiento en esta máquina sin haber desconectado el suministro eléctrico y sin haber aliviado la presión de aire.
ADVERTÊNCIA - Nao inicie qualquer manutençao na máquina sem que a energia electrica esteja desligada e a pressao completamente aliviada.
ADVARSEL - Begynd ikke nogen vedligeholdelse på maskinen før strømmen er slået fra og trykket er taget af systemet.
VARNING - Påbörja inte underhållsarbete på maskinen förrän batterikablarna lossats och allt tryck släppts ut.
ADVARSEL - Utfør intet vedlikeholdsarbeid før den elektriske tilførselen er utkoblet og alt lufttrykk er fullstendig evakuert.

Revision 00
01/93

WARNING - Before connecting the tow bar or commencing to tow, consult the operation and maintenance manual.
ATTENTION! - Avant d'accrocher la remorque ou de commencer à remorquer, consulter le manuel d'utilisation et d'entretien.
WAARSCHUWING! - Raadpleeg het instructie- en handboek voordat u de dissel aanhaakt of gaat rijden.
WARNUNG - Vor dem Anhängen und Schleppen der Maschine die Bedienungsanleitung beachten.
AVVERTENZA - Prima di agganciare la barra di traino o iniziare a trainare, consultare il manuale d'uso e manutenzione.
ADVERTENCIA - Antes de colocar el bulón de remolque o comenzar a remolcar, consultar el manual de operación y mantenimiento.
ADVERTÊNCIA - Antes de engatar a lança de reboque ou rebocar, consulte o manual de operaçao e conservaçao.
ADVARSEL - Før maskinen hægtes på hængertrækket, se drift- og vedligeholdelses manualen.
VARNING - Innan maskinen kopplas till bil eller börjar bogseras, var god se instruktionsboken.
ADVARSEL - Les instruksjonsboken før draget festes og tauing begynner.



WARNING - For operating temperature below 0°C, consult the operation and maintenance manual.
ATTENTION! - Pour l'utilisation en dessous de 0°C, consulter le manuel d'utilisation et d'entretien.
WAARSCHUWING! - Raadpleeg het instructie- en onderhoudsboek bij het werken onder 0°C.
WARNUNG - Bei Temperaturen unter 0°C dien Bedienungsanleitung beachten.
AVVERTENZA - Per operare a temperatura sotto gli 0 gradi C, consultare il manuale di uso e manutenzione.
ADVERTENCIA - Para trabajar a temperaturas por debajo de 0°C, consultar el manual de operacioón y mantenimiento.
ADVERTÊNCIA - Para utilizaçao em temperaturas inferiores a 0°C consulte o manual de operaçao e conservaçao.
ADVARSEL - Ved drift under 0°C, se drift- og vedligeholdelses manualen.
VARNING - Vid användning i temperatur under 0°C var god se instruktionsboken.
ADVARSEL - Les instruksjonsboken før start og drift når det er kuldegrader.

WARNING - Consult the operation and maintenance manual before commencing any maintenance.
ATTENTION! - Consulter le manuel d'utilisation et d'entretien avant d'entreprendre toute intervention.
WAARSCHUWING! - Raadpleeg het instructie- en onderhoudsboek voordat u met het onderhoud aanvangt.
WARNUNG - Vor der Wartung die Bedienungsanleitung lesen.
AVVERTENZA - Consultare il manuale d'uso e manutenzione prima di iniziare qualsiasi manutenzione.
ADVERTENCIA - Antes de realizar cualquier mantenimiento, consultar el manual de operación y mantenimiento.
ADVERTÊNCIA - Consulte o manual de operaçao e conservaçao antes de iniciar qualquer intervençao.
ADVARSEL - Før opstart og vedligeholdelsesarbejde se drift- og vedligeholdelses manualen.
VARNING - Var god se instruktionsboken innan underhållsarbete påbörjas.
ADVARSEL - Les instruksjonsboken for det iverksettes noe vedlikeholdsarbeid.

Do not breathe the compressed air from this unit.
Ne pas respirer l'air comprimé de cette machine.
Adem de uitgaande lucht niet in.
Keine Atemluft.
Non respirare l'aria compressa proveniente da questa macchina.
No respirar el aire comprimido de esta unidad.
Nao respire o ar comprimido desta unidade.
Afgangsluften fra denne kompressor må ikke bruges til indåndingsluft.
Andas inte in tryckluft direkt från maskinen.
Pust ikke inn komprimert luft fra denne maskinen.

Do not stack.
Ne pas empiler.
Niet stapelen.
Keine Gegenstände auf der Maschine abstellen.
Non accatastare.
No apilar.
Nao empilhe.
Må ikke stables.
Får ej staplas.
Stabling forbudt.

Revision 00
01/93

Do not stand on any service valve or other parts of the pressure system.
Ne pas monter sur les vannes de service ou autres pièces du système de pression.
Ga niet staan op de luchtafsluiter of enig ander onderdeel waar druk op staat.
Nicht auf die Ablaßhähne oder andere Teile des Drucksystems stellen.
Non fermarsi vicino a valvole di servizio o altre parti della linea in pressione.
No pisar ninguna otra pieza del sistema de presión.
Nao se apoie em qualquer tornira ou outros componentes do sistema de pressao.
Stå ikke på afgangsventiler eller andre dele af trykluftsystemet.
Stå inte på luftkranarna eller annan del av trycklüftsystemet.
Tråkk ikke på noen luftkraner eller andre komponenter i trykksystemet.

Do not operate with the doors or enclosure open.
Ne pas utiliser avec les portes ou les capots ouverts.
Werk niet terwijl de deuren of het omhulsel nog open zijn.
Maschine nicht mit offenen Gehäuseteilen in Betrieb nehmen.
Non operare con porte o sportelli aperti.
No trabajar con las puertas o capotas abiertas.
Nao operar com as portas ou capotagem abertas.
Må ikke sættes i drift med åben hjælm eller dækplader afmonteret.
Kör inte maskinen med huven eller luckorna öppna.
Kjør ikke med noen dører eller deksler åpne.

Do not use fork lift truck from this side.
Ne pas utiliser de fourche pour soulever de ce côté.
Gebruik geen heftruck aan deze zijde.
Gabelstapler nicht von dieser Seite ansetzen.
Non usare il carello elevatore da questa parte.
No utilizar la carretilla elevadora en esta lado.
Nao utilize o empilhador deste lado.
Brug ikke gaffeltruck fra denne side.
Använd inte gaffeltruck från denna sida.
Bruk ikke gaffeltruck fra denne siden.

	SAFETY **SECURITE**	**VEILIGHEID** **SICHERHEIT**	**SICUREZZA** **SEGURIDAD**	**SEGURANÇA** **SIKKERHED**	**SÄKERHET** **SIKKERHET**

SAFETY SECURITE	VEILIGHEID SICHERHEIT	SICUREZZA SEGURIDAD	SEGURANÇA SIKKERHED	SÄKERHET SIKKERHET

Do not remove the operating and maintenance manual and manual holder from this machine.
Ne pas enlever le manuel d'utilisation et de maintenance de cette machine.
Verwijder het handboek en de handboekhouder niet uit deze machine.
Bedienungsanleitung inkl. Ablage immer an der Maschine lassen.
Non rimuovere da questa macchina il manuale d'uso e manutenzione dal suo alloggiamento.
No quitar el manual de operación y mantenimiento ni su bolsa de esta máquina.
Nao retire os manuais da maquina.
Fjern ikke drift- og vedligeholdelsesmanualen og dennes holder fra maskinen.
Avlägsna inte instruktionsboken eller hållaren från maskinen.
Fjern ikke instruksjonsboken eller dens holder fra denne maskinen.

Do not operate the machine without the guard being fitted.
Ne pas utiliser sans les protections équipant cette machine.
Niet met de machine draaien zonder de ventilatorkooi.
Maschine nicht ohne Schutzgitter in Betrieb nehmen.
Non operare con la macchina senza aver fissato la protezione.
No operar la máquina sin que la protección este fijada.
Nao utilize a máquina sem as protecçoes.
Brug ikke maskinen uden alle sikkerheds skærme er monteret.
Använd inte maskinen utan att skyddet är monterat.
Kjør ikke maskinen uten at alle sikkerhetsdeksler er på plass.

Emergency stop.
Arrêt d'urgence.
Noodstop.
Notausschalter.
Pulsante fermata emergenza.
Para de emergencia.
Paragem de emergencia.
Nødstop.
Nödstopp.
Nødstopp.

On (power).
Marche.
Aan (spanning).
Ein.
Acceso.
Encendido (energia).
Ligado (energia).
Tilsluttet (strom).
På (ström).
Tenning "PA".

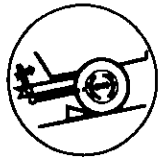
Off (power).
Arrêt.
Uit (spanning).
Aus.
Spento.
Apagado (energia).
Desligado (energia).
Afbrudt (strøm).
Av (ström).
Tenning "AV".

Do not exceed the trailer speed limit.
Ne pas dépasser la vitesse limite de la remorque.
Toegestane snelheid niet overschrijden.
Zulässige Höchstgeschwindigkeit.
Non superare il limite di velocita.
No exeder el limite de velocidad del remolque.
Nao exceder o limite da velocidade de reboque.
Overskrid ikke fartgrænsen for traileren.
Överskrid inte gällande hastighetsbestämmelser.
Overstig ikke tilhengerens hastighetsgrense.

Use fork lift truck from this side only.
Pour le levage avec fourche, n'utiliser que ce côté.
Gebruik heftruck alleen aan deze zijde.
Gabelstapler nur von dieser Seite ansetzen.
Usare il carrello elevatore solo da questa parte.
Utilizar la carretilla elevadora en esta lado.
Use o emplihador apenas deste lado.
Gaffeltruck må kun bruges fra denne side.
Använd gaffeltruck endast från denna sida.
Bruk gaffeltruck kun fra denne siden.

Revision 00
01/93

Read the operation and maintenance manual before operation or maintenance of this machine is undertaken.
Lire le manuel d'utilisation et de maintenance de cette machine avant d'intervenir.
Lees het instructie- en onderhoudsboek voordat u gaat draaien of onderhoud gaat uitvoeren.
Bedienungs- u. Wartungsanleitung vor der Inbetriebnahme bzw. Wartung lesen.
Leggere il manuale d'uso e manutenzione prima di iniziare qualsiasi operazione con la macchina.
Antes de operar o llevar a cabo ningún mantenimiento, leer el manual de operación y mantenimiento de esta máquina.
Leia e compreenda o manual de operaçao e conservaçao desta maquina antes de utilizar ou manutencionar.
Læs drift- og vedligeholdelses manualen før der startes op eller vedligeholdelse begyndes.
Läs instruktionsboken innan maskinen användes eller underhållsarbete påbörjas.
Les instruksjonsboken før det iverksettes drift eller reparasjon av denne maskinen.



When parking use prop stand, handbrake and wheel chocks.
Lors de l'arrêt de la machine, utiliser le frein à main et caler sous les roues.
Gebruik de machinesteun, handrem en wielkeggen wanneer u parkeert.
Beim Parken Stützfuß ausfahren, Standbremse anziehen und Unterlegkeil vor das Rad legen.
Quando si parcheggia il compressore usare il piede d'appoggio, il freno a mano e il cuneo.
Al aparcar coloque la máquina correctamente, use el freno de mano y los calzos de las ruedas.
Quando parquear escolha local apropriado, aplique o travao de mao e calços nas rodas.
Ved parkering brug støttehjulet og håndbremsen. Anbring eventuelt en sten eller lignende under hjulet.
Använd stödben, handbroms och bromsklotsar vid parkering.
Benytt støtteben, håndbrekk og blokkeringsutstyr når maskinen parkeres.

Lifting point.
Point de levage.
Hijspunt.
Hebepunkt.
Punto di carico.
Punto de elevación.
Ponto de suspensao.
Løfte punkt.
Lyft-punkt.
Løftepunkt.

Tie down point.
Point d'accroche.
Trekstangpunt.
Bewegungspunkt.
Punto di scarico.
Punto de amarre.
Ponto de amaraçao.
Anhugningspunkt.
Surrnings-ställe.
Strammepunkt.

Revision 00
01/93

	SAFETY **SECURITE**	**VEILIGHEID** **SICHERHEIT**	**SICUREZZA** **SEGURIDAD**	**SEGURANÇA** **SIKKERHED**	**SÄKERHET** **SIKKERHET**

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

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

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

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

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

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.

VOORZICHTIG!
'Voorzichtig' vestigt de aandacht op instrukties die striktop gevolgd dienen te worden om schade aan het produkt en/of de omgeving te voorkomen.

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

NOTES
Notes are used for supplementary information.

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

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

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 POUR LA SECURITE

VEILIGHEIDSMAATREGELEN

SICHERHEITSVORKEHRUNGEN

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 74dB (A).

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

2.0 CONTENTS

XHP 660 CA
XHP 760 CA

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

ABBREVATIONS

*	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	_____

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INGERSOLL-RAND

XHP660
XHP760
PORTABLE COMPRESSOR

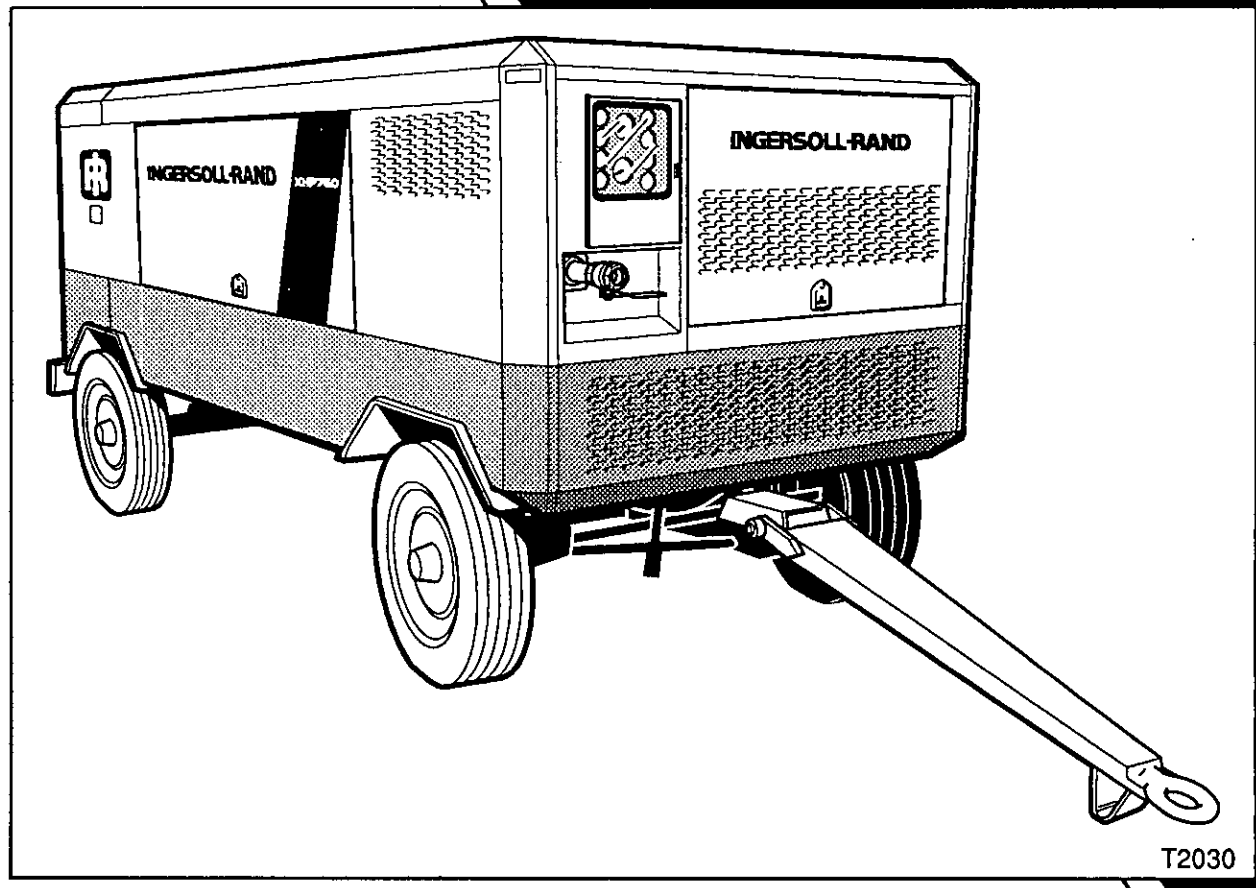
CATERPILLAR ENGINE

OPERATION AND MAINTENANCE MANUAL

MANUAL D'UTILISATION ET D'ENTRETIEN

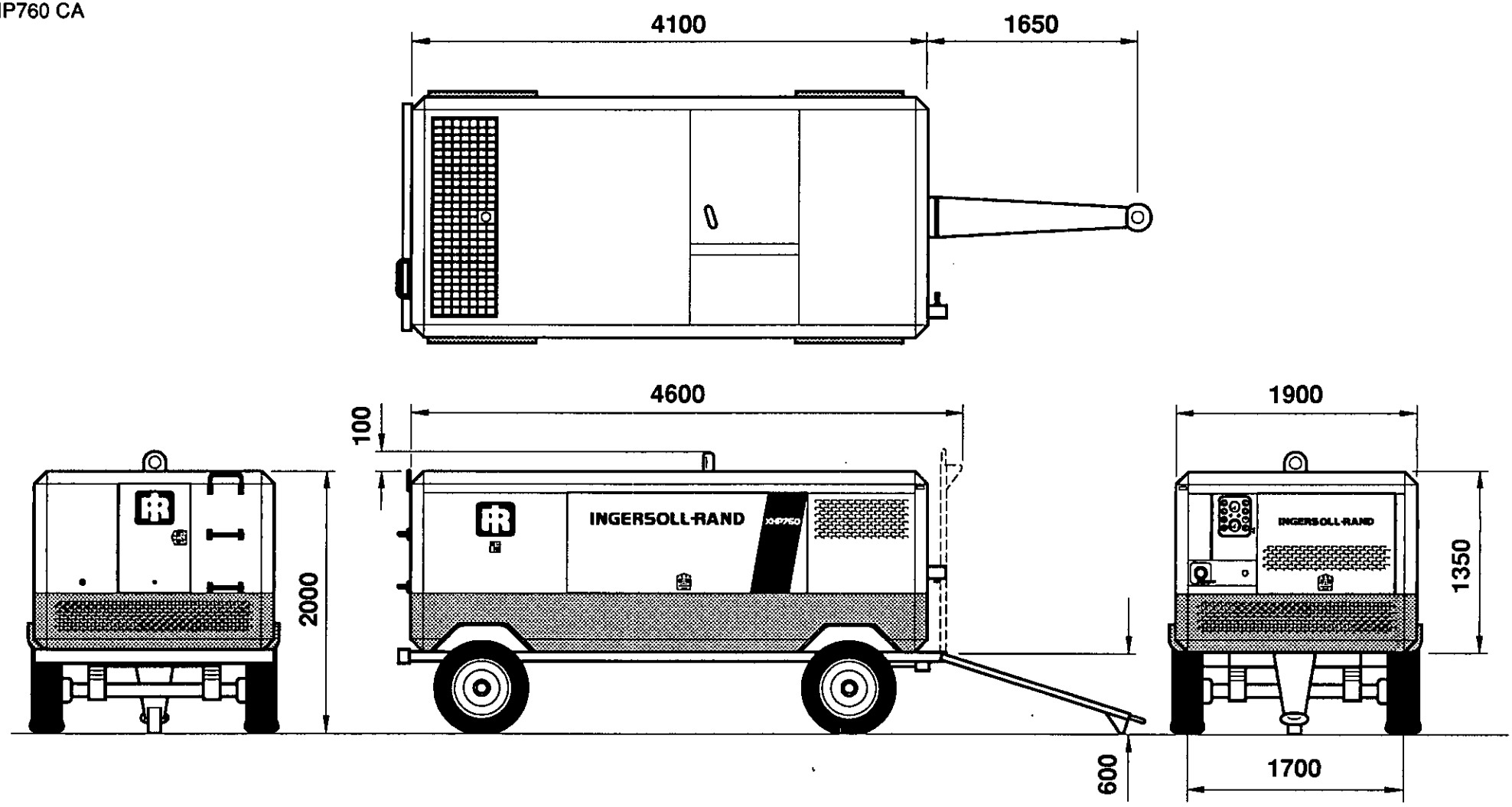
BEDIENINGS EN ONDERHOUDSHANDBOEK

BEDIENUNGS-UND WARTUNGSANLEITUNG



T2030

XHP660 CA
XHP760 CA



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NUR ORIGINAL–INGERSOLL–RAND–ERSATZTEILE VERWENDEN

Revision 00
10/92

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.	1300 rpm
Electrical system.	24V DC Neg. Earth
Power available at 1850 rpm	300 bhp (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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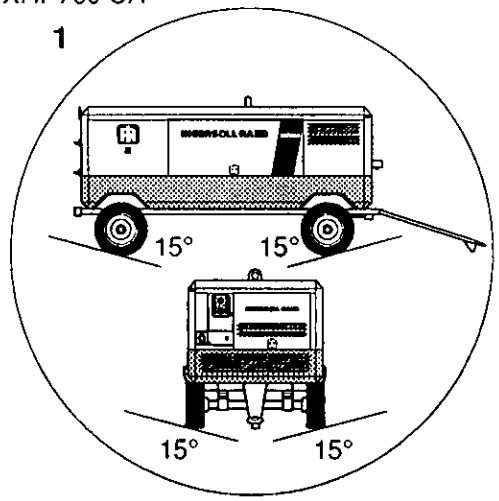
Revision 00
10/92

5.0 OPERATING INSTRUCTIONS

XHP660 CA
XHP760 CA

1



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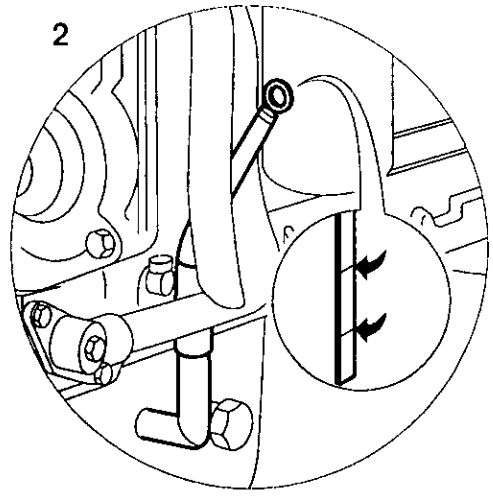

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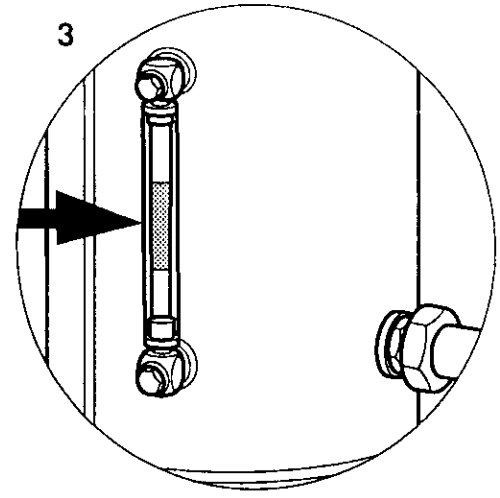

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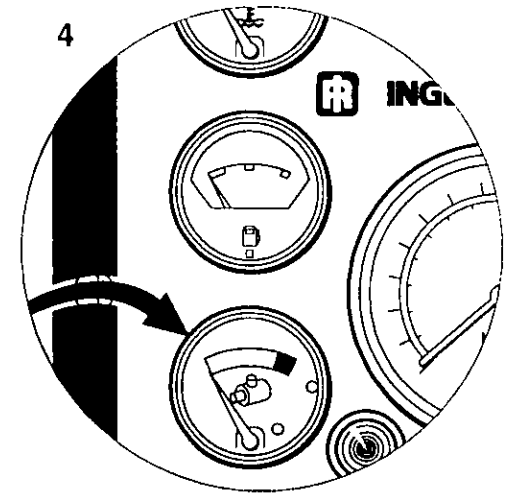

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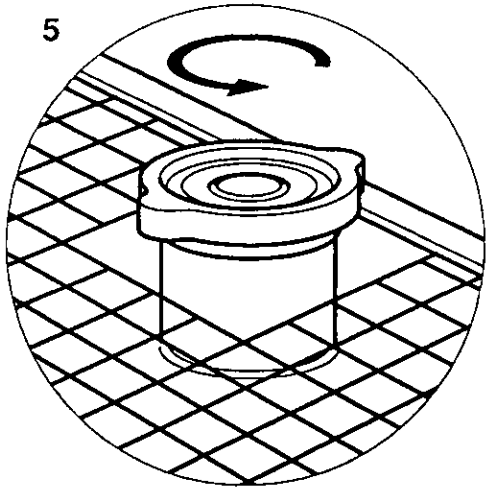

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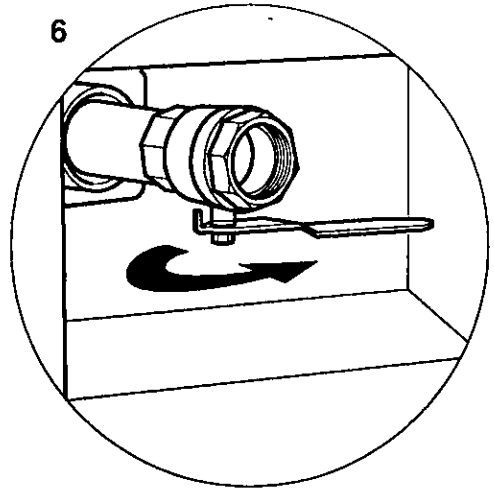

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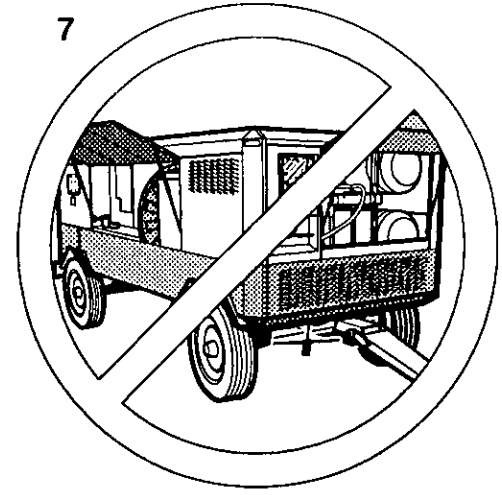

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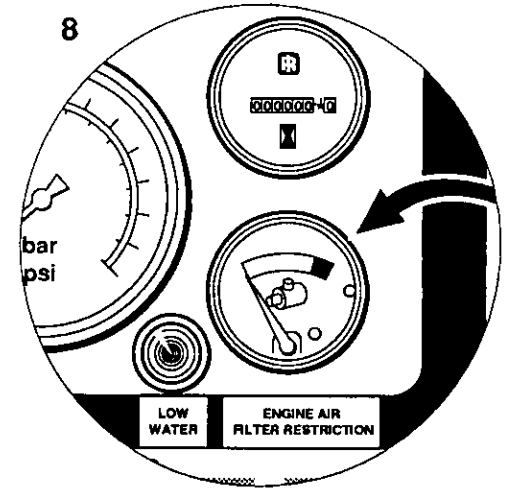


T2034
Revision 00
10/92

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.*

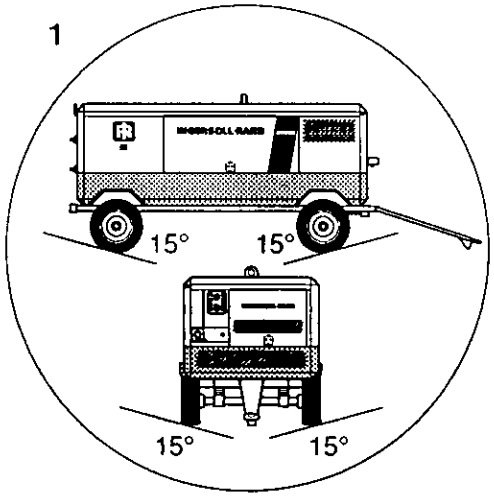
2: Check the engine lubrication oil in accordance with the operating instructions in the *Engine Operator's Manual.*

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

5.2 OPERATING INSTRUCTIONS

XHP660 CA
XHP760 CA

1



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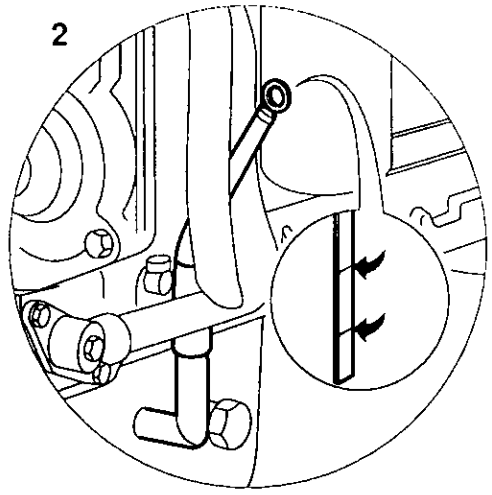

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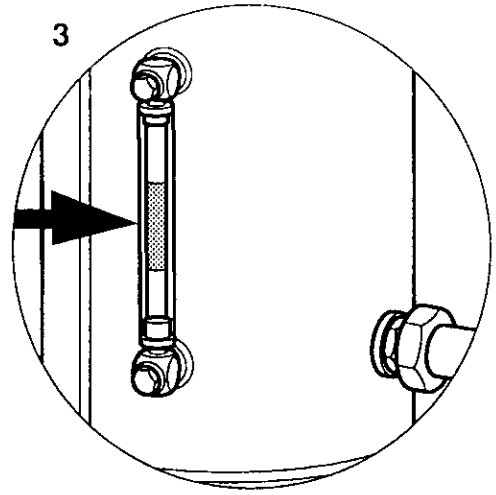

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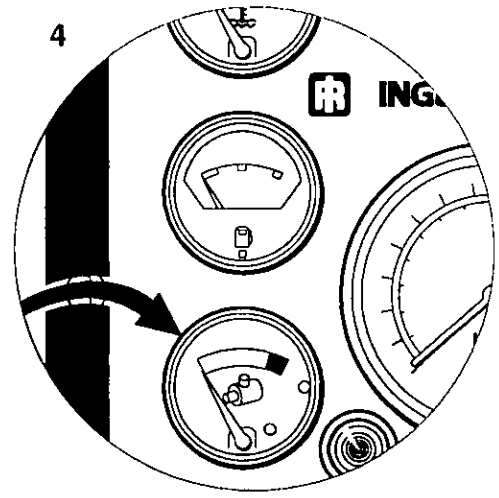

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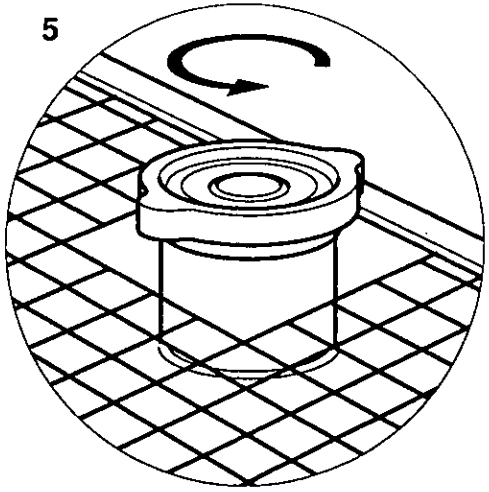

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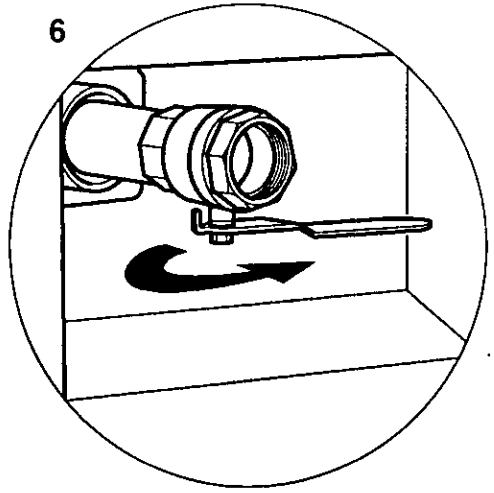

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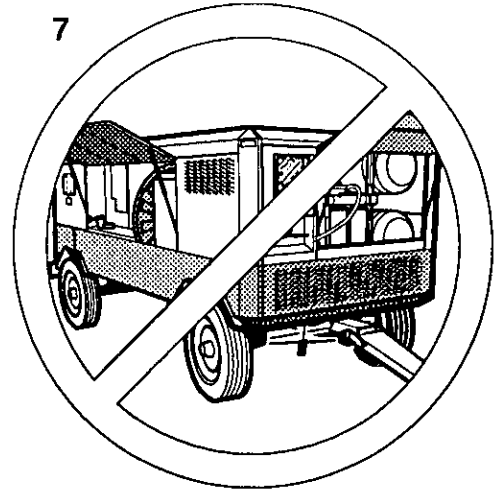

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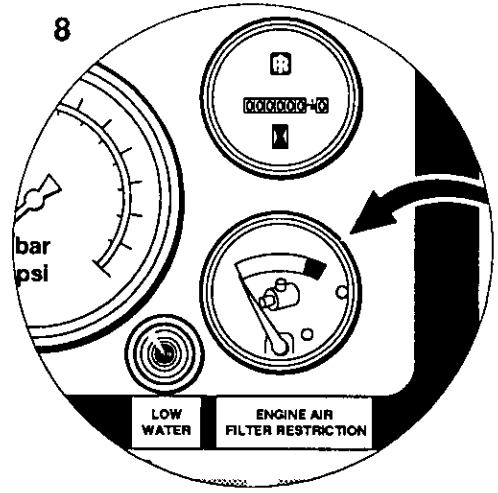


T2034
Revision 00
10/92

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.

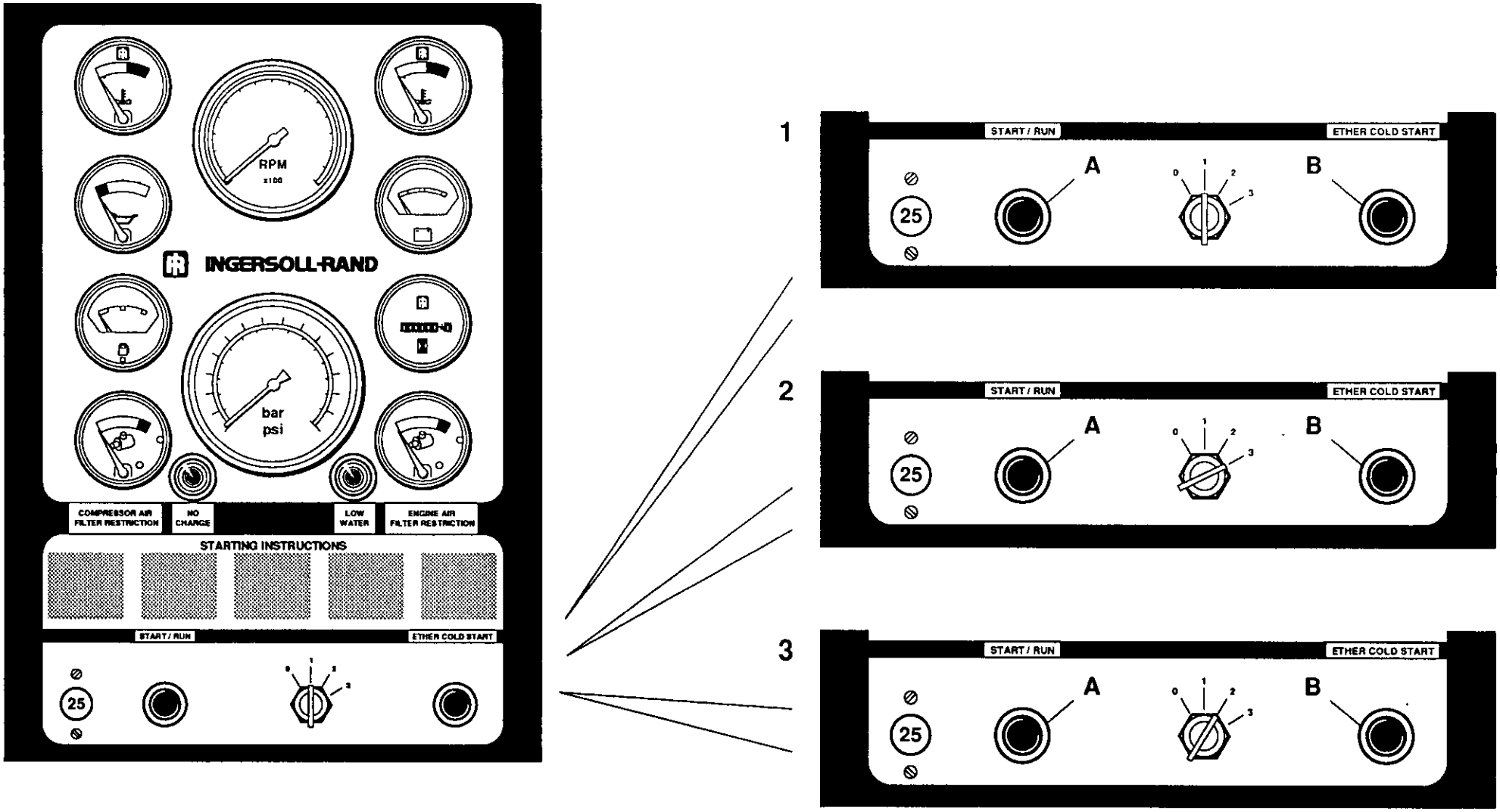
7: ***CAUTION:*** *Do not operate the machine with the canopy/doors in the open position as this may cause overheating and operators to be exposed to high noise levels.*

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.*

5.4 OPERATING INSTRUCTIONS

XHP660 CA
XHP760 CA



T2036
Revision 01
01/93

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 and the engine oil pressure gauge indicates green. 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 persistantly 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.

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 and the engine oil pressure gauge indicates green. 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. This pressure may be relieved by operating the manual *blowdown* valve slowly.

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

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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Revision 00
10/92

XHP 660 CA
XHP 760 CA

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

Revision 00
10/92

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, two fusible links, 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 – **DO NOT PRESS THE START–RUN BUTTON.**
. Disconnect each switch in turn – the unit should shutdown.
. Re–connect the switch.

At three month intervals, test both fusible links as follows:

. Start the unit – **DO NOT PRESS THE START–RUN BUTTON.**
. Disconnect each link in turn – the unit should shutdown.
. Re–connect the link.

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 aproximately 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 AND COMPRESSOR AIR FILTER ELEMENTS

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 exterior of filter housing.
Remove end cap and empty dust collector box.
unscrew hex. nut securing main element to housing.
Remove element.
Clean inside of housing.

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.

NOTE: Renew safety element if inspection reveals damage to main element.

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 hex. nut.

XHP 660 CA
XHP 760 CA

ENGINE AND COMPRESSOR AIR FILTER ELEMENTS (Re–assembly) continued.....

Reset the restriction indicator by depressing the rubber diaphragm.

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

Ensure the arrow and 'top' marking on the collector box is 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.

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 presesnt in the fuel system, then, with the machine stopped 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.

XHP 660 CA
XHP 760 CA

WATER AGGLOMERATOR

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

HOSES

All components of the engine/compressor cooling 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 service 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.

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).

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

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.*

INGERSOLL-RAND.

USE ONLY GENUINE INGERSOLL–RAND PARTS

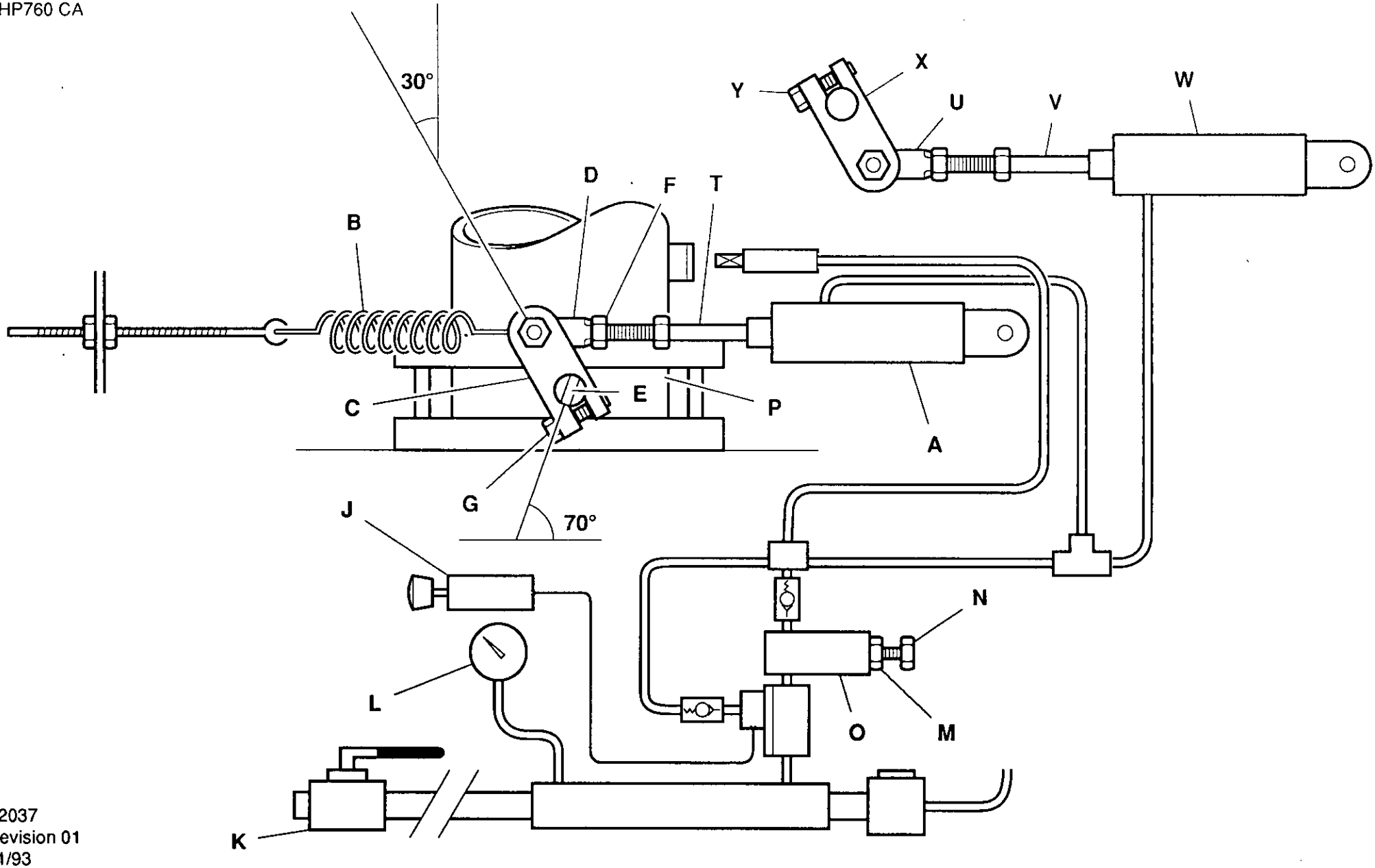
N'UTILISER QUE LES VERITABLES PIECES DETACHEES INGERSOLL–RAND

GEBRUIK ALLEEN ORIGINELE ONDERDELEN VAN INGERSOLL–RAND

NUR ORIGINAL–INGERSOLL–RAND–ERSATZTEILE VERWENDEN

Revision 00
10/92

XHP660 CA
XHP760 CA



T2037
Revision 01
01/93

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 10,5 bar.

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

BEFORE STARTING UNIT:

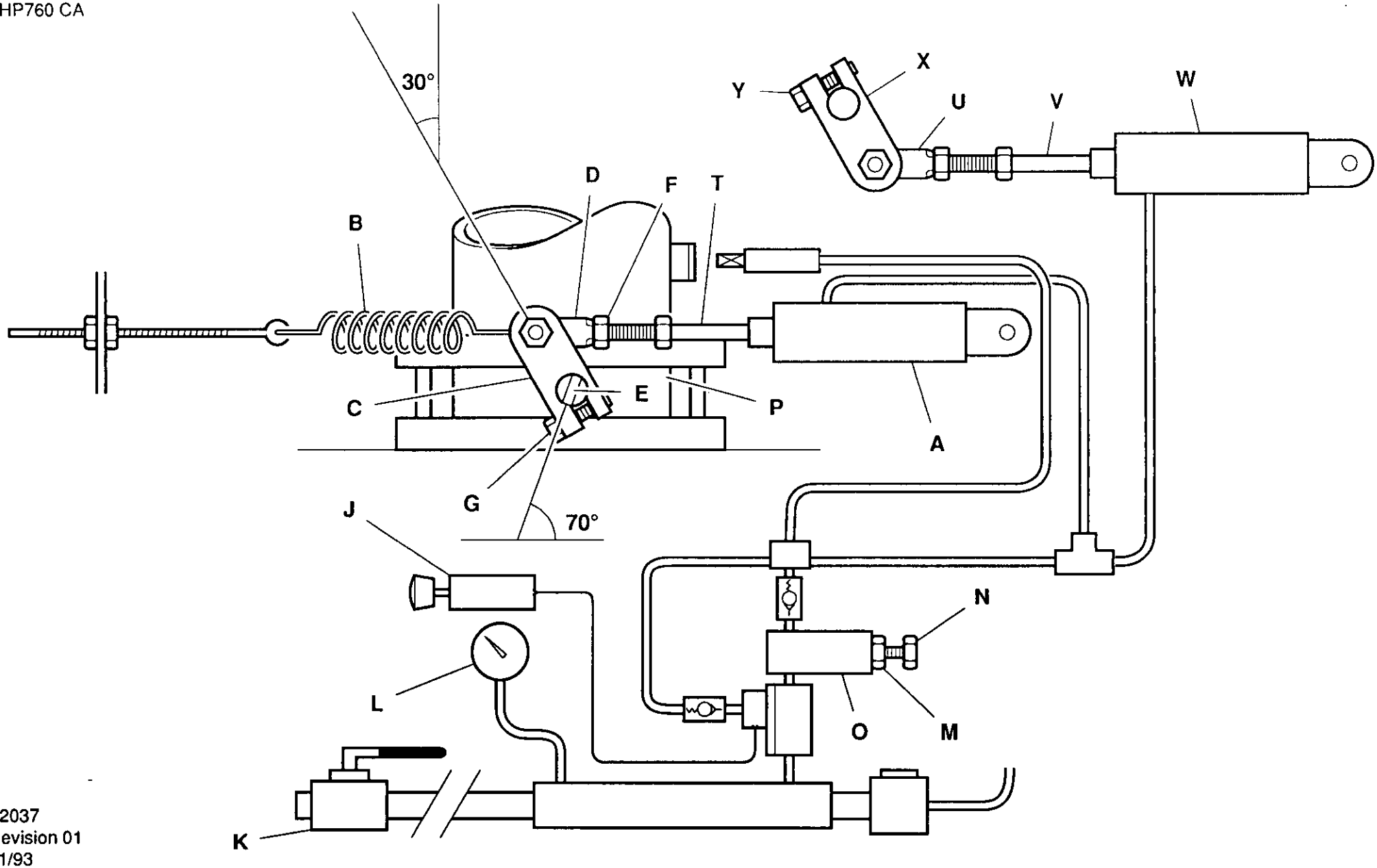
1. With the unit stopped, disconnect the ballast spring (**B**) and ball joint (**D**) from the butterfly valve pivot lever (**C**). Ensure that the ball joint is fully screwed onto the air cylinder rod (**T**). Reconnect the ball joint to the lever. Loosen setscrew (**G**).

2 Hold the air cylinder (**A**) in the fully retracted position with the butterfly valve fully closed. Tighten the setscrew (**G**). Screw the cylinder rod from the ball joint one turn.

AFTER STARTING UNIT:

3 Start the machine, note the warm up air pressure. If below 50psi (3,5 bar) slowly unscrew the cylinder rod from the ball joint until 50psi (3,5 bar is achieved. If the warm up pressure is above 50psi (3,5 bar) stop the machine. Screw the cylinder rod into the ball joint. Restart and check the pressure on the gauge. Repeat if necessary. When the warm up pressure reads 50psi (3,5 bar) the butterfly valve is correctly set.

XHP660 CA
XHP760 CA



T2037
Revision 01
01/93

SPEED AND PRESSURE REGULATION ADJUSTMENT continued.....

Refer to diagram on page 6.20

AFTER STARTING THE UNIT:

4. Allow engine to warm up. Push the load button (**J**) on the control panel.

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

6. To select any discharge pressure between 10.5 and 21 bar, change the adjustment of the pressure regulator to obtain the desired discharge pressure at full speed. Rotate the knob on the pressure regulator clockwise to increase the pressure and counter clockwise to decrease.

7. Adjust the idle speed by adjusting the ball joint on the end of the engine speed cylinder rod (**V**).

(*) – See GENERAL INFORMATION specifications.

XHP 660 CA
XHP 760 CA

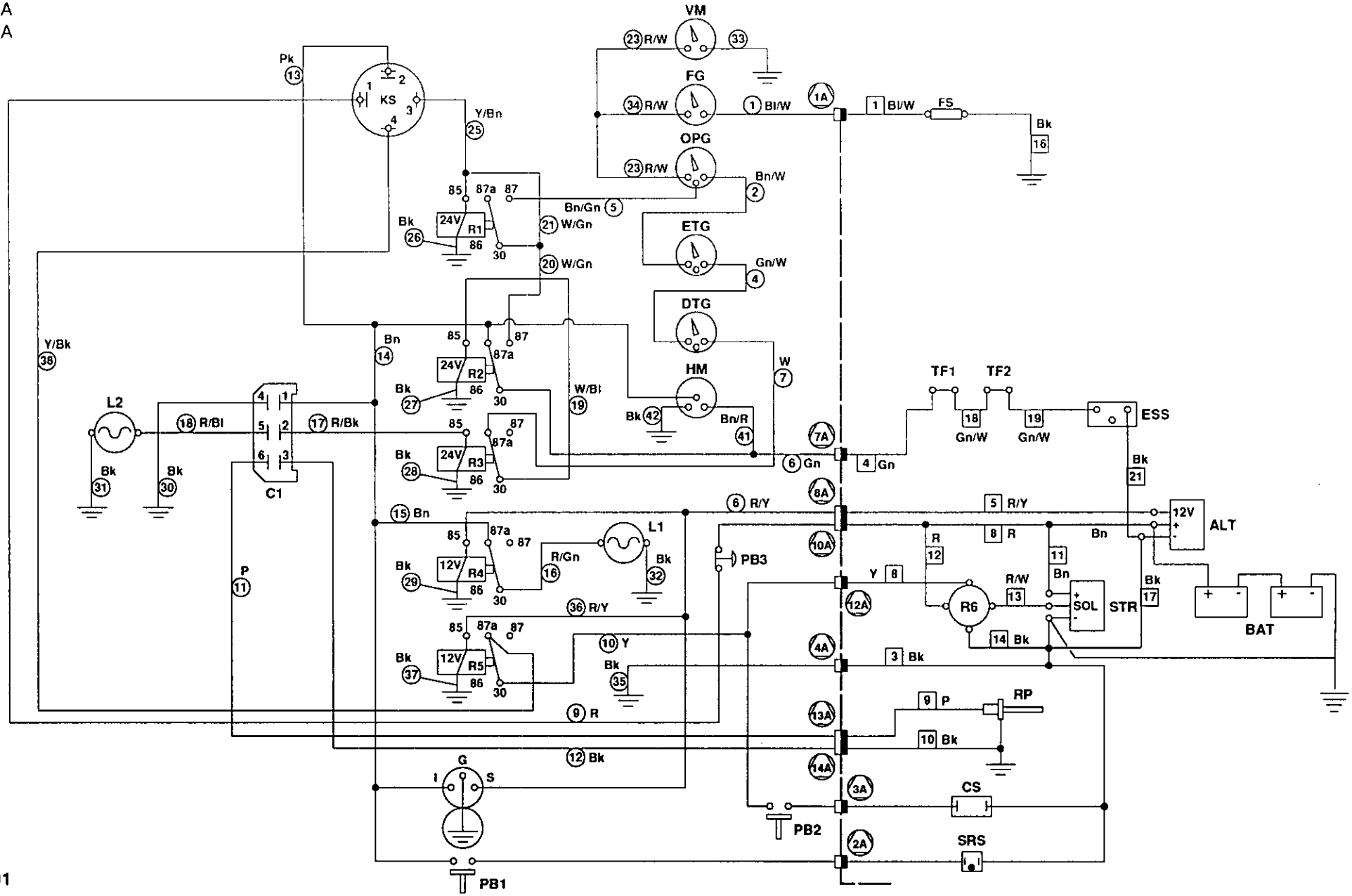
	Size	Nm
Wheel nuts	M22	220
Drive ring to flywheel	3/8 UNC	35
Tannkrans mot svinghjul		
Airend to engine	7/16 UNC	50
Mounting bracket to airend	M20	237
Resilient mounts to frame	3/4 UNC	154
Cylinder bracket to engine	3/8	24
Starter motor terminals	1/2	24
Engine exhaust pipe to turbo	M12	39

	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

	Sizes	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

Size	Nm

XHP660 CA
XHP760 CA

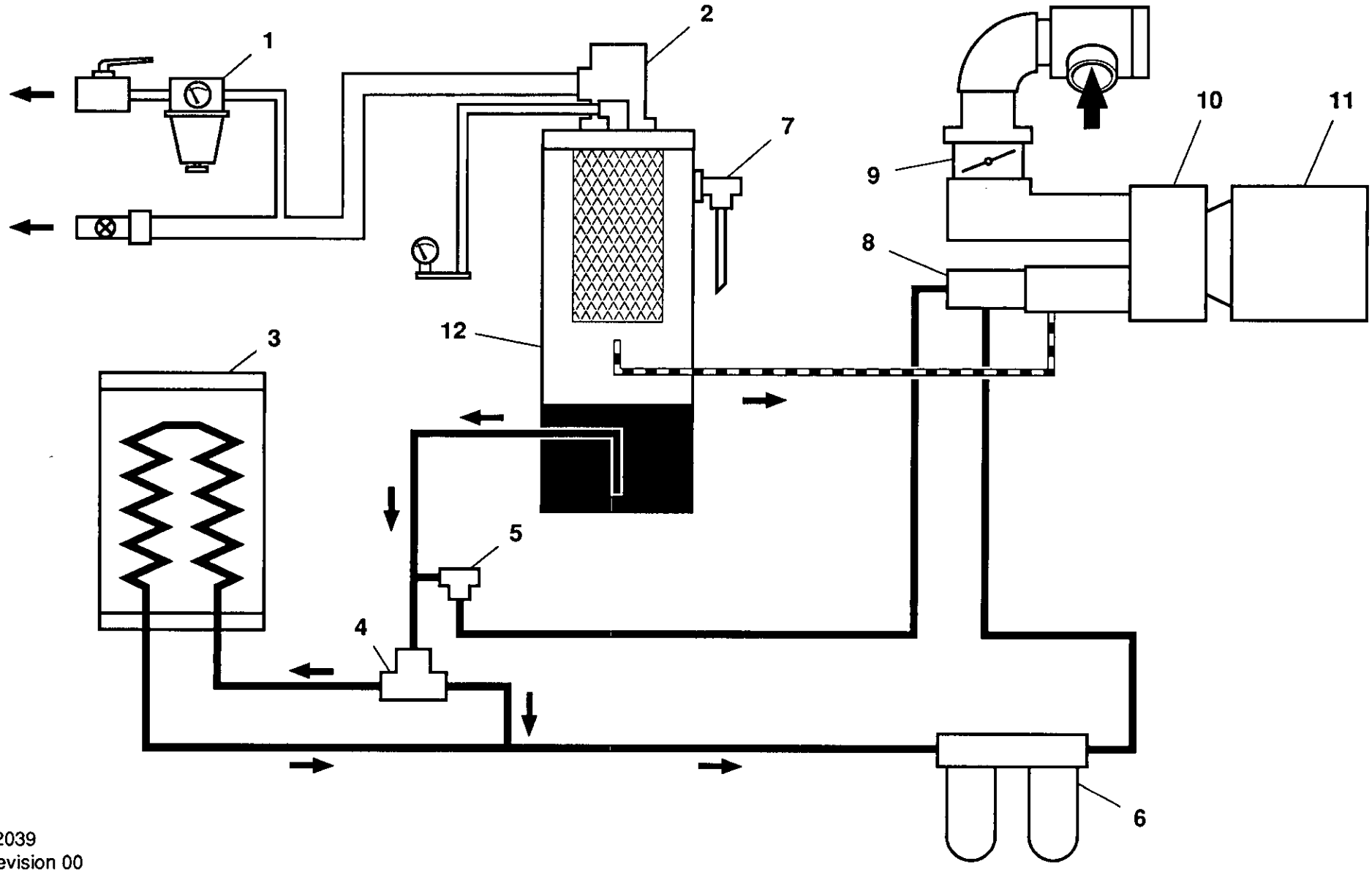


KEY

BAT	Battery 12 volt
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. Circuit breaker 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
⑥	Wire number
4	Wire number–engine wiring
	Multipole connector
23A	Pin No. in multipole connector

7.2 OIL / AIR SYSTEM

XHP660 CA
XHP760 CA



T2039
Revision 00
10/92

XHP 660 CA
XHP 760 CA

1	PRESSURE REDUCER	1		1		1	
2	MINIMUM PRESSURE VALVE	2		2		2	
3	OIL COOLER	3	REFRIGERANT D'HUILE	3	OLIEKOELER	3	ÖLKÜHLER
4.	TEMPERATURE BYPASS VALVE	4		4		4	
5	OIL PRESSURE BYPASS VALVE	5		5		5	
6	OIL FILTER	6	FILTRE D'HUILE	6	OLIEFILTER	6	ÖLFILTER
7	SAFETY VALVE	7	SOUPAPE DE SÉCURITÉ	7	VEILIGHEIDSKLEP	7	SICHERHEITSVENTIL
8	OIL PUMP	8		8		8	
9	BUTTERFLY VALVE	9		9		9	
10	COMPRESSOR	10	COMPRESSEUR	10	KOMPRESSOR	10	KOMPRESSOR
11.	ENGINE	11		11		11	
12.	SEPARATOR TANK	12	RÉSERVOIR SÉPARATEUR	12	AFSCHEIDERTANK	12	ABSCHEIDEBEHÄLTER
	OIL		HUILE		OLIE		ÖL
	AIR		AIR		LUCHT		LUFT
	OIL/AIR		HUILE/AIR		OLIE/LUCHT		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.	Check battery connections & re-charge battery if neccessary
	Circuit breaker out.	Press in re-set button.
Engine fails to start.(Starter motor operating)	Loose wire to stop soleniod.	Check wiring.
	Fusible plug blown.	Check fuseable plugs on top of separator tank, and in discharge pipe.
	Faulty stop solenoid.	Check stop solenoid.
	Fuel starvation.	Manually pump fuel until fuel pressure gauge shows green.
	Air in fuel system.	Bleed fuel system to injectors, while operating manual lift pump.
	Faulty start switch	Check switch.
Engine stops when key switch is released.	Low engine oil pressure.	Check oil level. Check for blocked oil filter.
	Low water level.	Check if low water lamp is extinguished.
	Faulty wiring.	Check wiring circuit.
	Faulty relay.	Check relays.
	Faulty key switch.	Check key switch.
Engine stops	No fuel	Check level in tanks, and fuel filters.
	Water in fuel system.	Check water trap and clean if required.
	High discharge temperature.	Check discharge temperature gauge.
	High water temperature.	Check water temperature gauge.
	Low engine oil pressure.	Check oil level. Check for blocked oil filter. Check switchgauge.
	Faulty wiring.	Check wiring circuit for loose connections.
	Faulty relay.	Check relay in holder. areplace if neccessary.
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 soleniod.	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.	Reset butterfly valve. (See MAINTENANCE, Speed and pressure regulation adjustment).
	Incorrectly set pressure regulator.	Check pressure regulator actuating pressure.
	Loose pipe/hose connections.	Check all connections.
	Faulty safety valve.	Check relieving pressure. Replace valve if faulty. **Do not attempt a repair**
Oil is emmited from the compressor air filter.	Incorrect stopping procedure.	Always employ correct stopping procedure. Close discharge valve and allow machine to run on idle before stopping.
	Faulty discharge check valve.	Dismantle, valve from discharge pipe and check operation.
	Machine stalls when required to idle.	Check operation of regulation system. Check and adjust idle speed if neccessary.
Excessive compressor oil temperature.	Low oil level.	Check oil level, and replenish to top of green sector in sight glass.
	Blocked oil cooler fins.	Clean cooling fins with compessed air or steam. while machine is stopped. Use only reduced pressure for cleaning fins.
	Faulty temperature bypass valve.	Check bypass valve. (See MAINTENANCE, Protective shutdown system).
	Faulty oil pump	Check oil pump drive coupling.
	Reduced cooling air from fan.	Check fan and belts. Check for obstruction inside cowl.
Excessive engine water temperature.	Low water level.	Check and replenish.
	Blocked radiator fins.	Clean cooling fins with compessed air or steam while machine is stopped. Use only reduced pressure for cleaning fins.
	Reduced cooling air from fan	Check fan and belts. Check for obstruction inside cowl.
	Faulty thermostat.	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.	Replace filter elements.
	Air leak in pressure system.	Trace leak and rectify.
	Low engine speed.	Test engine speed with tachometer. Reset air cylinder if neccessary. (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 neccessary.
	Defective minimum pressure valve.	Check minimum pressure valve. Pressure should be a minimum of 150 psi.
Low engine RPM	Blocked air filter.	Clean or replace element.
	Restricted fuel filters.	Clean filter and replace elements.
	Premature unloading.	Check regulation and operation of air cylinder.
	Engine or airend malfunctioning.	Reduce operating pressure to see if engine speed increases.

INGERSOLL-RAND

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

Revision 00
10/92

9.0 OPTIONS

XHP 660 CA
XHP 760 CA

Revision 00
10/92

9.1 OPTIONS

INGERSOLL-RAND

XHP660
XHP760
PORTABLE COMPRESSOR

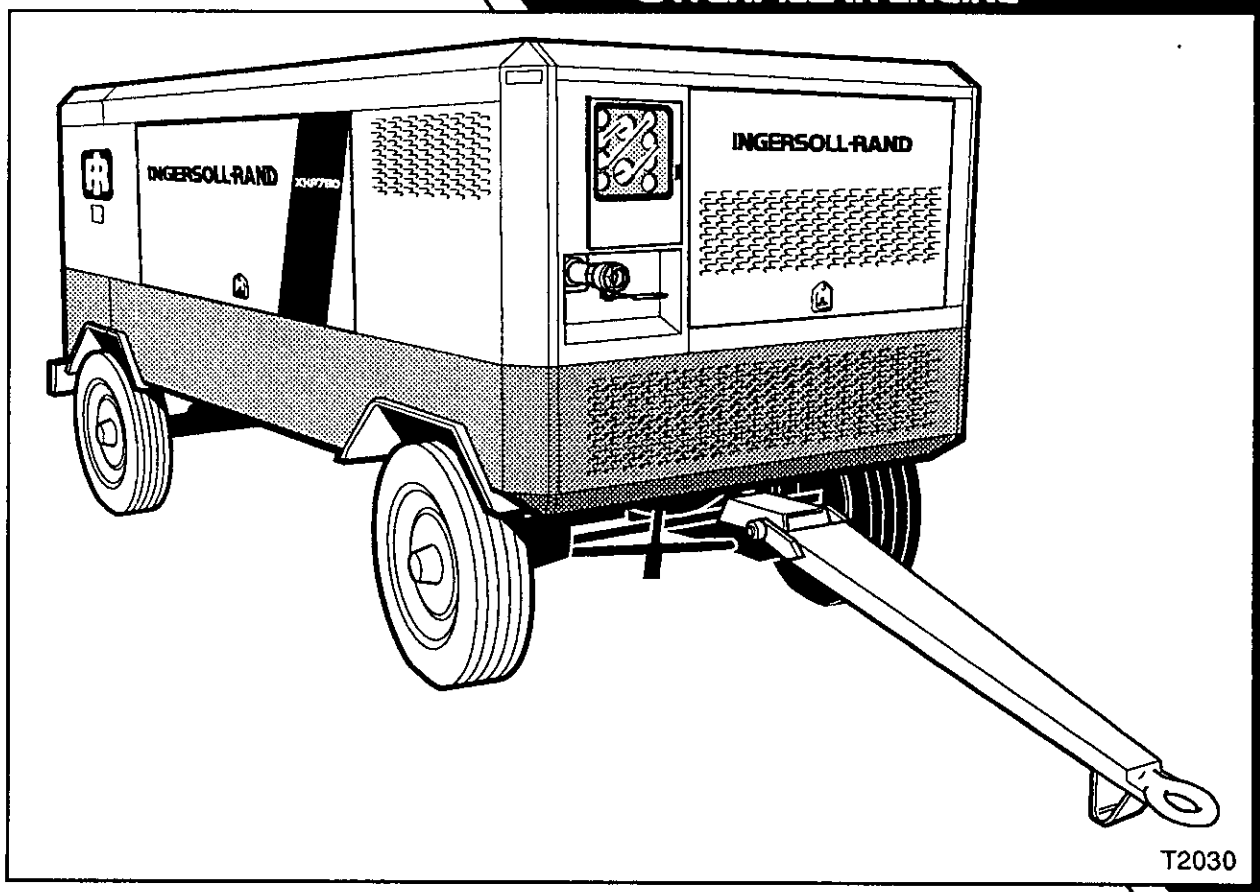
CATERPILLAR ENGINE

PARTS CATALOGUE

CATALOGUE DE PIECES DETACHEE

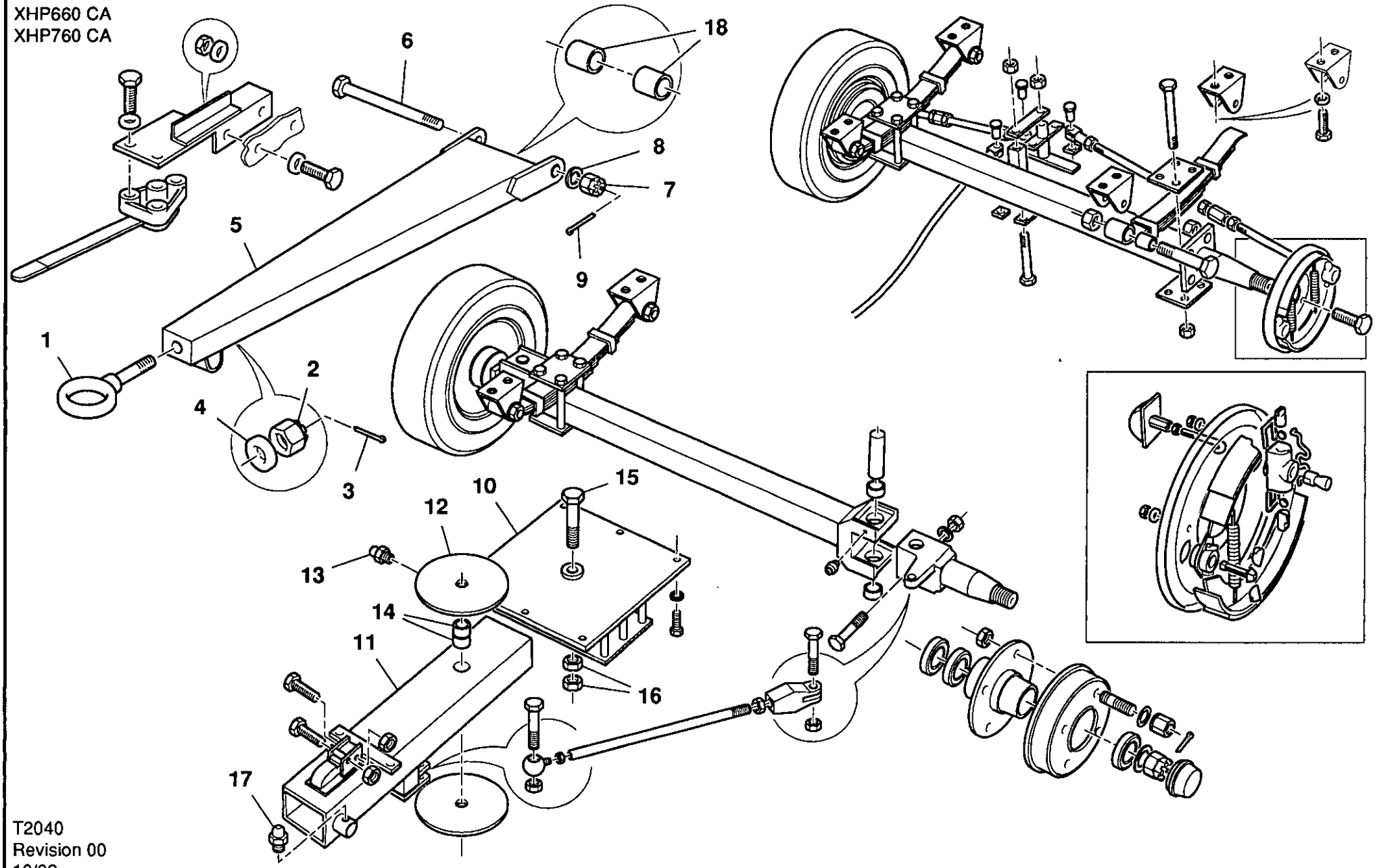
ONDERDELENKATALOGUS

ERSATZTEILLISTE



10.0.0 RUNNING GEAR -UNBRAKED

XHP660 CA
XHP760 CA

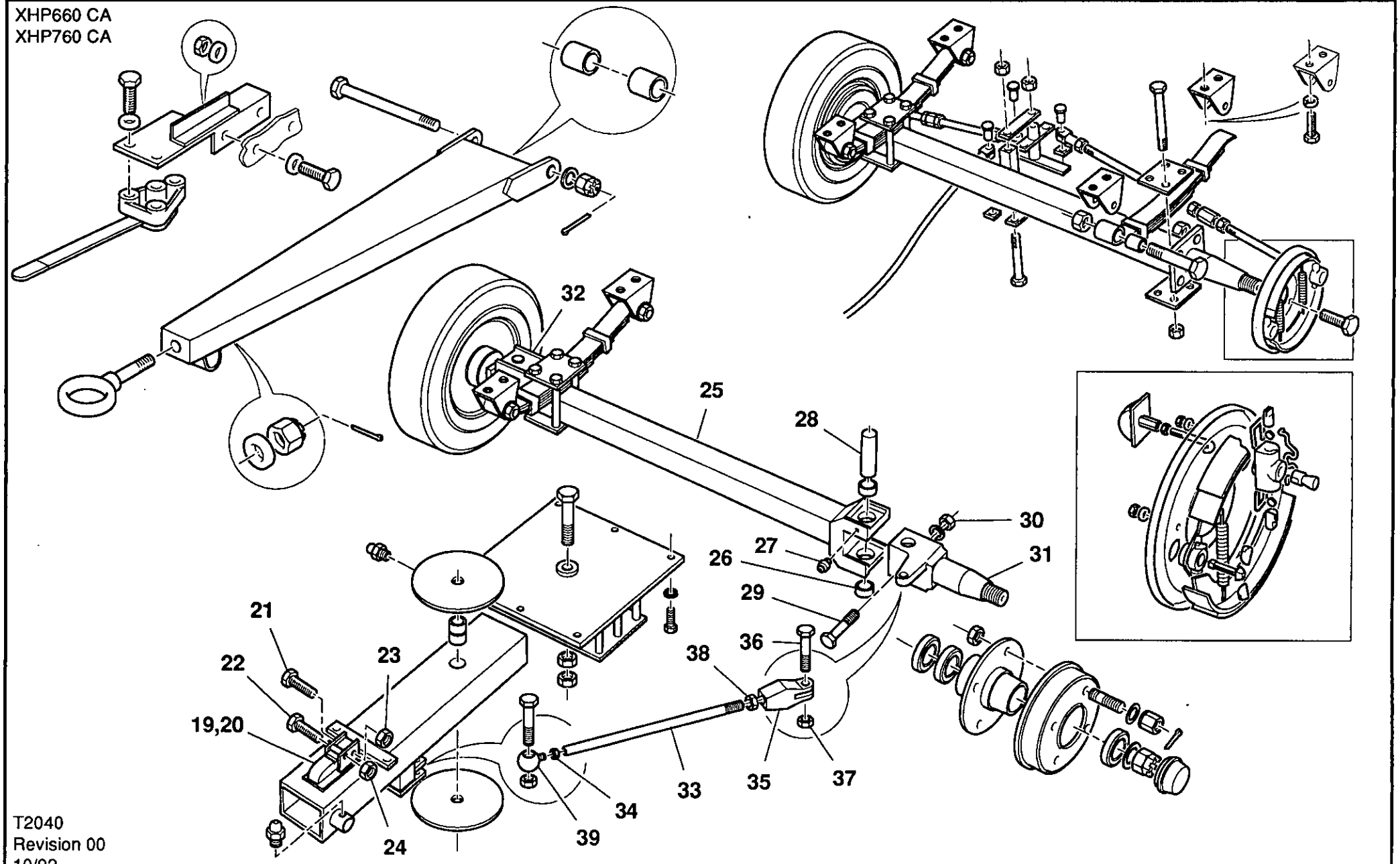


T2040
Revision 00
10/92

	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

10.0.2 RUNNING GEAR -UNBRAKED

XHP660 CA
XHP760 CA

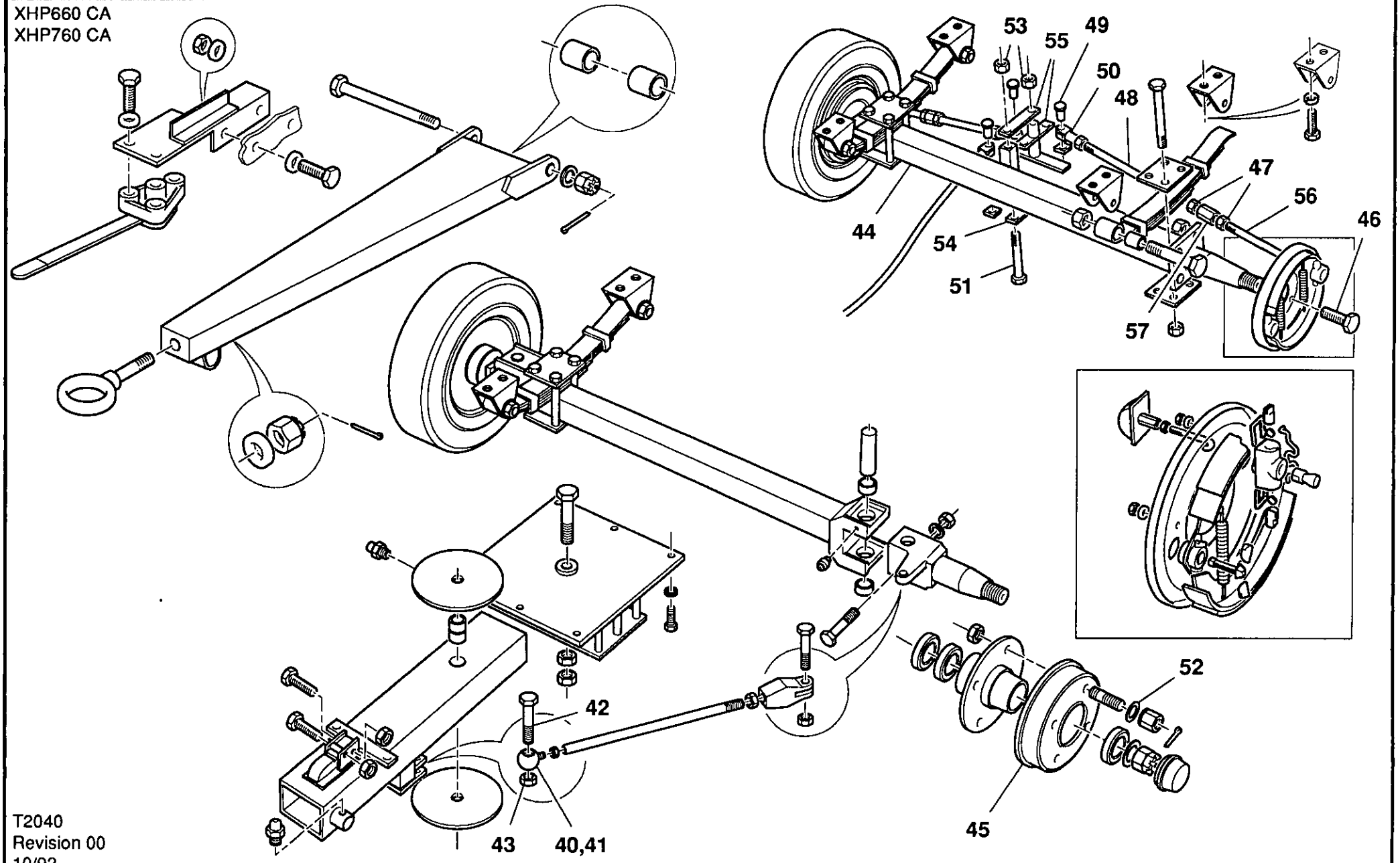


T2040
Revision 00
10/92

	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA XHP 660 CA	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			

10.0.4 RUNNING GEAR -UNBRAKED

XHP660 CA
XHP760 CA

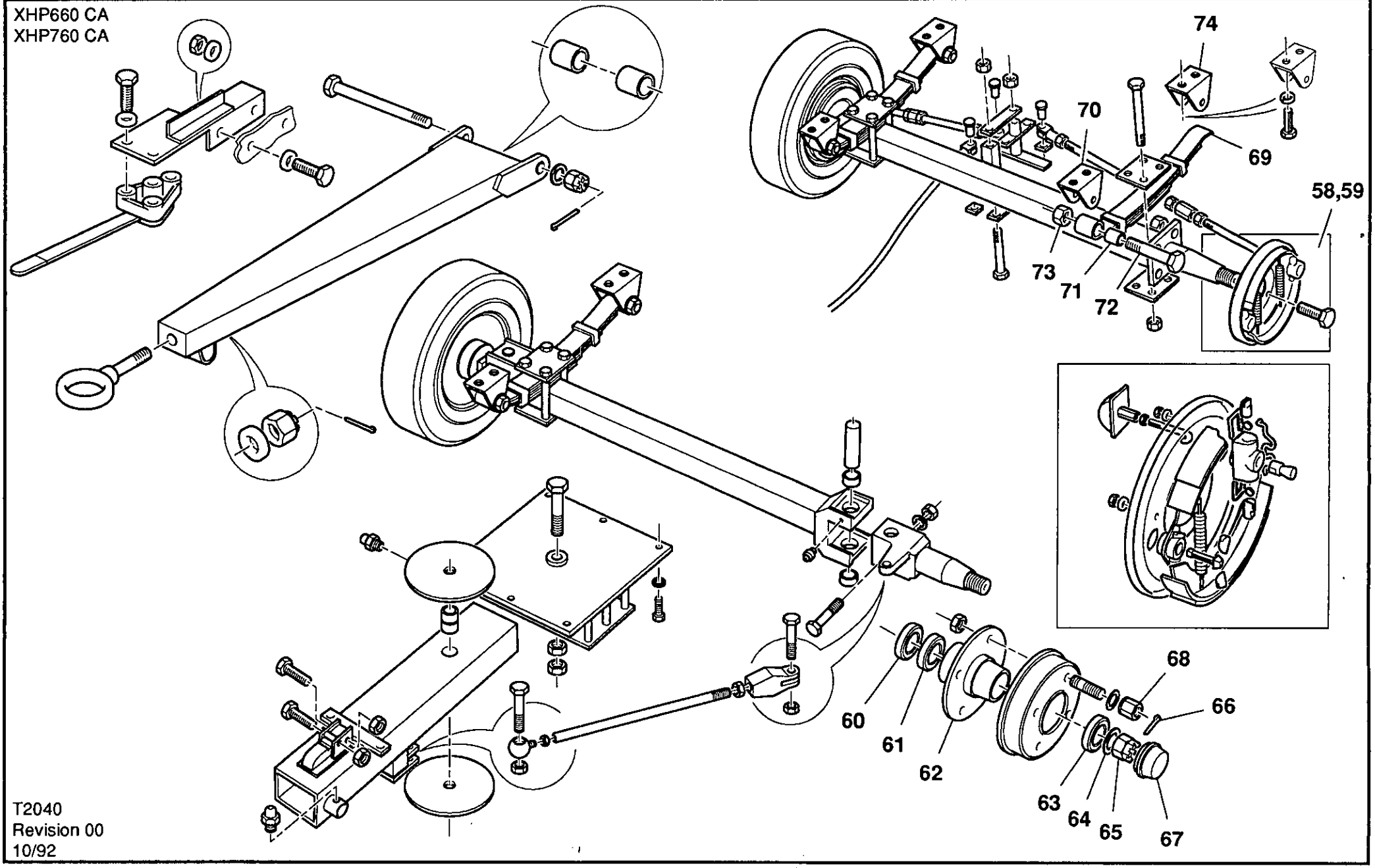


T2040
Revision 00
10/92

	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA XHP 660 CA							
	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

10.0.6 RUNNING GEAR -UNBRAKED

XHP660 CA
XHP760 CA

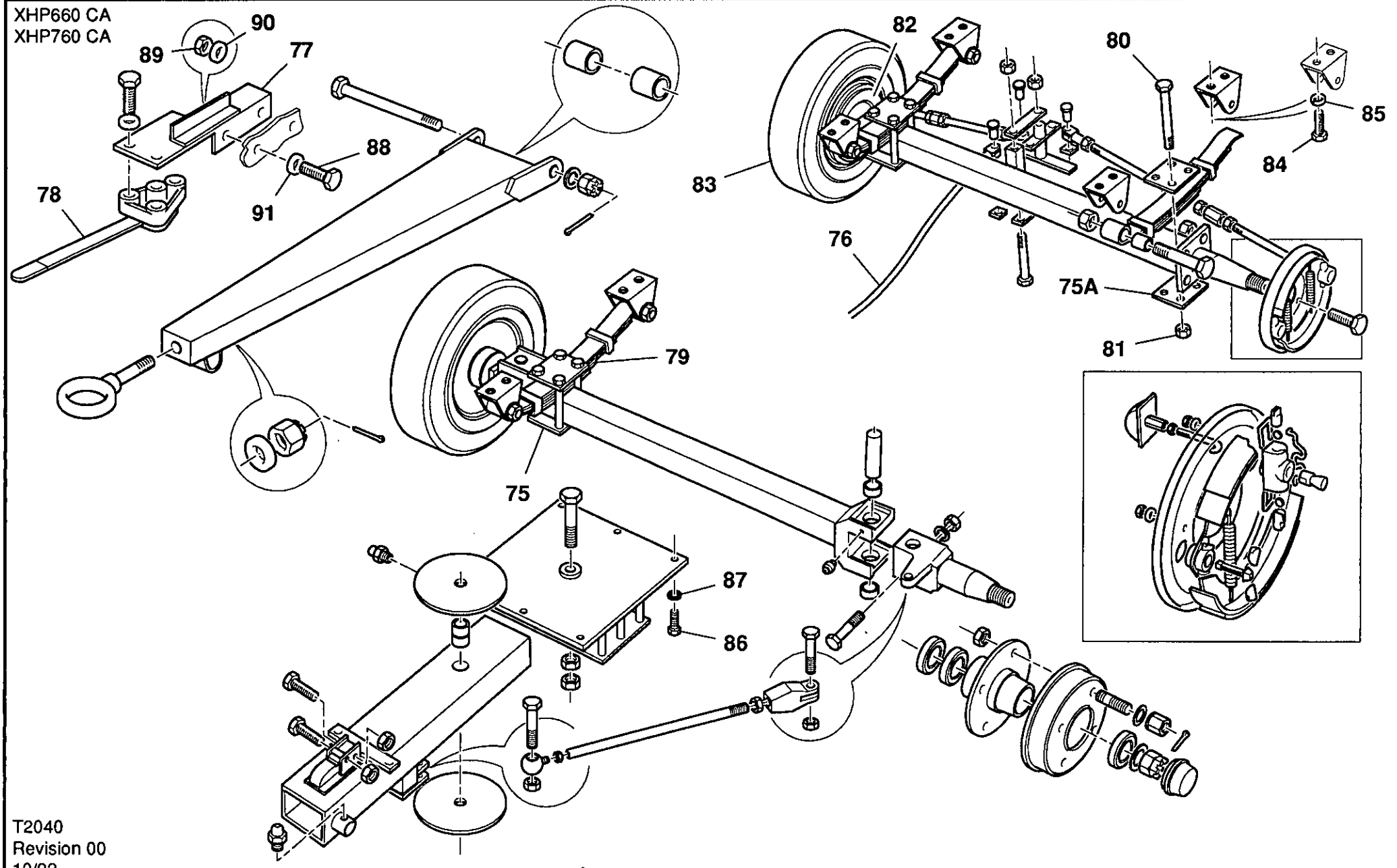


T2040
Revision 00
10/92

	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			

10.0.8 RUNNING GEAR -UNBRAKED

XHP660 CA
XHP760 CA

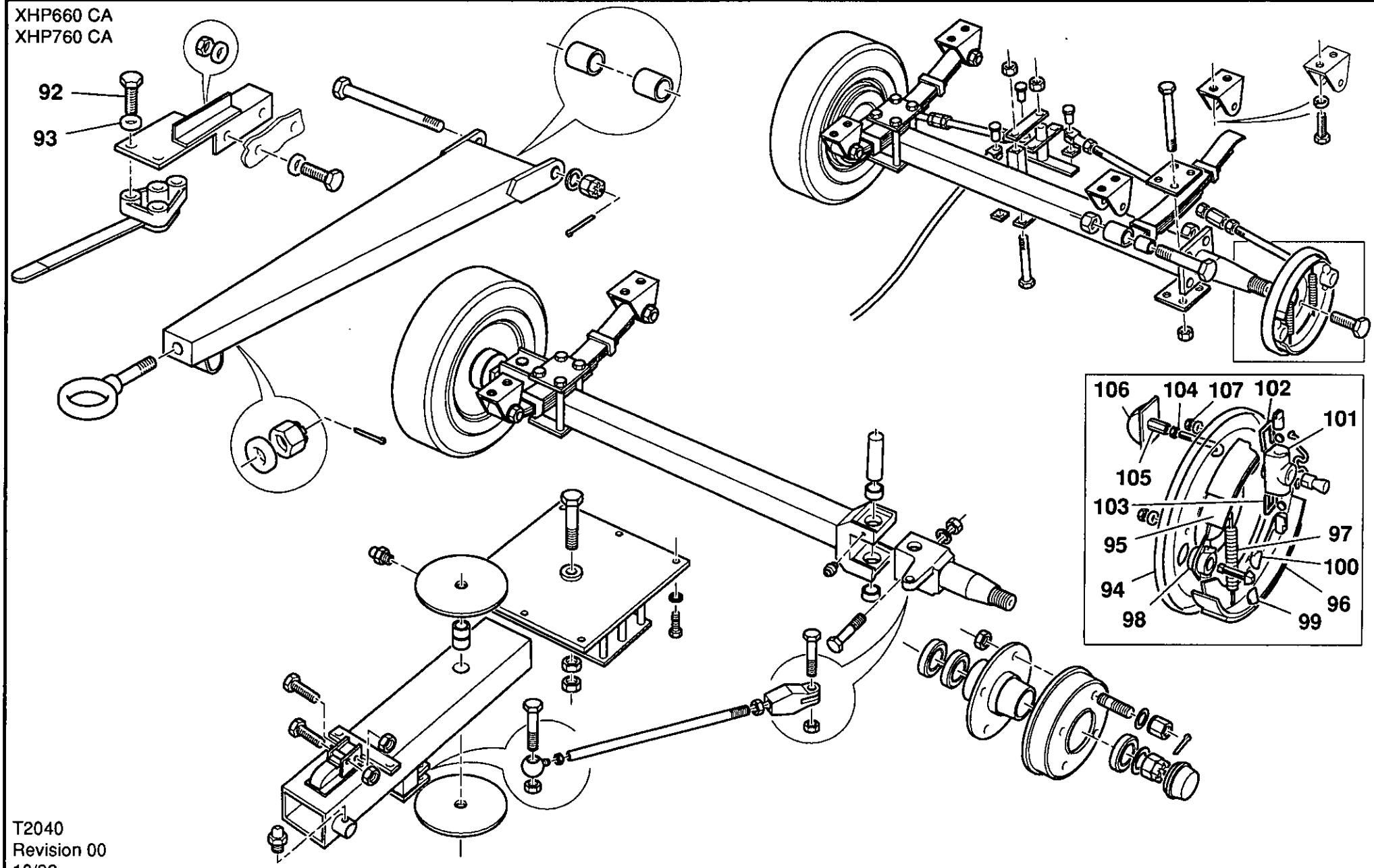


T2040
Revision 00
10/92

	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA XHP 660 CA	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

10.0.10 RUNNING GEAR -UNBRAKED

XHP660 CA
XHP760 CA

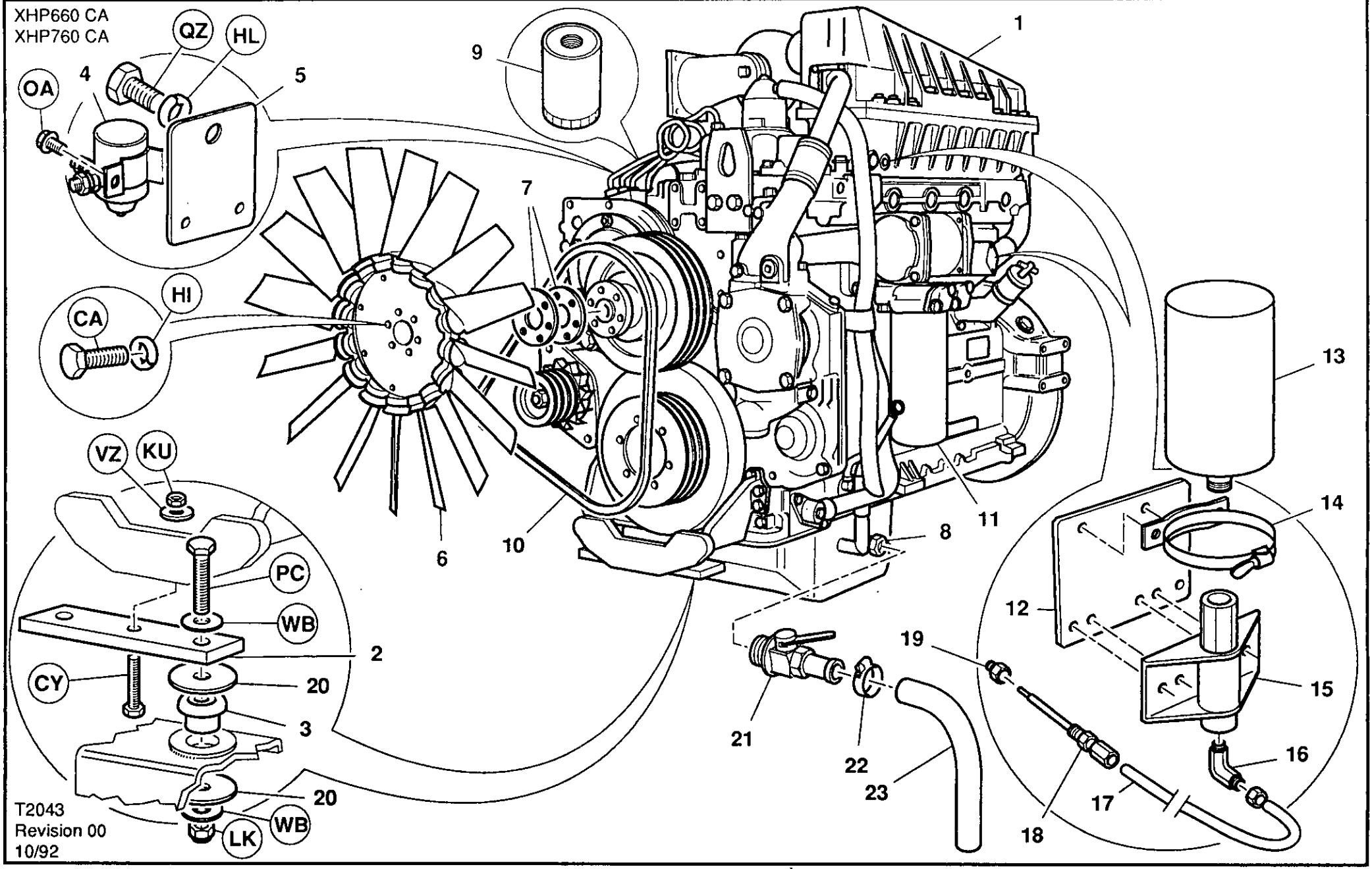


T2040
Revision 00
10/92

	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

10.1.0 ENGINE ASSEMBLY

XHP660 CA
XHP760 CA

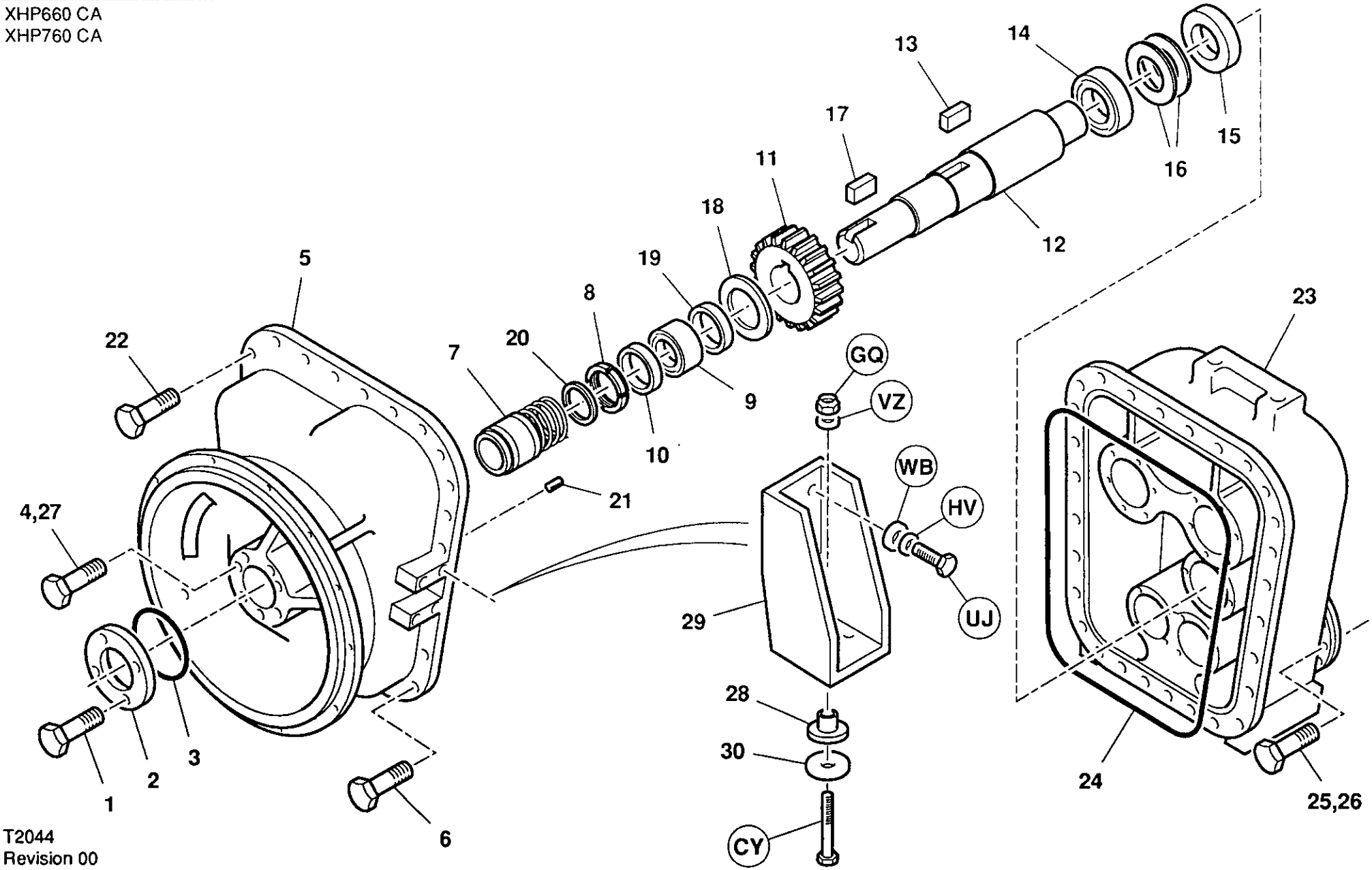


T2043
Revision 00
10/92

	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 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	3	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			

10.1.2 AIREND ASSEMBLY

XHP660 CA
XHP760 CA

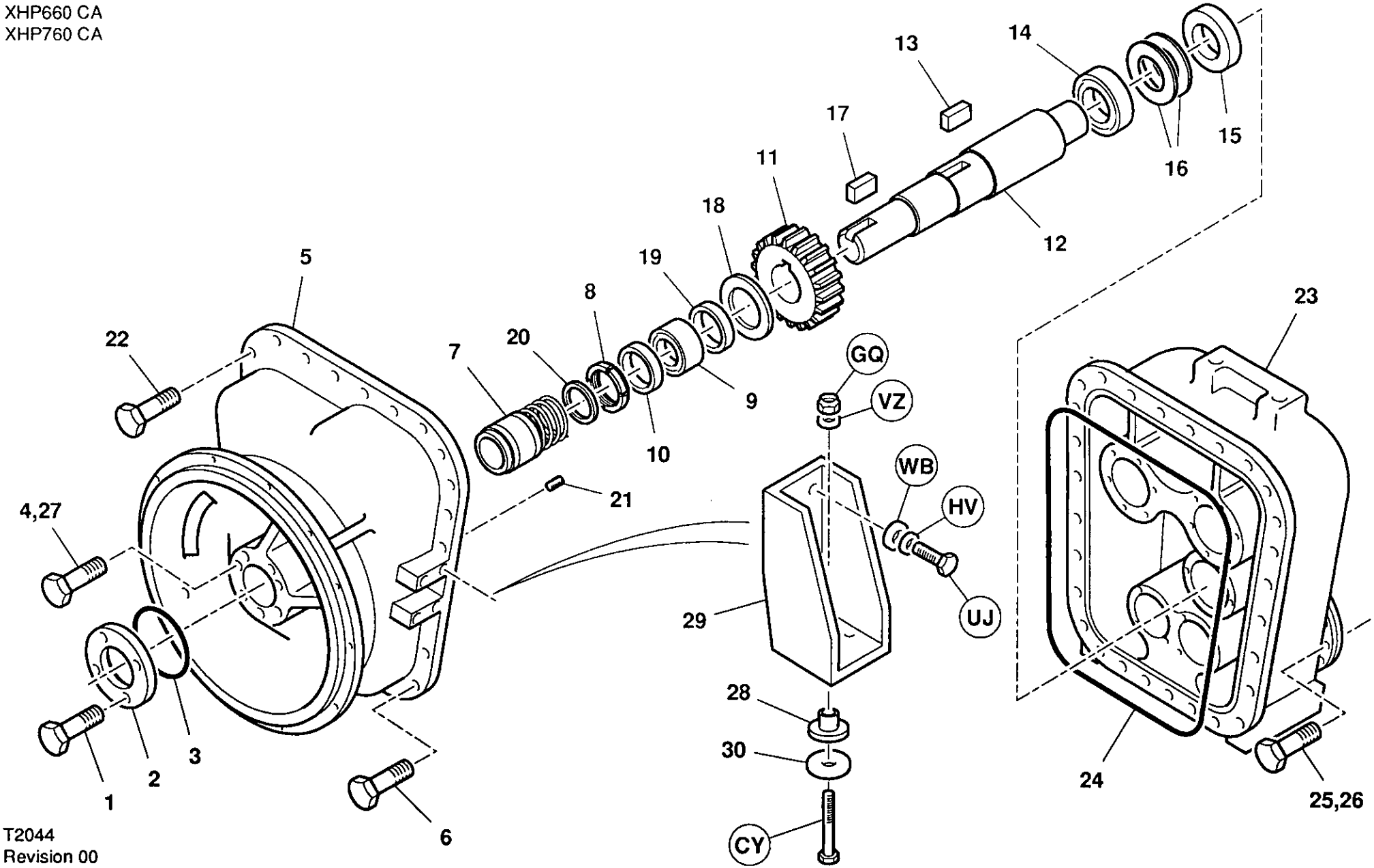


T2044
Revision 00
10/92

	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			

10.1.4 AIREND ASSEMBLY

XHP660 CA
XHP760 CA

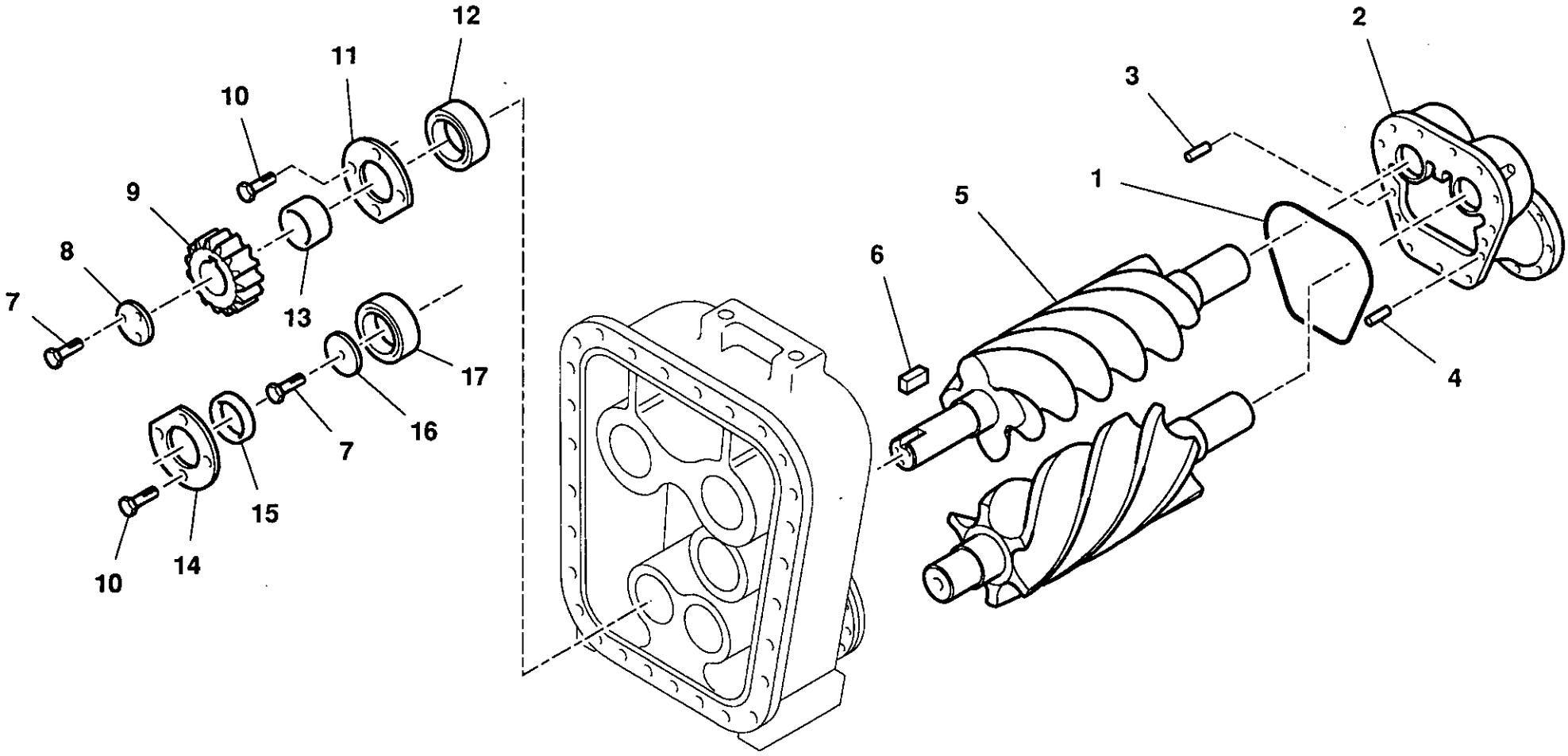


T2044
Revision 00
10/92

	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA XHP 660 CA	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			

10.1.6 AIREND ASSEMBLY

XHP660 CA
XHP760 CA

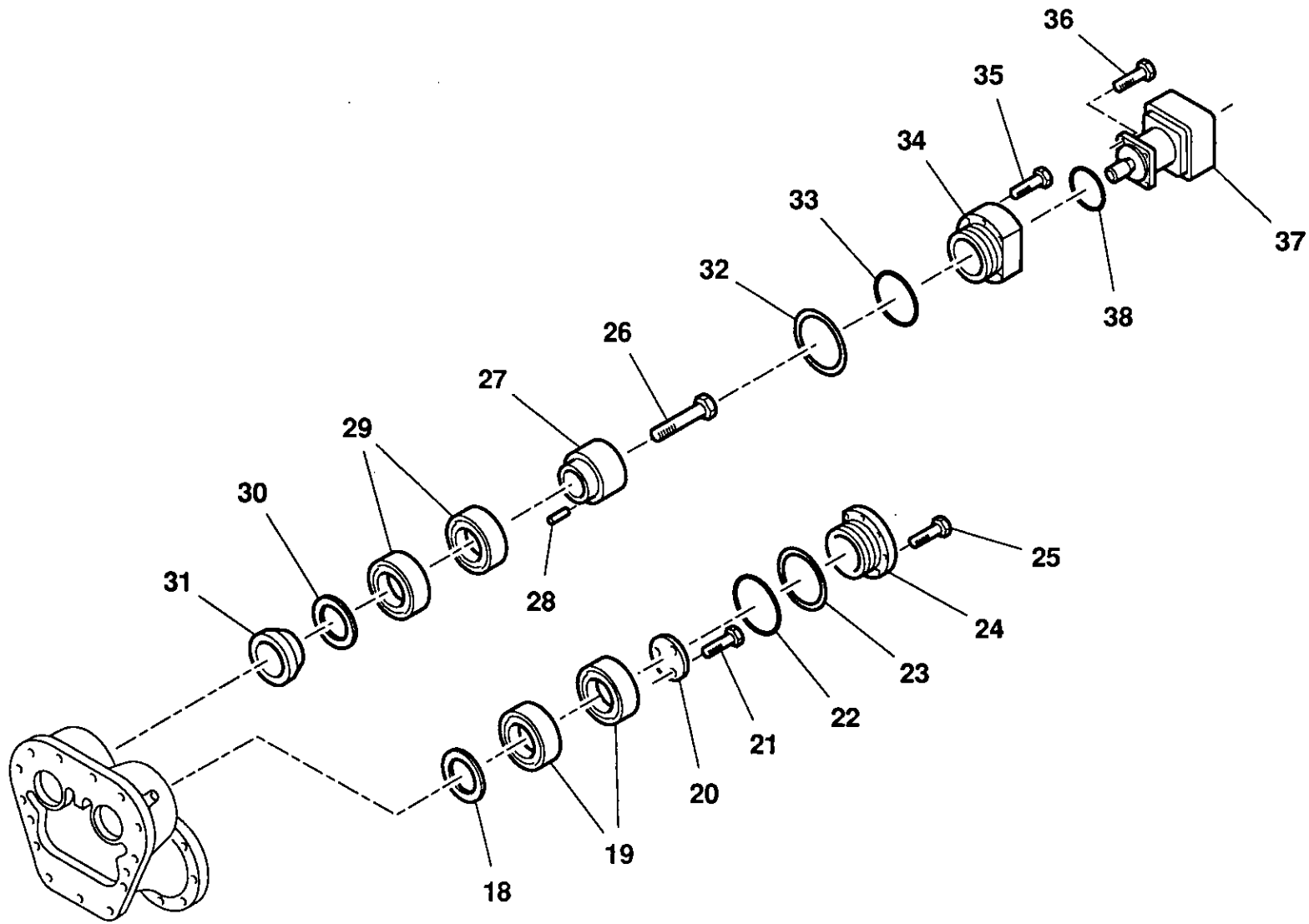


T2045
Revision 00
10/92

	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			

10.1.8 AIREND ASSEMBLY

XHP660 CA
XHP760 CA

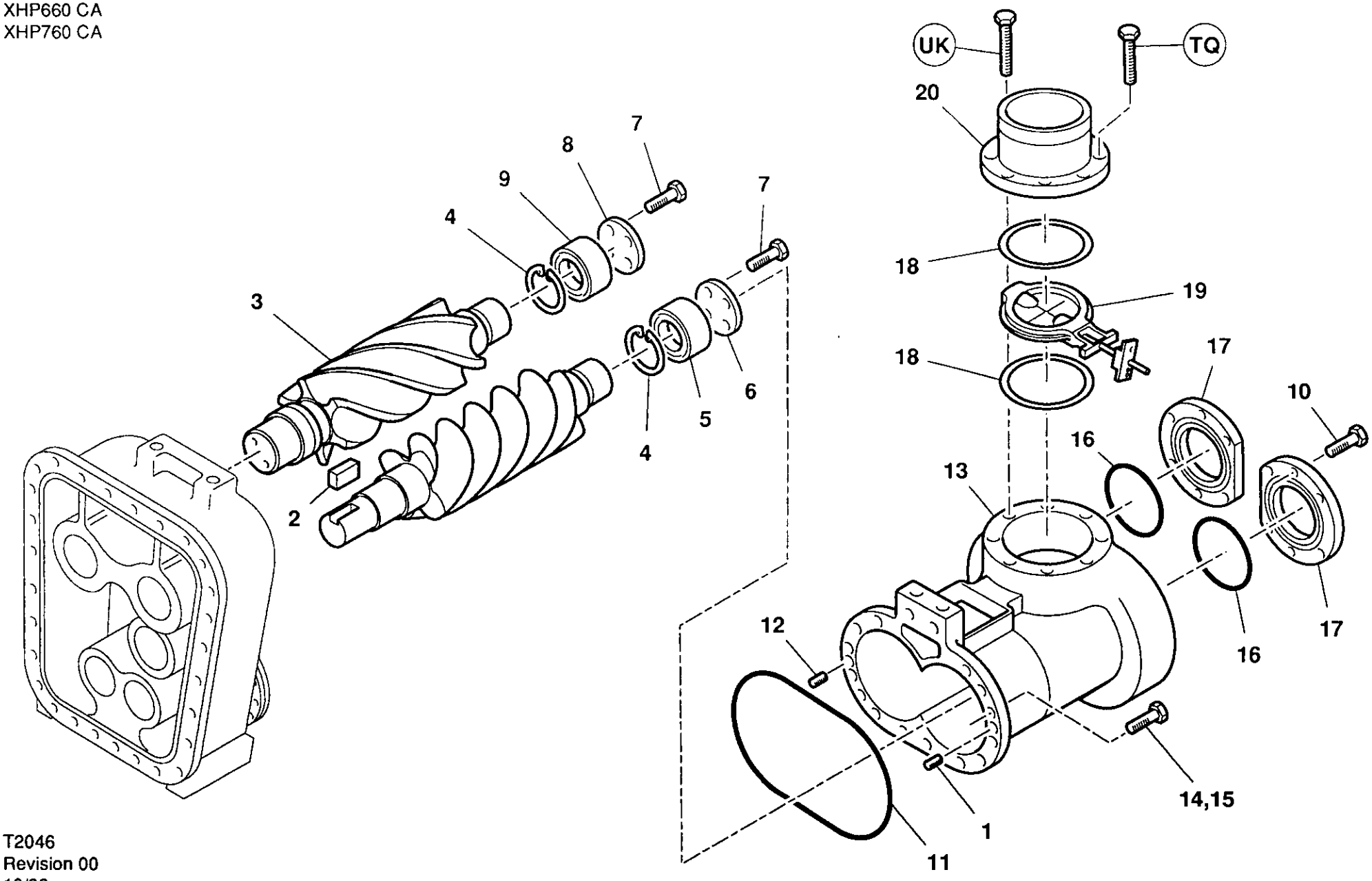


T2058
Revision 00
10/92

	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA	18	35355874	1	Set, shim			
	19	35600113	1	Bearing			
	20	35355957	1	Plate			
	21	35311463	1	Bolt		Bout	
	22	95026290	1	'O' Ring	Joint torique	'O'Ring	'O'Ring
	23	35355924	1	Set, shim			
	24	35856350	1	Cover			
	25	35271188	1	Bolt		Bout	
	26	35369438	1	Bolt		Bout	
	27	35864644	1	Coupling			
	28	95069522	1	Dowel			
	29	35600113	1	Bearing			
	30	35355874	1	Set, shim			
	31	35355940	1	Piston	Piston	Zuiger	Kolben
	32	35355916	1	Set, shim			
	33	95026290	1	'O' Ring	Joint torique	'O'Ring	'O'Ring
	34	36500734	1	Cover			
	35	39125000	1	Bolt		Bout	
	36	35272533	1	Bolt		Bout	
	37	35366657	1	Oil pump			
	38	95000410	1	Bolt		Bout	

10.1.10 AIREND ASSEMBLY

XHP660 CA
XHP760 CA

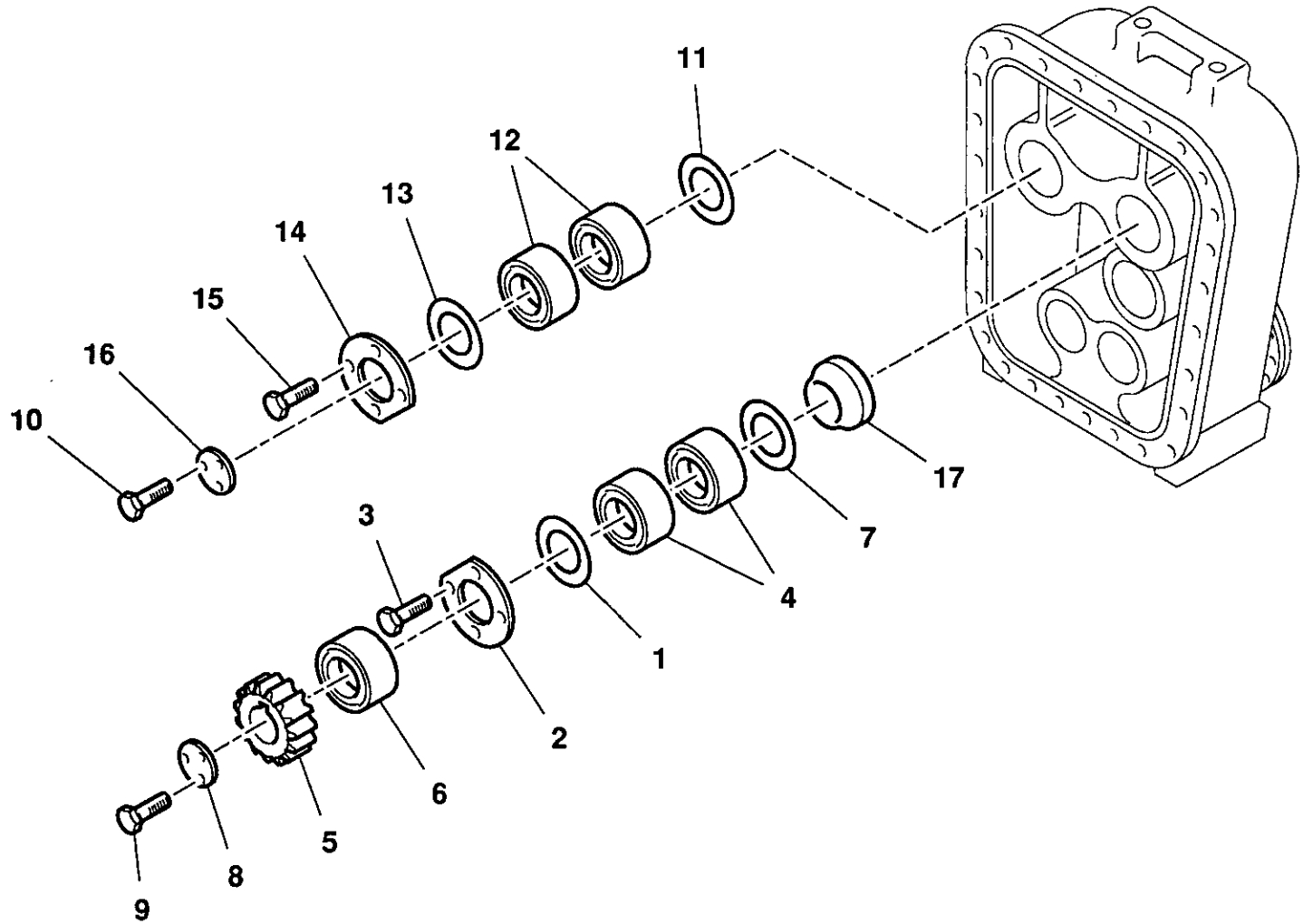


T2046
Revision 00
10/92

	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			

10.1.12 AIREND ASSEMBLY

XHP660 CA
XHP760 CA

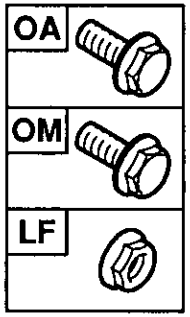


T2059
Revision 00
10/92

	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

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	Armaturenbrett
	22	92924133	1	Panel Front RH	Panneau	Paneel	Verkleidung
	23	92898949	2	Door			

10.2.2 ENCLOSURE

XHP660 CA
XHP760 CA

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OM
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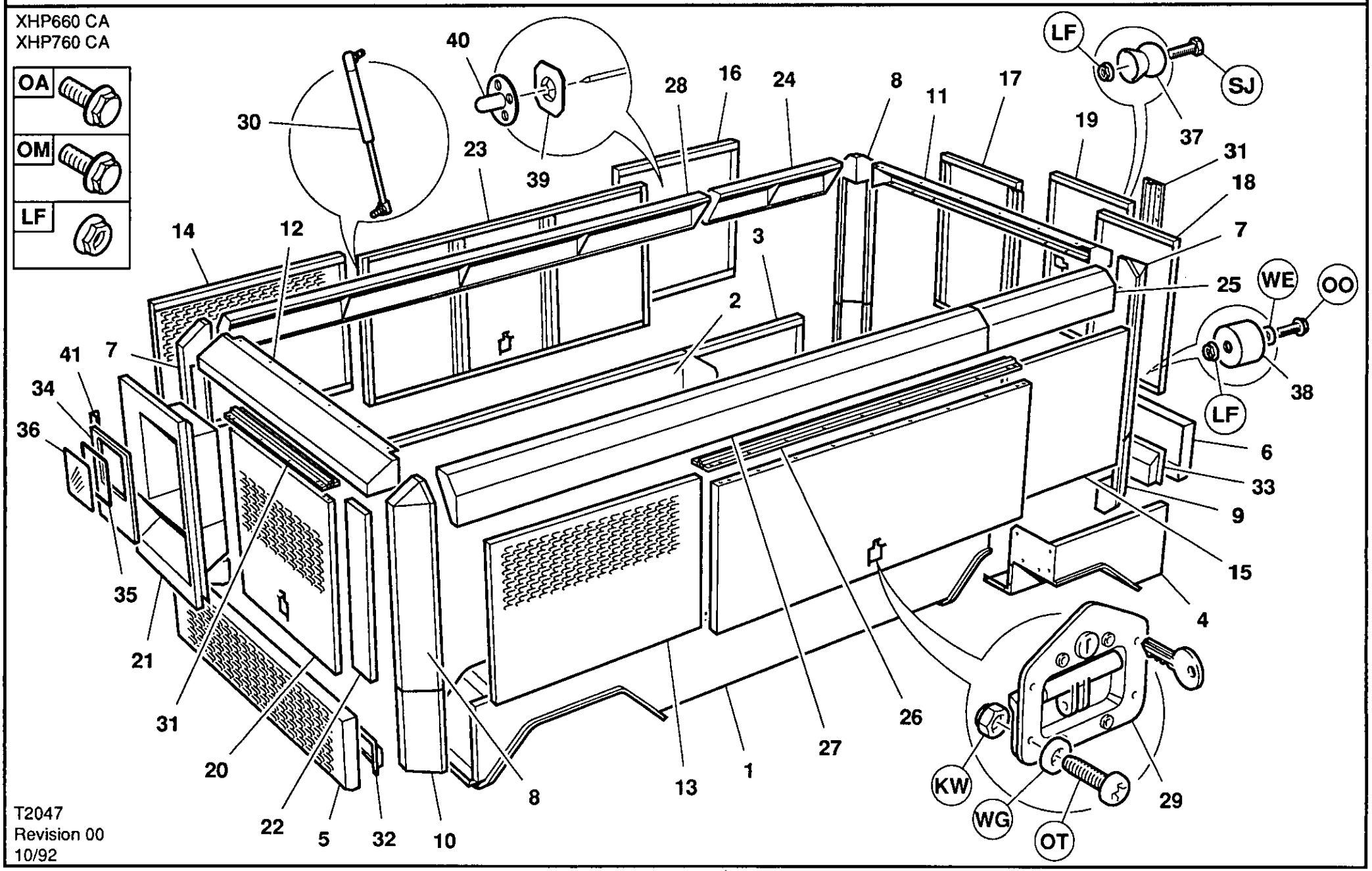
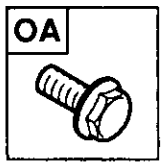


T2047
Revision 00
10/92

	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			

10.2.4 ENCLOSURE

XHP660 CA
XHP760 CA

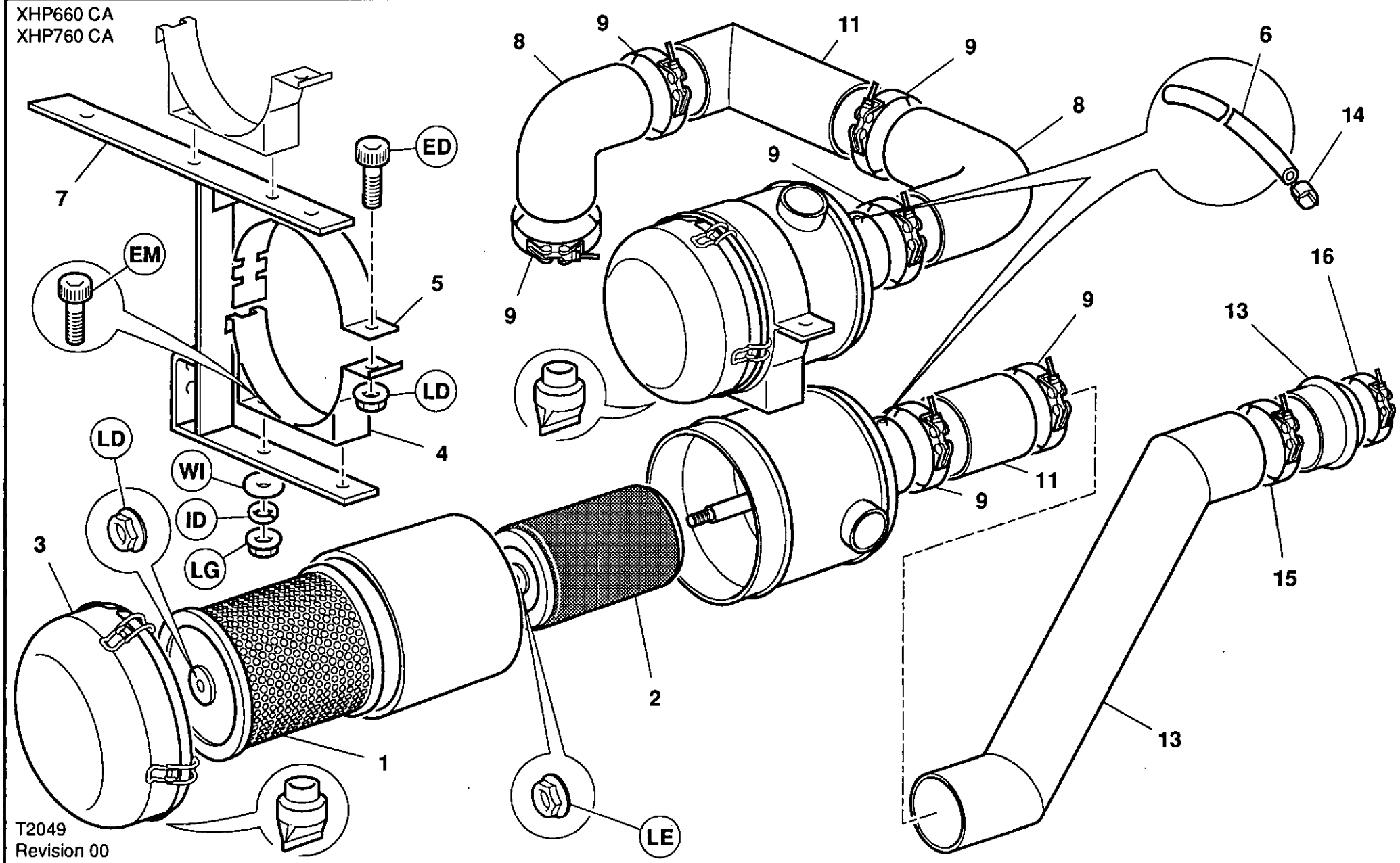


T2048
Revision 00
10/92

	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			

10.3.0 AIR INTAKE

XHP660 CA
XHP760 CA

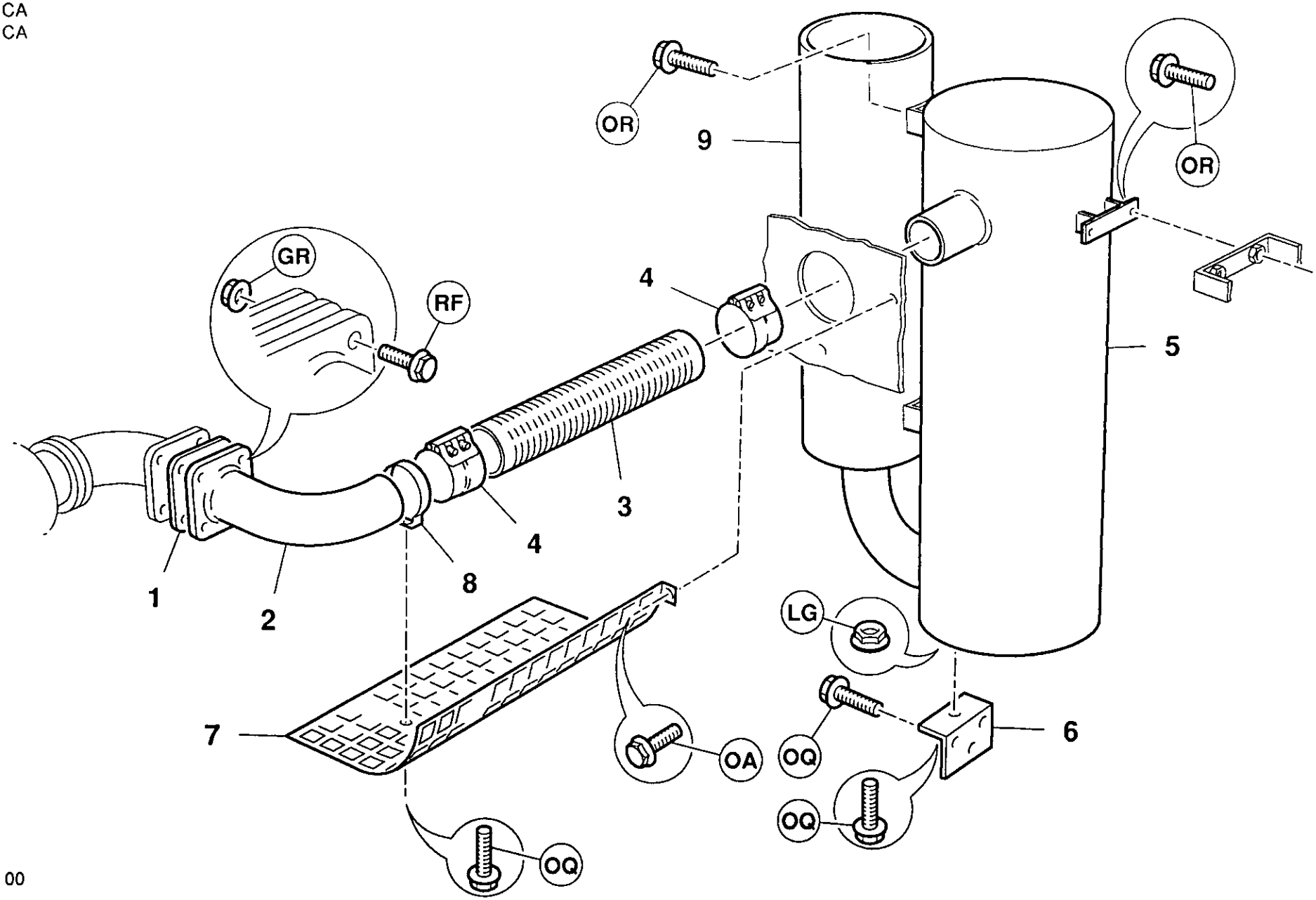


T2049
Revision 00
10/92

	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	Krümmer
	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
	17	92698273	2	Indicator, air restriction		Indicateur luchtweerstand	

10.3.2 EXHAUST SYSTEM

XHP660 CA
XHP760 CA

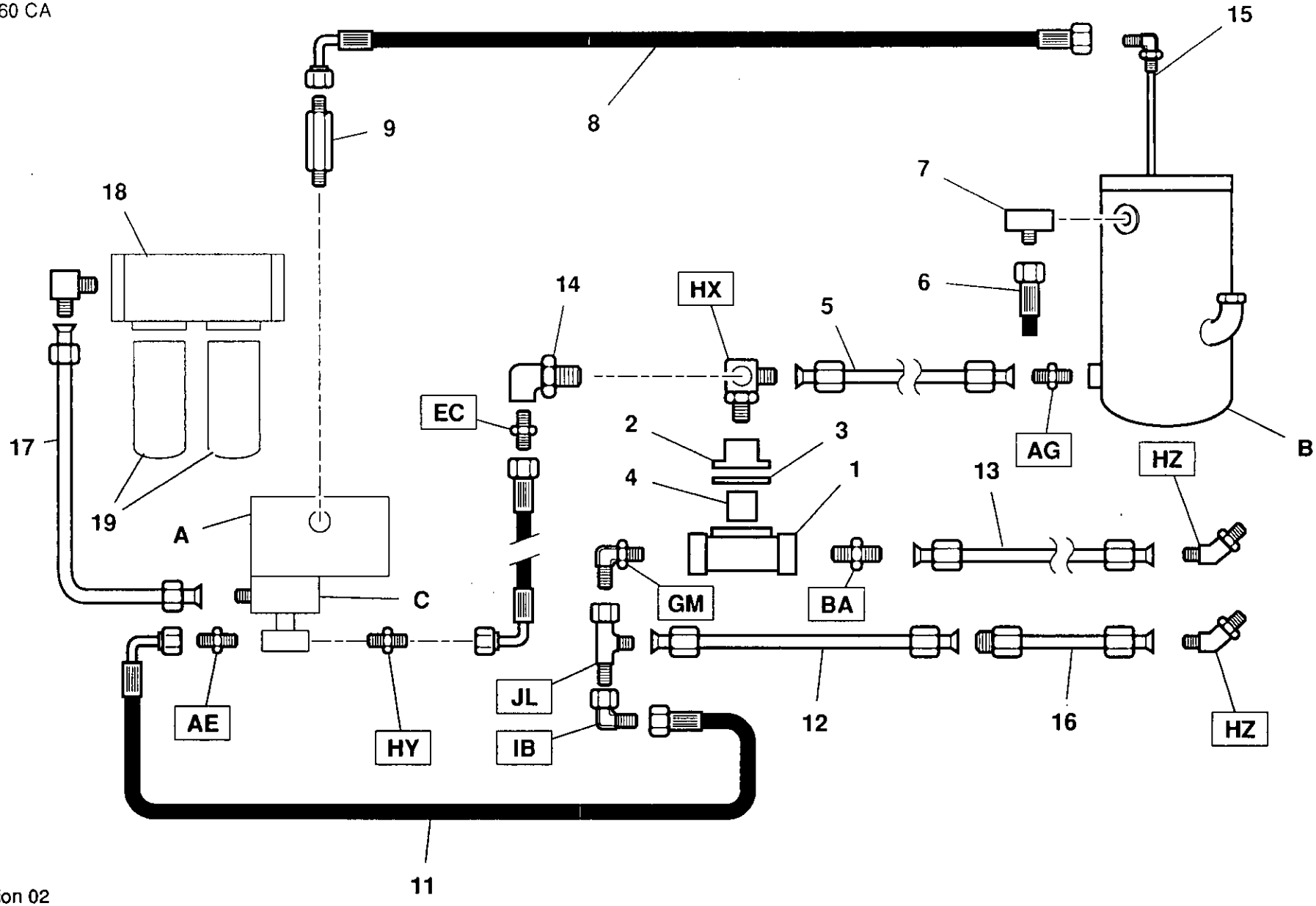


T2050
Revision 00
10/92

	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

10.4.0 OIL PIPING

XHP660 CA
XHP760 CA

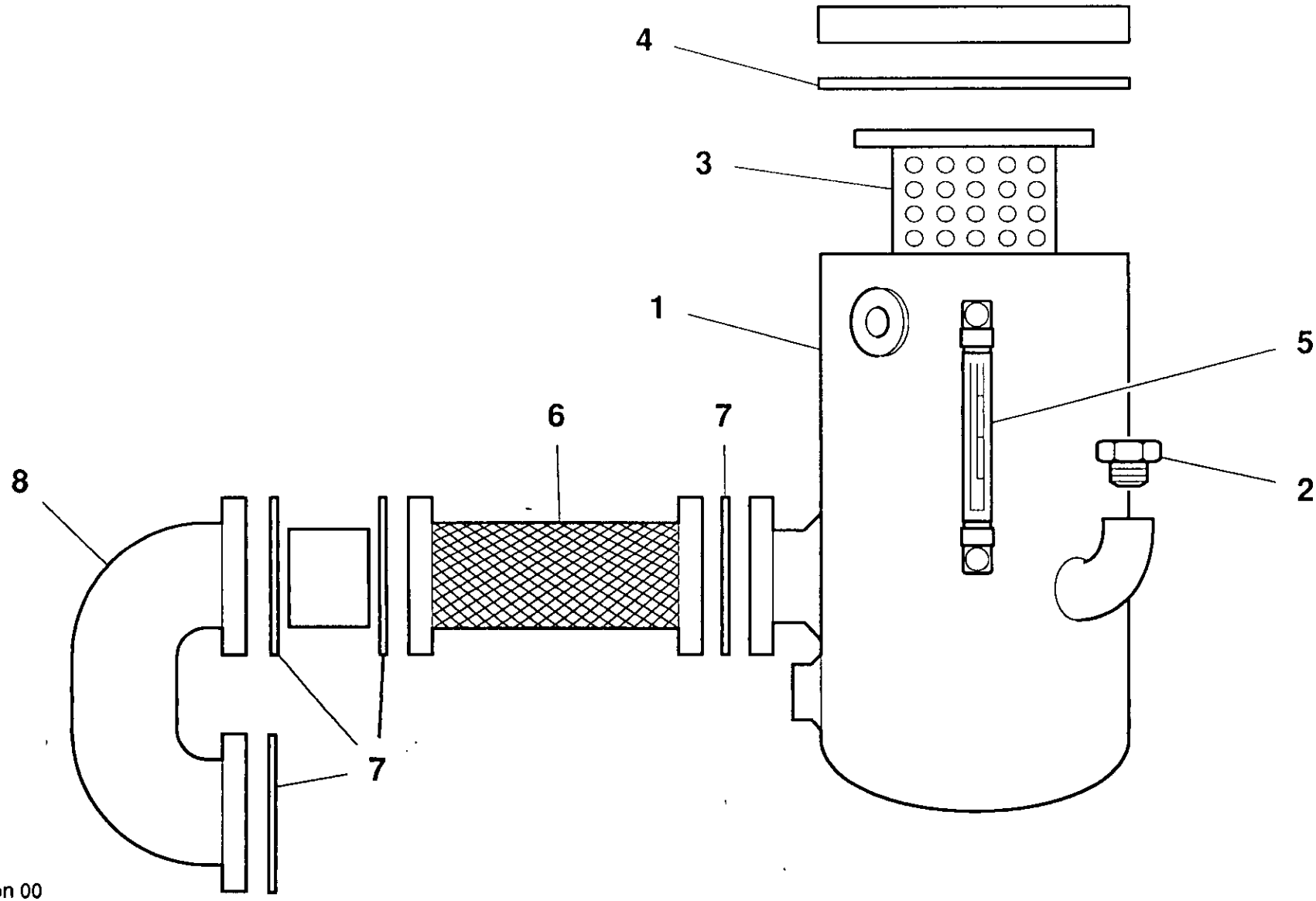


T2051
Revision 02
01/93

	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA							
	A			Airend	Airend	Schroefgedeelte	Verdichter
	B			Tank, separator	Réservoir séparateur	Afscheidertank	Abscheider–behälter
	C			Pump		Pomp	
	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
	17	36758357	1	Tube assembly	Tube	Leiding	Schlauch
	18–19	36756120	1	Filter assembly		Filter compleet	
Revision 01 01/93	19	36758613	1	Element, oil filter		Oliefilter element	

10.4.2 SEPARATOR TANK

XHP660 CA
XHP760 CA

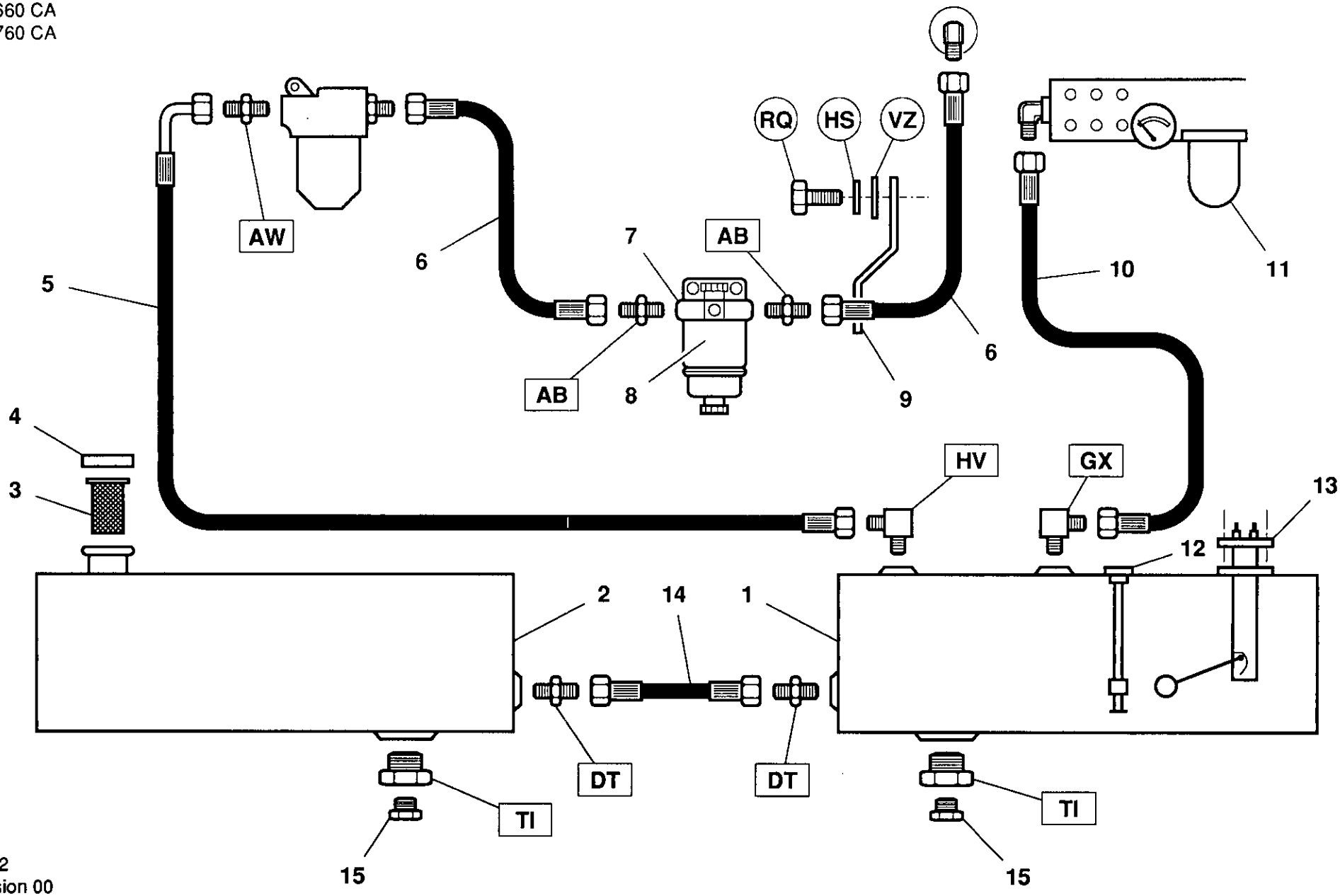


T2060
Revision 00
10/92

	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 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	92095363	1	Sight–glass	Niveau d'huile	Peilglas	Transparantes schlauchstück
	6	92893221	1	Pipe		Pijp	
	7	36843720	1	Valve, check	Vanne	Terugslagklep	Rückschlagventil
	8	92893163	1	Pipe		Pijp	
	9	95214599	1	Gasket	Joint	Pakking	Dichtung

10.5.0 FUEL SYSTEM

XHP660 CA
XHP760 CA

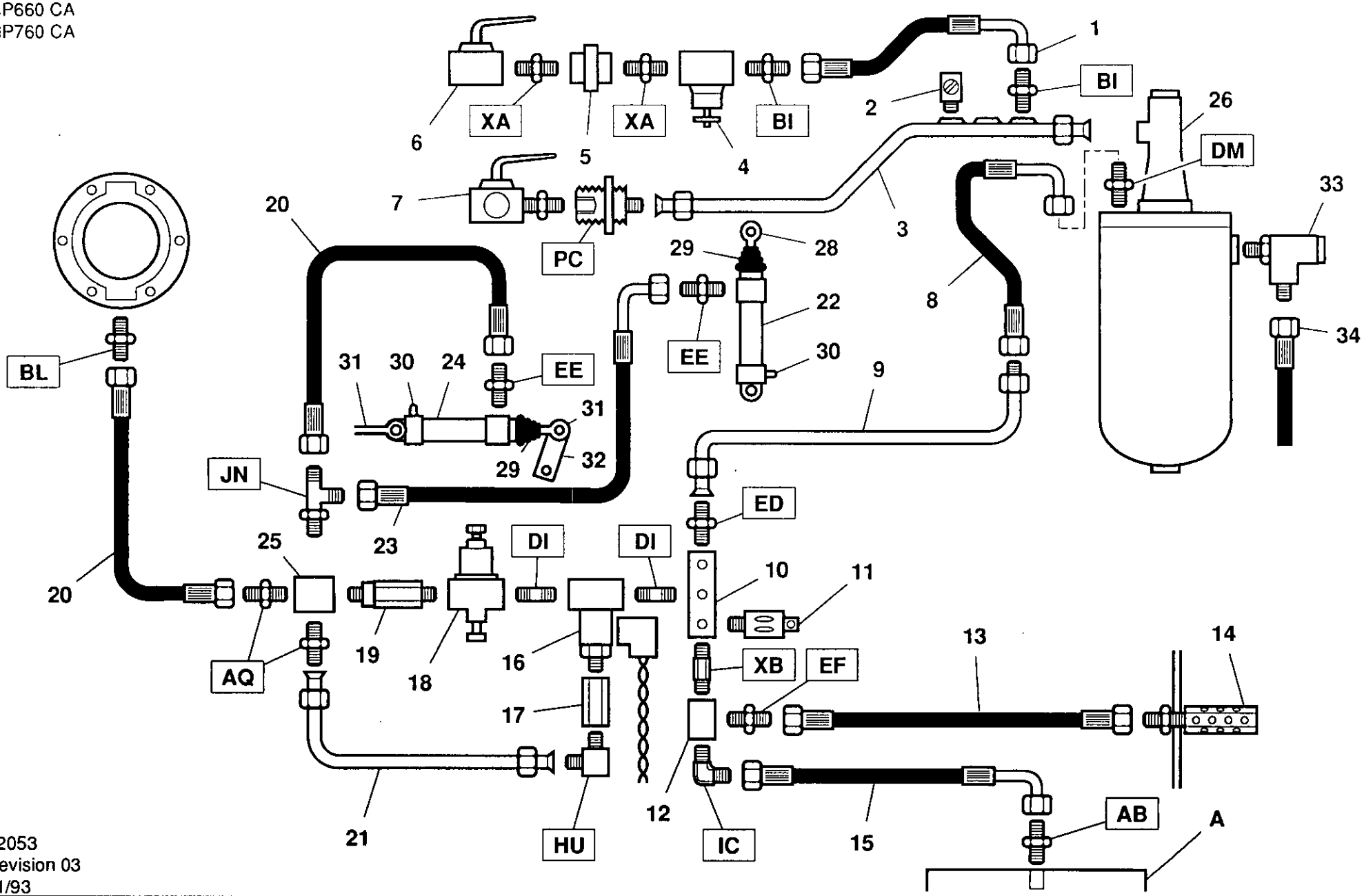


T2052
Revision 00
10/92

	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			

10.6.0 REGULATION SYSTEM

XHP660 CA
XHP760 CA

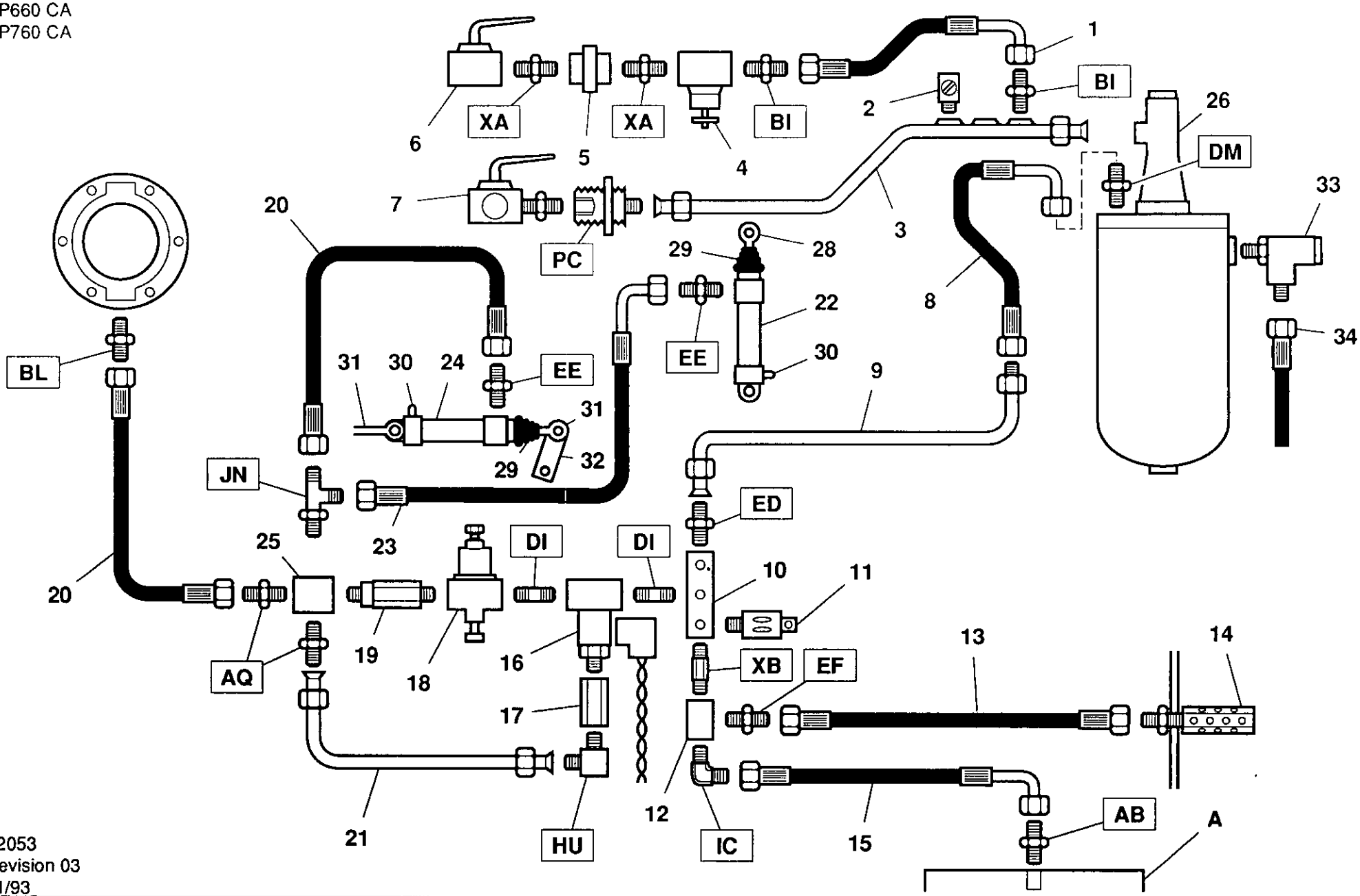


T2053
Revision 03
01/93

	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

10.6.2 REGULATION SYSTEM

XHP660 CA
XHP760 CA

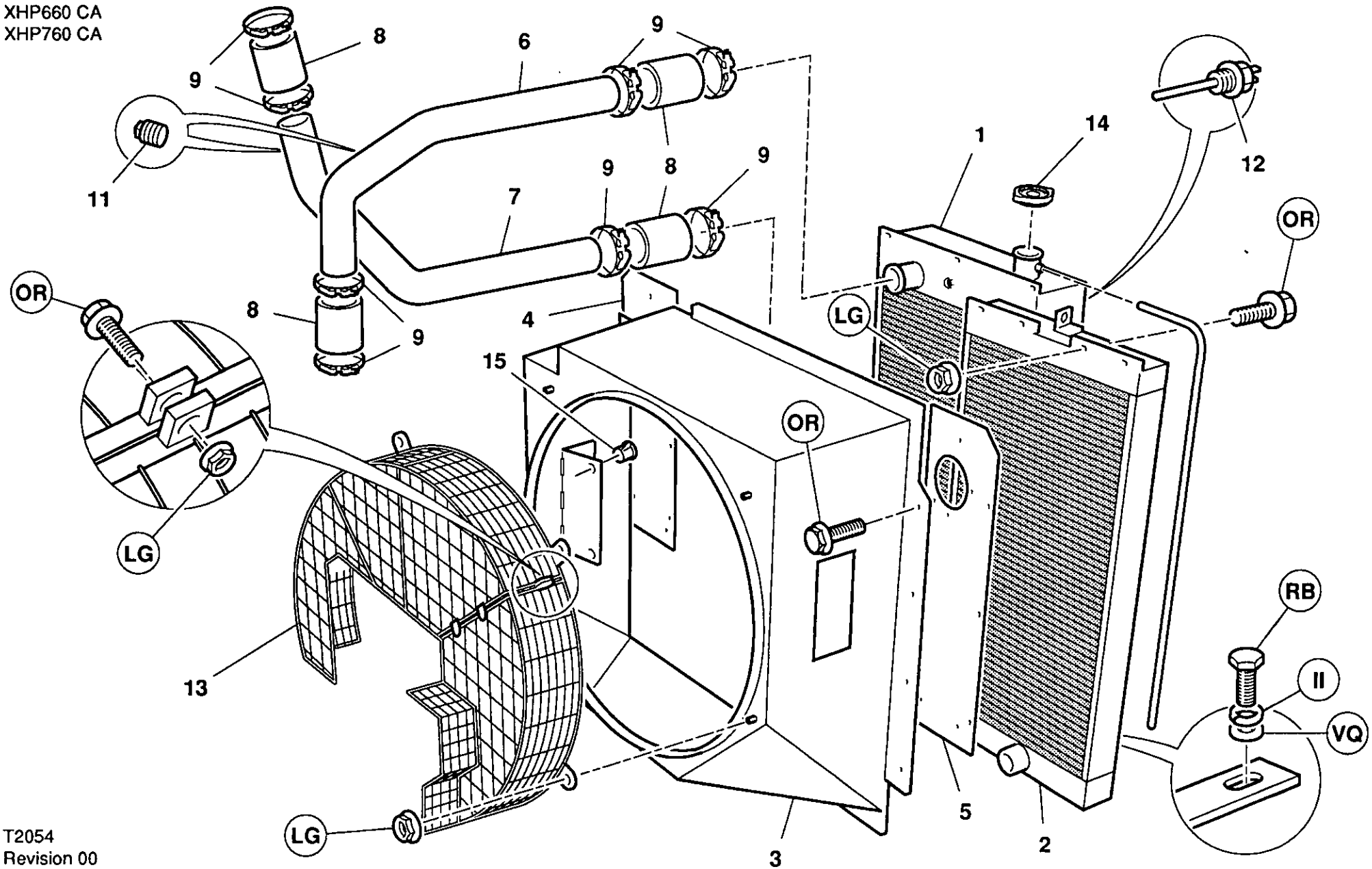


T2053
Revision 03
01/93

	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 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	92956622	2	Hose assembly	Flexible	Slang	Schlauchsystem
	21	92956655	1	Tube assembly	Tube	Leiding	Schlauch
	22	92700319	1	Cylinder, pneumatic		Luchtcylinder	
	23	92963529	1	Hose assembly	Flexible	Slang	Schlauchsystem
	24	92956499	1	Cylinder, pneumatic		Luchtcylinder	
	25	92963453	1	Manifold	Distributeur	Verdeelstuk	Verteilerblock
	26	92892975	1	Valve, minimum pressure	Vanne pression minimum	Minimumdrukklep	Druckhalte–ventil
	27	92951078	1	Valve, minimum pressure (Kit)	Vanne pression minimum	Minimumdrukklep	Druckhalte–ventil
	28	92169630	1	Ball–joint		Stangkop	
	29	92677319	2	Cover		Deksel	
	30	92549278	2	Silencer		Demper	
	31	92956507	3	Ball–joint		Stangkop	
	32	92964154	1	Lever		Hefboom	
	33	92892934	1	Valve, safety	Soupape de sécurité	Veiligheidsklep	Sicherheitsventil
	34	92895267	1	Hose	Flexible	Slang	Schlauch

10.7.0 COOLING SYSTEM

XHP660 CA
XHP760 CA

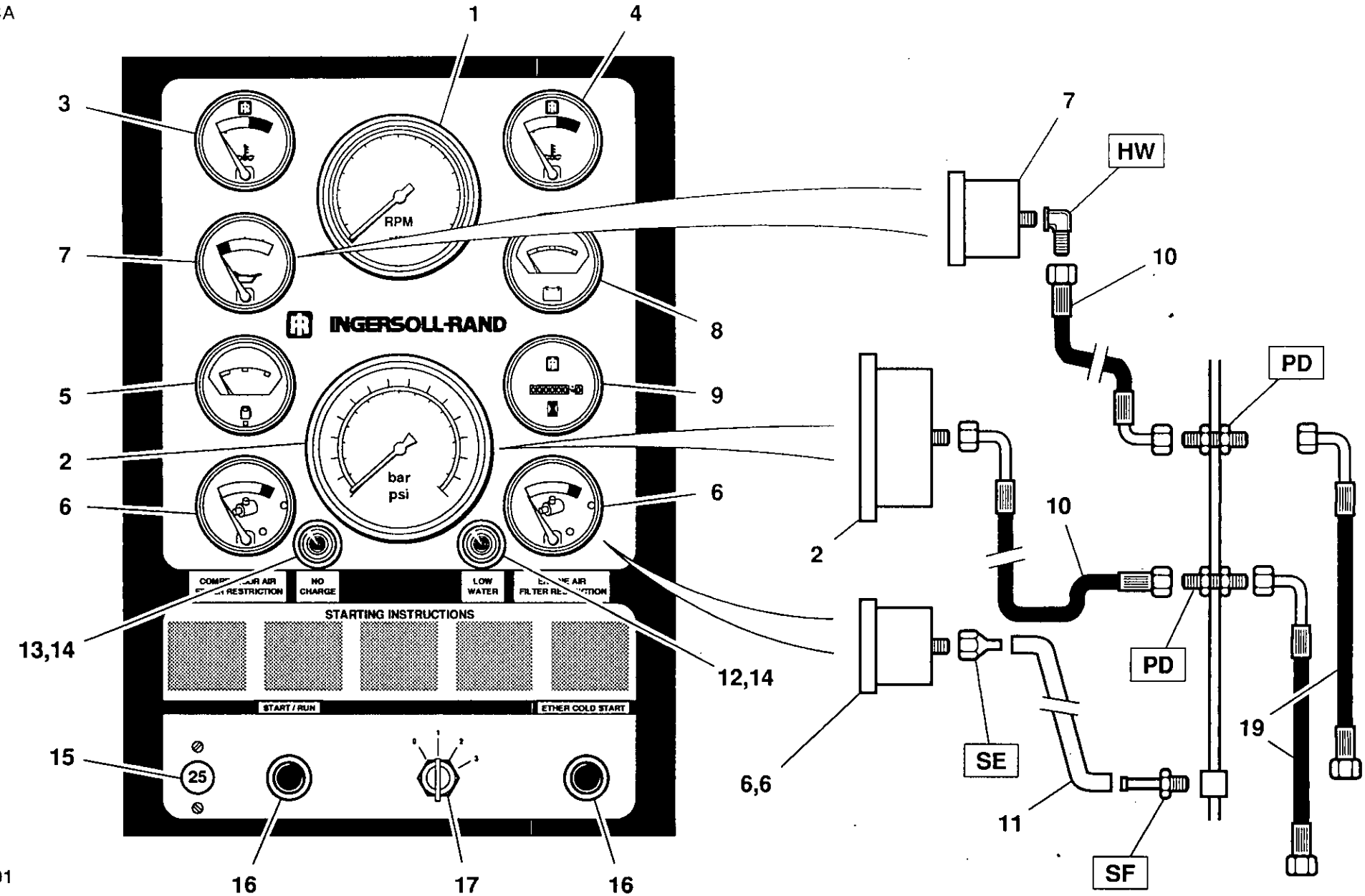


T2054
Revision 00
10/92

	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			

10.8.0 INSTRUMENTATION

XHP660 CA
XHP760 CA

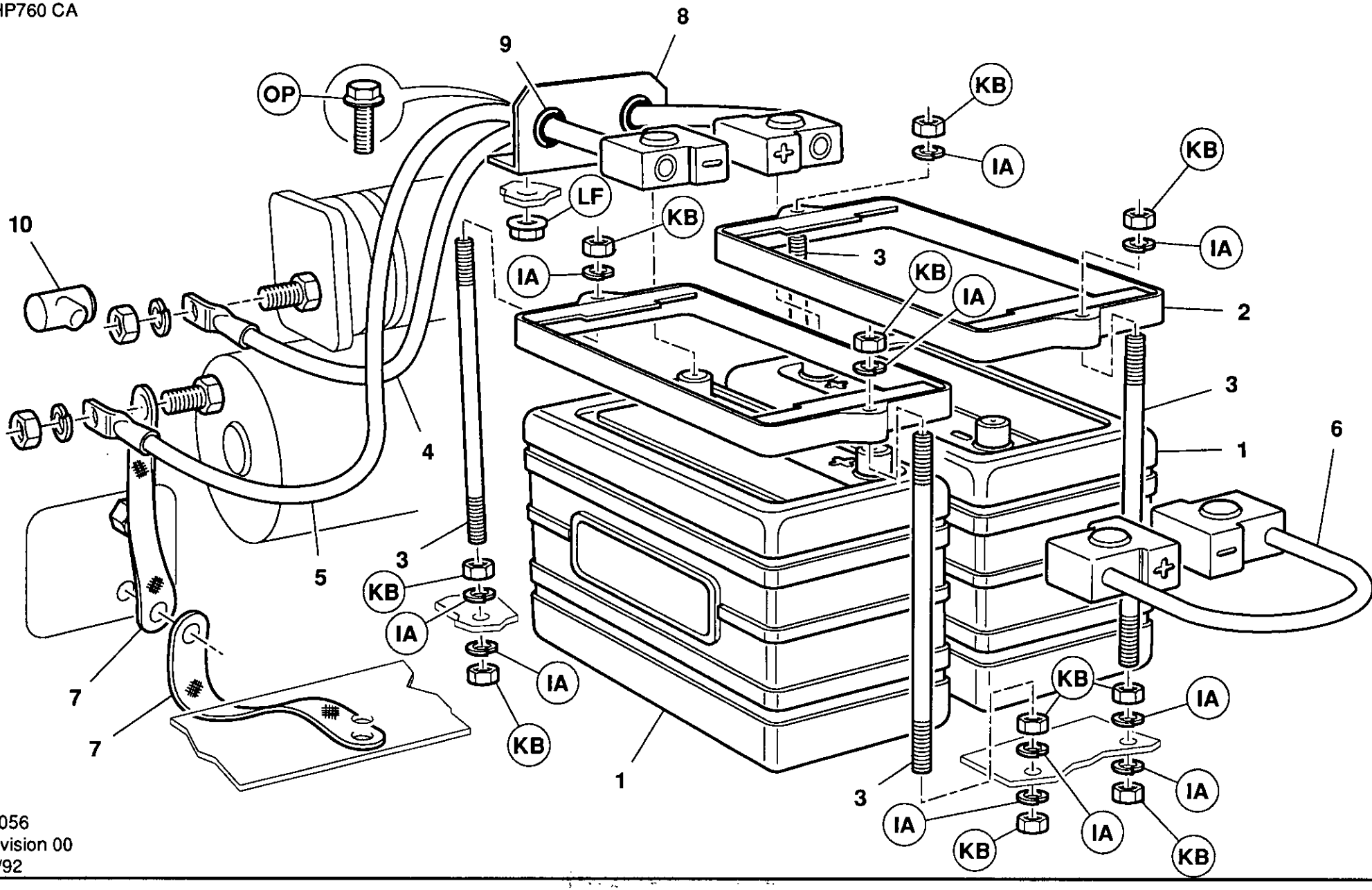


T2055
Revision 01
01/93

	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA							
	1	92956937	1	Gauge, RPM			
	2	92894492	1	Gauge, pressure	Manométre	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

10.9.0 CONTROL AND MONITORING SYSTEM

XHP660 CA
XHP760 CA

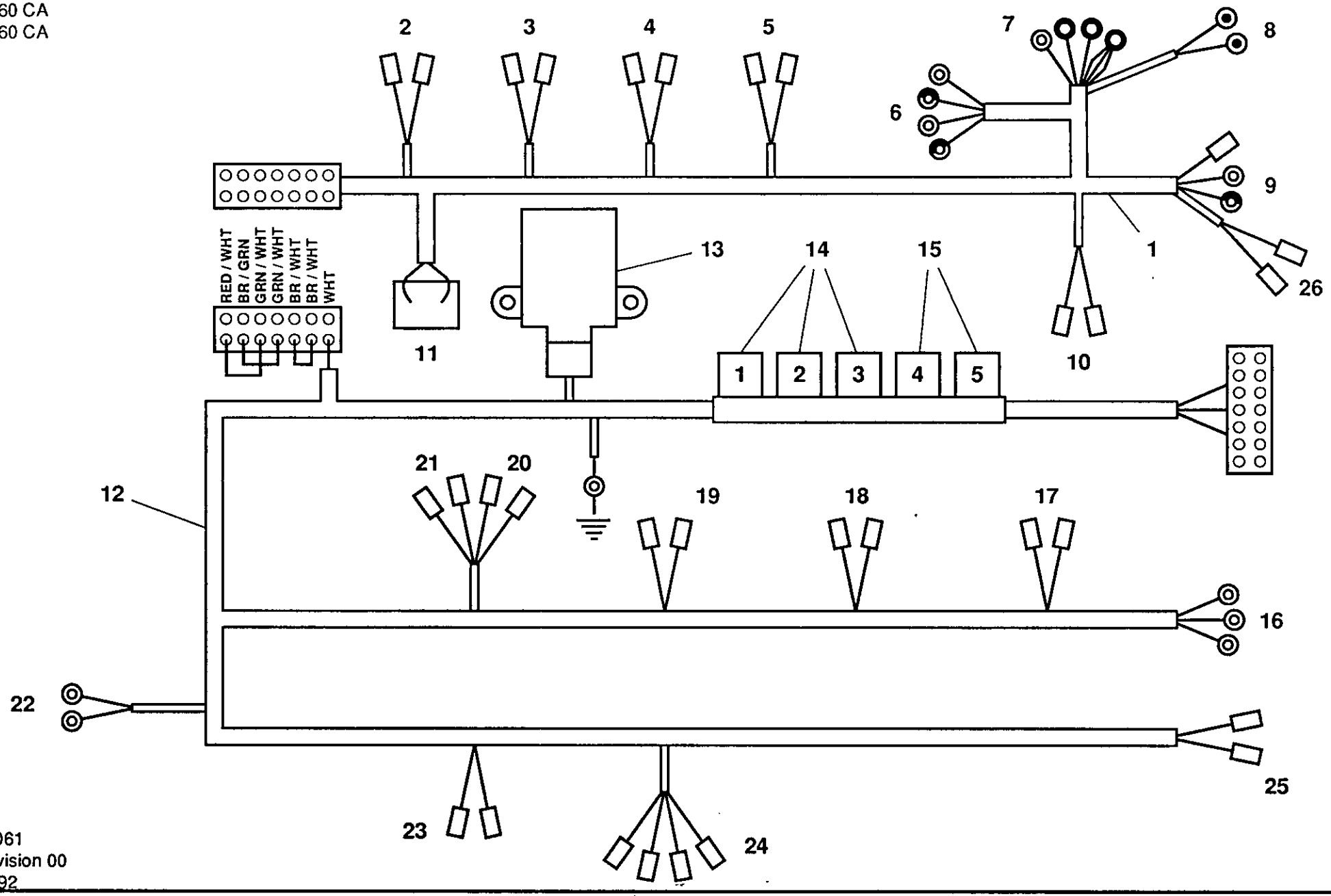


T2056
Revision 00
10/92

	Item	CPN	Qty	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 760 CA XHP 660 CA							
	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 Nagative			
	6	92303825	1	Lead			
	7	35578194	2	Strap			
	8	92039064	1	Bracket	Support	Beugel	Stützblech
	9	92254887	2	Grommet			
	10	92271139	1	Hood .			

10.10.0 WIRING HARNESS

XHP660 CA
XHP760 CA

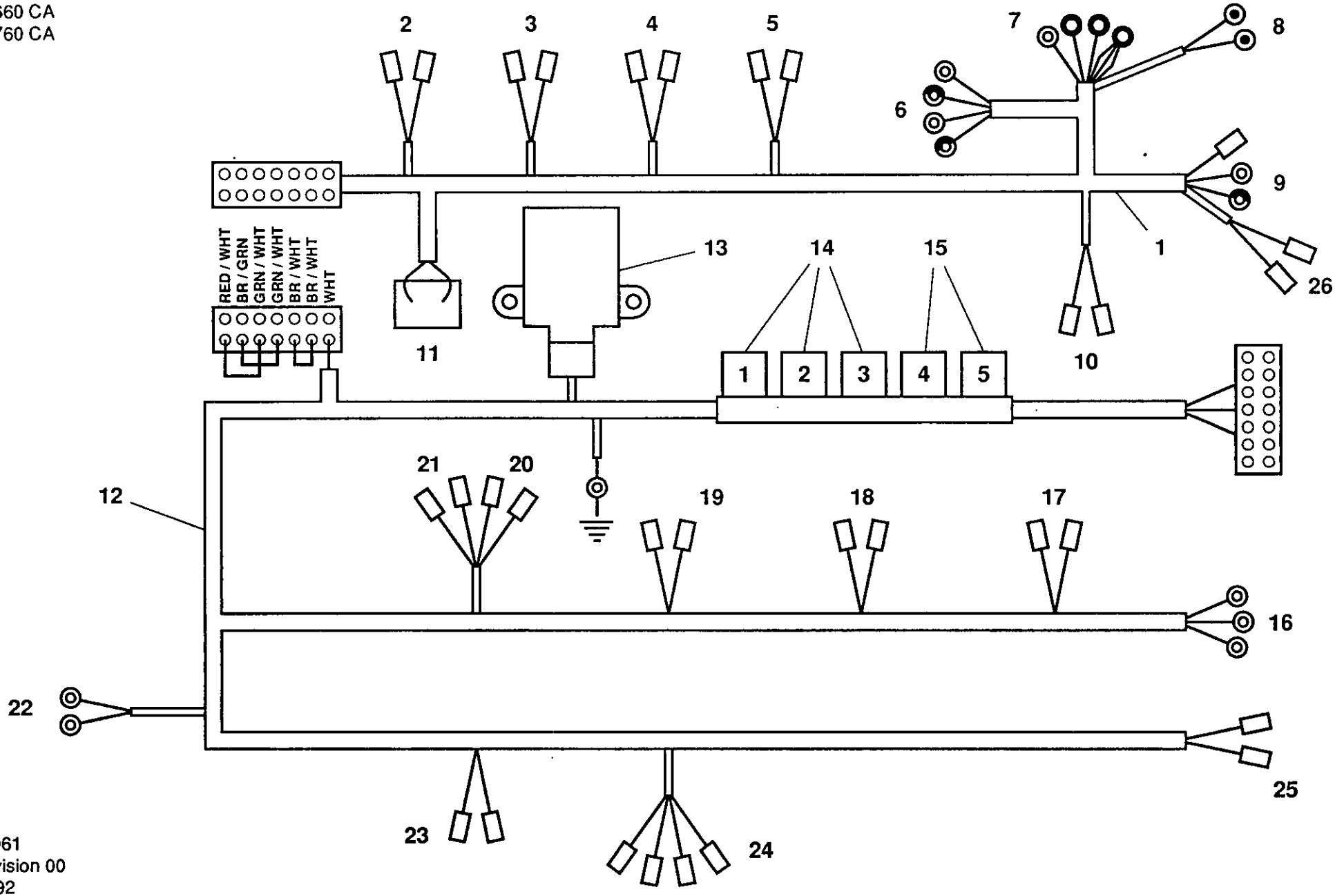


T2061
Revision 00
10/92

	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	36764769	1	Fuse, Tank	Fusible	Zekering	Sicherung
	4	92175405	1	Relay, fuel			
	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

10.10.2 WIRING HARNESS

XHP660 CA
XHP760 CA

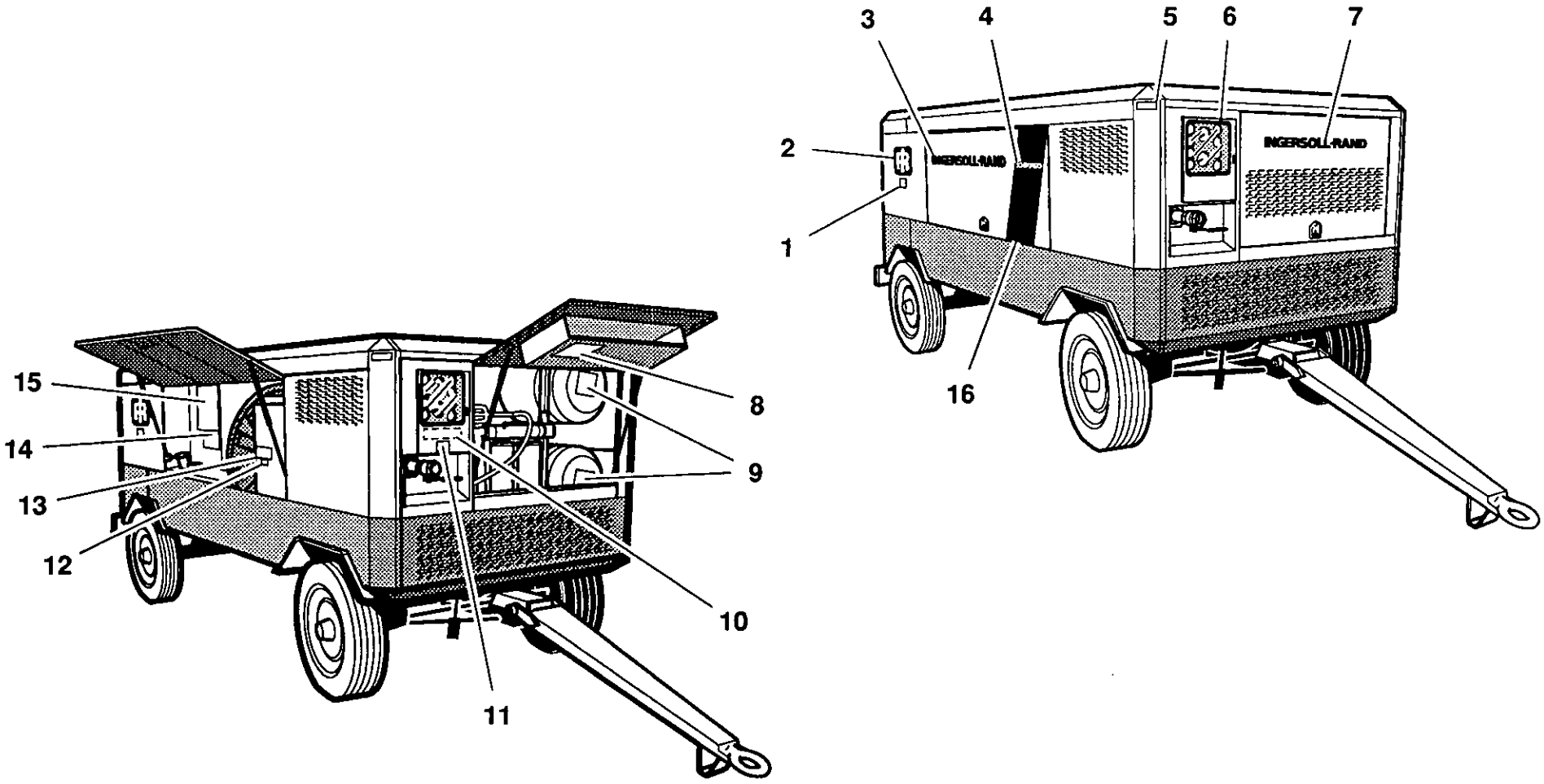


T2061
Revision 00
10/92

	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			

10.11.0 DECALS

XHP660 CA
XHP760 CA



T2057
Revision 00
10/92

	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	DecalAir 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

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**		**KIT – SERVICE**	
	35288117	1	Valve, thermostatic	Soupape thermostatique	Thermostatische regelklep	Thermosatventil
	92744523	1	Element, fuel filter		Brandstoffilter element	
	92956093	1	Regulator		Regulateur	
	92892959	1	Valve, blowdown		Afblaasklep	
	92035948	2	Element, air filter		Luchtfilter element	
	92035955	2	Element, air filter		Luchtfilter element	
	92892934	1	Valve, safety	Soupape de sécurité	Veiligheidsklep	Sicherheitsventil
	92057967	1	Gauge, fuel		Brandstofmeter	
	92062116	1	Gauge, voltmeter			
	92064567	1	Relay 24V	Relais	Relais	Relais
	92960442	3	Belt, drive	Courroie de transmission	Snaar	Antiebsriemen
	36758613	2	Element, oil filter		Oliefilter element	
	92076173	1	Relay 12V	Relais	Relais	Relais
	92086719	1	Key–switch		Spie–schakelaar	
	92095363	1	Gauge, oil level		Oliepeilglas	
	92120013	1	Cap, fuel filler			
	92956937	1	Gauge, RPM		Toerenteller	
	92960673	1	Gauge, vacuum			
	92530047	1	Valve, ball		Kogelklep	
	92658095	1	Element, oil filter		Oliefilter element	
	92894492	1	Gauge, pressure	Manométre	Manometer	Manometer
	92951268	1	Gauge, oil pressure		Oliedrukmeter	
	92951276	1	Gauge, water temperature		Watertemperatuurmeter	

	CPN	Qty.	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA	92951284	1	Gauge, temperature	Affichage température	Temperatuurmeter	Temperaturanzeige
	92945278	1	Gasket set		Pakkingset	
	92057967	1	Gauge, fuel		Brandstofmeter	
	92062116	1	Gauge, voltmeter			
	92867209	1	Hourmeter	Compteur horaire	Urenteller	Betriebsstunden–Zähler
	92951078	1	Valve, minimum pressure (Kit)	Vanne pression minimum	Minimumdrukklep	Druckhalte–ventil
	92960970	1	Switch, fuel level			
	35255553	1	Pushbutton, load			
	36764777	1	Plug, fusible			
	36764769	1	Plug, fusible			
	92175405	1	Relay, fuel			

	CPN	Qty.	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
	92945278	**1**	**KIT – GASKET/'O' RING**		**KIT – PAKKING/'O'RING**	
	95022372	1	'O' Ring, driveshaft seal cover		'O'Ring van aandrijf keering deksel	
	35355775	1	'O' Ring, cover/gearcase		'O'Ring van deksel tandwielhuis	
	35355791	1	'O' Ring, rear bearing housing		'O'Ring achter lagerhuis	
	95026290	2	'O' Ring, rear bearing cover		'O'Ring achter lagerdeksel	

INGERSOLL-RAND.

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

Revision 01
01/93

12.0 INDEX – FASTENERS CODE VISSERIE BEVESTIGINGS– MATERIALEN VERBINDUNGS– ELEMENTE

	CODE	CPN	PAGE #	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA	CA	9579232	10.1.0	Bolt 3/8" x 2"		Bout	
	CY	9231170	310.1.0/10.1.2/10.1.4	BoltM16 x 100		Bout	
	ED	3529935	310.3.0	Capscrew Skt. Hd. M10 x 60			
	EM	9242140	310.3.0	Capscrew Skt. Hd. M8 x 20			
	GQ	9231169	510.1.2/10.1.4	Locknut M16	Ecrou	Borgmoer	
	GR	9230457	510.3.0	Locknut M12	Ecrou	Borgmoer	
	HI	9206133	210.1.0/10.2.4	Lockwasher M10			
	HL	9230467	410.1.0	Lockwasher M10			
	HN	9206147	210.2.4	Lockwasher M10			
	HS	9235937	110.5.0	Lockwasher M10			
	HV	9239137	410.1.2/10.1.4/10.2.4	Lockwasher M20			
	IA	9230465	810.9.0	Lockwasher M6			
	ID	9230466	610.3.0	Lockwasher M8			
	II	9230467	410.7.0	Lockwasher M10			
	KB	9230450	010.9.0	Nut M6	Ecrou	Moer	Mutter
	KU	9231169	510.1.0	Nut self locking M16	Ecrou	Moer	Mutter
	KW	9230454	210.2.0	Nut self locking M6	Ecrou	Moer	Mutter
	LD	9247359	410.3.0	Nut Whiztite M10	Ecrou	Moer	Mutter
	LE	9239864	310.3.0	Nut Whiztite M12	Ecrou	Moer	Mutter
	LF	9239810	610.2.0/10.9.0	Nut Whiztite M6	Ecrou	Moer	Mutter
	LG	9239811	410.2.4/10.3.0/10.3.2 10.7.0	Nut Whiztite M8	Ecrou	Moer	Mutter
	LK	9270059	010.1.0/10.2.4	Nut self locking M20	Ecrou	Moer	Mutter
	OA	9236868	710.1.0/10.2.4/10.3.2	Screw Taptite M6 x 12	Vis	Schroef	Schraube
	OO	9239812	210.2.0	Screw Whizlock M6 x 20	Vis	Schroef	Schraube
	OP	9217904	310.9.0	Screw Whizlock M6 x 25	Vis	Schroef	Schraube

	CODE	CPN	PAGE #	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA	OQ	9239813	10.2.4/10.3.2	Screw Whizlock M8 x 20	Vis	Schroef	Schraube
	OR	9210111	210.3.2/10.7.0	Screw Whizlock M8 x 25	Vis	Schroef	Schraube
	OT	9272299	010.2.0	Screw Panhead M6 x 12	Vis	Schroef	Schraube
	PC	5076332	510.1.0	Bolt M20 x 70		Bout	
	QZ	9230440	110.1.0	Setscrew M10 x 25	Vis	Intelschroef	Sartschrause
	RA	9228098	110.2.4	Setscrew M10 x 30	Vis	Intelschroef	Sartschrause
	RB	9230441	910.7.0	Setscrew M10 x 40	Vis	Intelschroef	Sartschrause
	RF	9210318	510.3.2	Setscrew M12 x 30	Vis	Intelschroef	Sartschrause
	RK	3527897	710.2.4	Setscrew M10 x 75	Vis	Intelschroef	Sartschrause
	RQ	9209575	110.5.0	Setscrew M16 x 25	Vis	Intelschroef	Sartschrause
	RY	3527255	810.2.4	Setscrew M20 x 45	Vis	Intelschroef	Sartschrause
	SJ	9233968	810.2.0	Setscrew M6 x 35	Vis	Intelschroef	Sartschrause
	TQ	9276437	210.1.10	Screw M20 x 80	Vis	Schroef	Schraube
	UJ	4003426	610.1.2/10.1.4	Screw M20 x 50	Vis	Schroef	Schraube
	UK	9239135	810.1.10	Screw M20 x 90	Vis	Schroef	Schraube
	VP	9206149	810.2.4	Washer M10	Rondelle	Ring mo	Unterlegscheibe
	VQ	9230461	710.7.0	Washer M10	Rondelle	Ring mo	Unterlegscheibe
	VT	9206150	610.2.4	Washer M12	Rondelle	Ring mo	Unterlegscheibe
	VZ	9235936	310.1.0/10.1.2/10.1.4 10.5.0	Washer M16	Rondelle	Ring mo	Unterlegscheibe
	WB	9239138	210.1.0/10.1.2/10.1.4 10.2.4	Washer M20	Rondelle	Ring mo	Unterlegscheibe
	WE	3914500	810.2.0	Washer M6	Rondelle	Ring mo	Unterlegscheibe
	WG	9234198	110.2.0	Washer M6	Rondelle	Ring mo	Unterlegscheibe
	WI	9230460	910.3.0	Washer M8	Rondelle	Ring mo	Unterlegscheibe

13.0 TUBE FITTINGS INDEX — CODE RACCORDS

	CODE	CPN	PAGE	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA	AB	3528307	10.5.0/10.6.0/10.6.2	Adaptor	Adapteur	Adapter	Anschlußnippel
	AE	9531011	10.4.0	Adaptor	Adapteur	Adapter	Anschlußnippel
	AG	9287783	10.4.0	Adaptor	Adapteur	Adapter	Anschlußnippel
	AQ	9217378	10.6.0/10.6.2	Adaptor	Adapteur	Adapter	Anschlußnippel
	AW	9528816	10.5.0	Adaptor	Adapteur	Adapter	Anschlußnippel
	BA	9208784	10.4.0	Adaptor	Adapteur	Adapter	Anschlußnippel
	BI	9210621	10.6.0/10.6.2	Adaptor	Adapteur	Adapter	Anschlußnippel
	BL	9296351	10.6.0/10.6.2	Adaptor	Adapteur	Adapter	Anschlußnippel
	DI	9200570	10.6.0/10.6.2	Connector	Connecteur	Koppelstuk	Doppelnippel
	DM	9239554	10.6.0/10.6.2	Connector	Connecteur	Koppelstuk	Doppelnippel
	DT	9247826	10.5.0	Connector	Connecteur	Koppelstuk	Doppelnippel
	EC	9212322	10.4.0	Connector	Connecteur	Koppelstuk	Doppelnippel
	ED	9239546	10.6.0/10.6.2	Connector	Connecteur	Koppelstuk	Doppelnippel
	EE	9211846	10.6.0/10.6.2	Connector	Connecteur	Koppelstuk	Doppelnippel
	EF	9249280	10.6.0/10.6.2	Connector	Connecteur	Koppelstuk	Doppelnippel
	GM	9208783	10.4.0	Elbow	Coude	Bochtstuk	Krümmer
	GX	9239545	10.5.0	Elbow	Coude	Bochtstuk	Krümmer
	HB	9212320	10.6.0	Elbow	Coude	Bochtstuk	Krümmer

	CODE	CPN	PAGE	DESCRIPTION	DESCRIPTION	BESCHRIJVING	BESCHREIBUNG
XHP 660 CA XHP 760 CA	HU	9244129	10.6.0/10.6.2	Elbow	Coude	Bochtstuk	Krümmer
	HV	9247720	710.5.0	Elbow	Coude	Bochtstuk	Krümmer
	HW	3530122	510.8.0	Elbow	Coude	Bochtstuk	Krümmer
	HX	9291897	810.4.0	Elbow	Coude	Bochtstuk	Krümmer
	HY	3529475	010.4.0	Elbow	Coude	Bochtstuk	Krümmer
	HZ	9271603	410.4.0	Elbow	Coude	Bochtstuk	Krümmer
	IB	9541422	310.4.0	Elbow	Coude	Bochtstuk	Krümmer
	IC	9287628	310.6.0	Elbow	Coude	Bochtstuk	Krümmer
	JL	9279185	410.4.0	Tee	Te	T–stuk	T–Stück
	JM	9295670	510.6.0/10.6.2	Tee	Te	T–stuk	T–Stück
	JN	9207353	210.6.0/10.6.2	Tee	Te	T–stuk	T–Stück
	PC	9289985	510.6.0/10.6.2	Adaptor	Adapteur	Adapter	Anschlußnippel
	PD	9295525	110.8.0	Connector	Connecteur	Koppelstuk	Doppelnippel
	SE	9296206	710.8.0	Fitting, barbed			
	SF	9295655	610.8.0	Fitting, barbed			
	TI	9248112	610.5.0	Bush	Palier	Bus	Hülse
	XA	9225593	410.6.0/10.6.2	Nipple		Nippel	
	XB	9235461	210.6.0/10.6.2	Nipple		Nippel	

14.0 PARTS INDEX — INDEX DES Nos DE PIÈCES — ONDERDELENINDEX — AUFLISTUNG DER TEILE

XHP 660 CA
XHP 760 CA

XHP 660 CA
XHP 760 CA

Revision 01
01/93

XHP 660 CA
XHP 760 CA