



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

**Request for
 Quotation**

RFQ NUMBER
7011EC28

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
BUYER 33 304-558-2402

*SCOTT-BALLAHER, INC.
 P.O. BOX 490
 CLOVERDALE, VA. 24077*

DIVISION OF HIGHWAYS
 VARIOUS LOCALES AS INDICATED
 BY ORDER

DATE PRINTED	TERMS OF SALE	SHIP VIA	FOB	FREIGHT TERMS		
06/28/2011						
BID OPENING DATE: 07/27/2011		BID OPENING TIME: 01:30PM				
LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
0001		EA		025-50		
COMPRESSORS, AIR, PORTABLE, ELECTRIC, OVER 25 C.F.M.						
OPEN END CONTRACT						
THE WEST VIRGINIA STATE PURCHASING DIVISION FOR THE AGENCY, THE WEST VIRGINIA DIVISION OF HIGHWAYS, IS SOLICITING BIDS FOR AN OPEN END CONTRACT TO PROVIDE 185 CPM AIR COMPRESSOR/PORTABLE AS DESCRIBED IN THE ATTACHED SPECIFICATIONS.						
MANDATORY PRE-BID						
A MANDATORY PRE-BID WILL BE HELD ON 07/14/2011 AT 10:00 AM, 2019 WASHINGTON ST. E., CHARLESTON, WV, ALL INTERESTED PARTIES ARE REQUIRED TO ATTEND THIS MEETING. FAILURE TO ATTEND THE MANDATORY PRE-BID SHALL RESULT IN DISQUALIFICATION OF THE BID. NO ONE PERSON MAY REPRESENT MORE THAN ONE BIDDER.						
AN ATTENDANCE SHEET WILL BE MADE AVAILABLE FOR ALL POTENTIAL BIDDERS TO COMPLETE. THIS WILL SERVE AS THE OFFICIAL DOCUMENT VERIFYING ATTENDANCE AT THE MANDATORY PRE-BID. FAILURE TO PROVIDE YOUR COMPANY AND REPRESENTATIVE NAME ON THE ATTENDANCE SHEET WILL RESULT IN DISQUALIFICATION OF THE BID. THE STATE WILL NOT ACCEPT ANY OTHER DOCUMENTATION TO VERIFY ATTENDANCE. THE BIDDER IS RESPONSIBLE FOR ENSURING THEY HAVE COMPLETED THE INFORMATION REQUIRED ON THE ATTENDANCE SHEET. THE PURCHASING DIVISION AND THE STATE AGENCY						
SEE REVERSE SIDE FOR TERMS AND CONDITIONS						
SIGNATURE <i>Auson J. Albright</i>				TELEPHONE 540-524-0051	DATE 7/27/2011	
TITLE <i>Sales Rep</i>		FEIN		ADDRESS CHANGES TO BE NOTED ABOVE		

RECEIVED
 2011 07 27 P 1:05
 DIVISION
 WV

WHEN RESPONDING TO RFQ, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



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<p>WILL NOT ASSUME ANY RESPONSIBILITY FOR A BIDDER-S FAILURE TO COMPLETE THE PRE-BID ATTENDANCE SHEET. IN ADDITION, WE REQUEST THAT ALL POTENTIAL BIDDERS INCLUDE THEIR E-MAIL ADDRESS AND FAX NUMBER.</p> <p>ALL POTENTIAL BIDDERS ARE REQUESTED TO ARRIVE PRIOR TO THE STARTING TIME FOR THE PRE-BID. BIDDERS WHO ARRIVE LATE, BUT PRIOR TO THE DISMISSAL OF THE TECHNICAL PORTION OF THE PRE-BID WILL BE PERMITTED TO SIGN IN. BIDDERS WHO ARRIVE AFTER CONCLUSION OF THE TECHNICAL PORTION OF THE PRE-BID, BUT DURING ANY SUBSEQUENT PART OF THE PRE-BID WILL NOT BE PERMITTED TO SIGN THE ATTENDANCE SHEET.</p> <p>EXHIBIT 3</p> <p>LIFE OF CONTRACT: THIS CONTRACT BECOMES EFFECTIVE ON UPON AWARD AND EXTENDS FOR A PERIOD OF ONE (1) YEAR OR UNTIL SUCH "REASONABLE TIME" THEREAFTER AS IS NECESSARY TO OBTAIN A NEW CONTRACT OR RENEW THE ORIGINAL CONTRACT. THE "REASONABLE TIME" PERIOD SHALL NOT EXCEED TWELVE (12) MONTHS. DURING THIS "REASONABLE TIME" THE VENDOR MAY TERMINATE THIS CONTRACT FOR ANY REASON UPON GIVING THE DIRECTOR OF PURCHASING 30 DAYS WRITTEN NOTICE.</p> <p>UNLESS SPECIFIC PROVISIONS ARE STIPULATED ELSEWHERE IN THIS CONTRACT DOCUMENT, THE TERMS, CONDITIONS AND PRICING SET HEREIN ARE FIRM FOR THE LIFE OF THE CONTRACT.</p> <p>RENEWAL: THIS CONTRACT MAY BE RENEWED UPON THE MUTUAL WRITTEN CONSENT OF THE SPENDING UNIT AND VENDOR, SUBMITTED TO THE DIRECTOR OF PURCHASING THIRTY (30) DAYS PRIOR TO THE EXPIRATION DATE. SUCH RENEWAL SHALL BE IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF THE</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE: *Jason A. Alford* TELEPHONE: 540-524-0051 / 540-922-4150 DATE: 7/27/2011
 TITLE: Sales Rep. FEIN: ADDRESS CHANGES TO BE NOTED ABOVE

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<p>ORIGINAL CONTRACT AND SHALL BE LIMITED TO TWO (2) ONE (1) YEAR PERIODS.</p> <p>CANCELLATION: THE DIRECTOR OF PURCHASING RESERVES THE RIGHT TO CANCEL THIS CONTRACT IMMEDIATELY UPON WRITTEN NOTICE TO THE VENDOR IF THE COMMODITIES AND/OR SERVICE SUPPLIED ARE OF AN INFERIOR QUALITY OR DO NOT CONFORM TO THE SPECIFICATIONS OF THE BID AND CONTRACT HEREIN.</p> <p>OPEN MARKET CLAUSE: THE DIRECTOR OF PURCHASING MAY AUTHORIZE A SPENDING UNIT TO PURCHASE ON THE OPEN MARKET, WITHOUT THE FILING OF A REQUISITION OR COST ESTIMATE, ITEMS SPECIFIED ON THIS CONTRACT FOR IMMEDIATE DELIVERY IN EMERGENCIES DUE TO UNFORESEEN CAUSES (INCLUDING BUT NOT LIMITED TO DELAYS IN TRANSPORTATION OR AN UNANTICIPATED INCREASE IN THE VOLUME OF WORK.)</p> <p>QUANTITIES: QUANTITIES LISTED IN THE REQUISITION ARE APPROXIMATIONS ONLY, BASED ON ESTIMATES SUPPLIED BY THE STATE SPENDING UNIT. IT IS UNDERSTOOD AND AGREED THAT THE CONTRACT SHALL COVER THE QUANTITIES ACTUALLY ORDERED FOR DELIVERY DURING THE TERM OF THE CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN.</p> <p>ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN STATE CONTRACT ORDER (FORM NUMBER WV-39) TO THE VENDOR FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINAL COPY OF THE WV-39 SHALL BE MAILED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT, A SECOND COPY MAILED TO THE PURCHASING DIVISION, AND A THIRD COPY RETAINED BY THE SPENDING UNIT.</p> <p>BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THE STATE MAY DEEM THE CONTRACT NULL AND VOID, AND TERMINATE SUCH CONTRACT</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Ms. A. Adams</i>	TELEPHONE 540-524-0051	DATE 7/27/2011
TITLE Sales Rep	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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<p>WITHOUT FURTHER ORDER.</p> <p>THE TERMS AND CONDITIONS CONTAINED IN THIS CONTRACT SHALL SUPERSEDE ANY AND ALL SUBSEQUENT TERMS AND CONDITIONS WHICH MAY APPEAR ON ANY ATTACHED PRINTED DOCUMENTS SUCH AS PRICE LISTS, ORDER FORMS, SALES AGREEMENTS OR MAINTENANCE AGREEMENTS, INCLUDING ANY ELECTRONIC MEDIUM SUCH AS CD-ROM.</p> <p>REV. 05/26/2009</p> <p>EXHIBIT 4</p> <p>LOCAL GOVERNMENT BODIES: UNLESS THE VENDOR INDICATES IN THE BID HIS REFUSAL TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO COUNTY, SCHOOL, MUNICIPAL AND OTHER LOCAL GOVERNMENT BODIES, THE BID SHALL EXTEND TO POLITICAL SUBDIVISIONS OF THE STATE OF WEST VIRGINIA. IF THE VENDOR DOES NOT WISH TO EXTEND THE PRICES, TERMS, AND CONDITIONS OF THE BID TO ALL POLITICAL SUBDIVISIONS OF THE STATE, THE VENDOR MUST CLEARLY INDICATE SUCH REFUSAL IN HIS BID. SUCH REFUSAL SHALL NOT PREJUDICE THE AWARD OF THIS CONTRACT IN ANY MANNER.</p> <p>REV. 3/88.</p> <p>PURCHASING CARD ACCEPTANCE: THE STATE OF WEST VIRGINIA CURRENTLY UTILIZES A VISA PURCHASING CARD PROGRAM WHICH IS ISSUED THROUGH A BANK. THE SUCCESSFUL VENDOR MUST ACCEPT THE STATE OF WEST VIRGINIA VISA PURCHASING CARD FOR PAYMENT OF ALL ORDERS PLACED BY ANY STATE</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>[Signature]</i>	TELEPHONE 7/27/2011	DATE 540-524-0057
TITLE Sales Rep.	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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<p>AGENCY AS A CONDITION OF AWARD.</p> <p style="text-align: center;">NOTICE</p> <p>A SIGNED BID MUST BE SUBMITTED TO:</p> <p style="text-align: center;">DEPARTMENT OF ADMINISTRATION PURCHASING DIVISION BUILDING 15 2019 WASHINGTON STREET, EAST CHARLESTON, WV 25305-0130</p> <p>THE BID SHOULD CONTAIN THIS INFORMATION ON THE FACE OF THE ENVELOPE OR THE BID MAY NOT BE CONSIDERED:</p> <p>SEALED BID</p> <p>BUYER: PAUL REYNOLDS FILE 33</p> <p>RFQ. NO.: 7011EC28</p> <p>BID OPENING DATE:</p> <p>BID OPENING TIME: 1:30 PM</p> <p>PLEASE PROVIDE A FAX NUMBER IN CASE IT IS NECESSARY TO CONTACT YOU REGARDING YOUR BID.</p>						

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Amson A. Abbott</i>	TELEPHONE 540-524-0051	DATE 7/27/2011
TITLE Sales Rep.	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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<p>540-992-3742 FAX</p> <p>CONTACT PERSON (PLEASE PRINT CLEARLY):</p> <p>Tyson A. Abbott</p>						
***** THIS IS THE END OF RFQ 7011EC28 ***** TOTAL:						\$ 20,136.00

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

SIGNATURE <i>Tyson A. Abbott</i>	TELEPHONE 540-524-0051	DATE 7/27/2011
TITLE Sales Rep.	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EQUIPMENT DIVISION

PROCUREMENT SPECIFICATIONS
NO. 6123L

OPEN END CONTRACT
185 CFM AIR COMPRESSOR/PORTABLE

1.0 PURPOSE

It is the purpose of these specifications to describe a 185 CFM Air Compressor/Portable (hereinafter referred to as an "air compressor" or a "unit") to be purchased for use by the West Virginia Division of Highways (DOH) on an Open End Contract basis.

2.0 BIDDING PROCEDURES

The current purchasing procedures regarding bidding as established by the Department of Administration, Purchasing Division, shall apply. Failure to submit the "Request for Quotation" forms, complete in its entirety and according to directions indicated, may subject the bidder to disqualification. **Each bid submitted shall also be accompanied by a Bidder's Evaluation Report completed in detail.** Addendums in order, along with exception sheets, should be with Bidder's Evaluation Report. **FAILURE TO SUBMIT THE BIDDER'S EVALUATION REPORT, COMPLETE IN ITS ENTIRETY, WILL RESULT IN AUTOMATIC DISQUALIFICATION.**

3.0 SPECIFICATIONS

The specifications named herein, mandatory and non-mandatory, establish the acceptable level of quality only and are not intended to reflect a preference or favor any particular brand or vendor.

3.1 EXCEPTIONS TO NON-MANDATORY SPECIFICATIONS

Exception to a non-mandatory unit specification may be made by the bidder, providing the exception is not available from the manufacturer. **Any such exception must be noted on the bidder's evaluation report and should be accompanied by supporting documentation/literature from the manufacturer. Any exception must be indicated on a separate attachment to the bidder's evaluation report and labeled as "Exception to Specifications".** The state reserves the right to waive minor irregularities in bids or specifications in accordance with §148-1-4(f) of the WV Legislative Rules and Regulations.

3.2 MANDATORY SPECIFICATIONS

All specifications preceded by "shall, will, and/or must" or are stated as a "minimum and/or maximum" are mandatory as stated in Purchasing Divisions Policies and Procedures. Any bid failing to meet any mandatory item shall be immediately disqualified. Failure to respond in the appropriate evaluation section will also be grounds for immediate disqualification at the discretion of the State.

A mandatory pre-bid conference is scheduled for this equipment purchase as stated in the RFQ. Vendors having products with variations or exceptions in specified mandatory items are expected to address any such variations or exceptions during the pre-bid conference. **The State shall review and consider any such variation or exception, and may at its sole discretion, issue an addendum to change mandatory specifications deemed to be in the State's best interest. Bids from any vendor failing to attend the mandatory pre-bid shall be disqualified. Bids containing any variation or exception to a mandatory specification that was not addressed during the pre-bid conference and accepted by the issuance of an Addendum shall be disqualified.**

4.0 REPRESENTATIVE UNIT FOR TEST

The successful vendor must (if specified) provide DOH one (1) completed representative unit to be observed and evaluated on each order to insure compliance with specification. If requested, the time period for testing and evaluation shall be seven (7) working days following receipt of the unit. DOH will incur no obligation for deterioration of surfaces, finishes, seals, and mechanical or electrical parts on the unit resulting from operation and testing within the limits of these specifications; nor will DOH incur obligation for damage to the unit resulting from failure to meet specifications when due care and attention is given by DOH and testing is done within the limits of these specifications. Failure of the pilot unit to satisfactorily meet specifications as bid may be cause for cancellation of the purchase order, and return of the delivered unit along with all associated equipment to the vendor at the vendor's expense.

4.1 CONDITION OF UNIT(S) UPON DELIVERY

All units must arrive at the prescribed delivery point having been completely preserviced with oil, lubricants, and coolant. All prescribed precautions pertaining to first operations and break-in of the unit are to be posted conspicuously on the unit for ready observance by the operator.

4.2 DELIVERY

Delivery point of the completely assembled representative unit will be the DOH, Equipment Division, Route 33 at Brushy Fork Road, Buckhannon, West Virginia (26201).

The vendor is responsible for guaranteeing delivery of the completed units within the time specified and agreed to by the State. Delivery is preferred within 90 days after receipt of purchase agreement. The vendor is responsible for establishing and coordinating delivery terms with allied manufacturers or suppliers. Delivery terms should be stated in the bid and the State reserves the right to accept or reject such terms. Failure to reach an agreement may result in rejection of the bid. **The successful bidder shall provide their manufacturer's confirmation of the order to the WVDOH contact person within seven (7) working days after receiving the approved purchase order.**

A completed pilot model for inspection must be provided within 45 calendar days after receipt of the purchase agreement by the successful vendor.

Delivery is an integral part of this specification and failure to comply will be cause to initiate a D.O.T. Administrative Form WV-82, Vendor Performance Form. The WV-82 Form will provide a means of officially notifying the Purchasing Division and the vendor of unsatisfactory performance; such as late deliveries, poor service, inadequate parts supplies, etc.

The decision to initiate subject Form will be at the sole discretion of the D.O.H. Commissioner's established Equipment Review Board.

Issuance of the WV-82 Vendor Complaint Form on unsatisfactory delivery against any vendor will be cause to refuse to consider similar items from those vendors on future Request For Quotations.

(NOTE: Delivery time could be altered due to labor strikes, severe inclement weather conditions, etc.)

5.0 AWARD CRITERIA

- 5.1 DOH will recommend the award in accordance with the RFQ evaluation criteria described in the requisition. **The award shall be made to the lowest unit cost vendor that meets or exceeds the specifications.** DOH reserves the right to place multiple orders in any quantity.

6.0 SPECIFICATIONS AND GUIDELINES - GENERAL

6.1 IDENTIFICATION OF THE UNIT BEING PROPOSED

The bidder must identify the unit by manufacturer, model, series, and year of manufacture, to enable identification by DOH in the manufacturer's specifications of the proposed unit. The bidder will submit complete descriptive literature of the proposed unit, to establish that the bid is the manufacturer's most current model,

including latest engineering improvements, which have been, or will imminently be, regularly advertised and sold on the open market. The unit specified herein and offered to be manufactured after January 1, 2011 and be clearly identified and marked with date of manufacture.

6.2 OPERATING AND SERVICE MANUALS AND PARTS LISTS

An operator's manual must be included with each unit upon delivery. A "line sheet" (if applicable) and Equipment Preventative Maintenance Questionnaire (as shown in X6.2 of the Bidder's Evaluation Report) must be with pilot unit upon delivery. In addition, there must be 12 service, shop, or maintenance manuals; ten (10) to be distributed to the Districts and two (2) for the Equipment Division. Also, there must be 14 parts manuals; ten (10) to be distributed to the Districts and four (4) for Equipment Division use. CD ROM is preferred in lieu of parts or service manuals.

*** NOTE: MANUALS SHALL BE DELIVERED UPON COMPLETION OF DELIVERY OF TOTAL UNITS. FAILURE TO DO SO WILL DELAY PAYMENT.**

6.3 TRAINING:

Manufacturers and/or dealers will be required to stage a thorough seminar on the subjects of Preventative Maintenance, Operator and Mechanic Training. **In order to keep the operators and mechanics updated, the successful vendor shall conduct training with each purchase order against this open end contract.** Training is preferred within 2 working days after delivery of the pilot unit on the individual purchase order.

Manufacturers and/or dealers shall be required to furnish the Training Academy with one (1) Operator's Manual to be shipped direct to WVDOH Training Academy, Post Office Box 610, Buckhannon, West Virginia 26201 prior to delivery of the pilot.

The seminar to be held at the W. Va. Division of Highways, Equipment Division, Buckhannon, West Virginia.

6.4 PREVENTIVE MAINTENANCE AND OPERATOR PROCEDURES:

Manufacturers and/or dealers will be required to submit to the Equipment Division, in addition to the operating and service manuals, booklets and pamphlets explaining the Preventive Maintenance and Operator Procedures to be used by the operators of this equipment, and must include such things as daily prestart inspection procedure, service schedule, and routine maintenance required, safety precautions, etc.

The successful vendor shall furnish all training aids; i.e., videos, projectors, etc. required in conducting the training.

6.5 WARRANTY AND SERVICE POLICY

The Manufacturers warranty or service policy is to apply to the unit. Such warranty or service policy is to be recognized at any authorized unit dealer, representing manufacturer of proposed unit throughout the State of West Virginia. The applicable warranty or service policy will not be contingent upon obtaining routine service, lubrication, and servicing of the unit from factory authorized agencies. It will be the responsibility of the bidder to have available labor to repair or replace any defective replacement parts, components and materials, and to have available those replacement parts, components, and/or materials found to be defective during the terms of the warranty period. The bidder should state the labor rates, locations where parts will be stocked, availability of parts, and discounts offered for parts, when terms of the warranty offer a pro-rated cost for parts and labor. In addition, the successful bidder should offer field work to repair or replace defective parts, components, and materials found to be defective during the terms of the warranty and should provide mechanic's travel rates, mileage charges, field mechanic rates, and any surcharge for miscellaneous items, if applicable, for field work during the warranty period. Submit to Division of Highways any technical or engineering improvements during the term of the warranty. **The unit must be accompanied upon delivery by the unit's manufacturer's executed warranty or service policy.**

A mandatory minimum two (2) year bumper to bumper basic parts and labor warranty excluding abuse and normal wear items is required for this unit.

THE "WARRANTY AND SERVICE POLICY QUESTIONNAIRE" ATTACHED IN THE BIDDER'S EVALUATION REPORT MUST BE COMPLETED IN ITS ENTIRETY BY THE SUCCESSFUL BIDDER OR MANUFACTURER PRIOR TO DELIVERY OF THE PILOT MODEL. (SEE SECTION X6.5 OF BIDDER'S EVALUATION REPORT).

6.6 EVALUATION COMMITTEE REQUIREMENTS

Detailed component specifications, product literature, component models, required for specification compliance determination by the Evaluation Committee should be provided with each bid. Any information supplied that is contrary to/or conflicting with the specifications and/or attached Bidders Evaluation Report may be sufficient cause for rejection of bid.

6.7 UNSPECIFIED ACCESSORIES & FEATURES

All parts, equipment, accessories, material, design and performance characteristics not specified herein, but which are necessary to provide a complete unit, must be furnished with each unit and required to conform to strength, quality of material, and quality of workmanship to those which are advertised and provided to the market in general by the unit industry.

All parts and accessories advertised and regularly supplied as standard shall be included, except those which would represent duplication of these specified, and except those which, by specification, are not to be furnished. All standard safety features, required by Federal and State Law, shall be included.

7.0 SPECIFICATIONS OF THE QUOTED UNIT ARE AS FOLLOWS:

7.1 Compressor:

7.1.1 Single stage rotary screw type.

7.1.1.1 Self contained, fully enclosed heavy duty portable air compressor.

7.1.2 Free air capacity 185 CFM.

7.1.3 Lubrication: Oil flooded or pressure type to provide sealing, lubrication, and cooling of air pump.

7.1.4 Oil filter replaceable element or spin-on flow type.

7.1.5 Air intake filter dry type with maintenance signal.

7.1.6 Bearings anti-friction type, heaviest duty offered.

7.2 **Air Receiver shall be ASME code construction and have a working pressure of 100 PSIG, minimum.**

7.2.1 **Air receiver capacity 1.05 cubic feet minimum with safety valve and two (2) 3/4 inch service valves, universal type.**

U 7.2.2 Discharge line to be fitted with an automatic discharge moisture trap. Size and capacity determined by manufacturer for compressor ratings and to be located between air receiver and service valve.

7.2.3 Two (2) discharge line lubricators - one (1) quart capacity each, to each outlet, to be fitted and easily accessible.

7.3 Engine:

7.3.1 Engine to be diesel powered, water cooled.

7.3.1.1 Unit to have a minimum of 49 BHP at a continuous rated speed of 2300 RPM minimum.

7.3.2 To have a twelve (12) volt electrical system. Heaviest duty system and batteries offered.

7.3.3 Fuel tank capacity 20 US gallon minimum.

7.3.4 Rain cap to protect engine and muffler.

7.4 Cooling System shall be of sufficient capacity to allow engine and compressor to operate at rated air delivery and pressure continuously.

7.4.1 Engine coolant rated at -32 degrees F.

7.5 Safety Devices and Instrumentation:

7.5.1 Automatic blow-down valve.

7.5.2 Engine shutdown devices to be activated by high discharge air temperature, low engine oil pressure, and high engine temperature.

7.5.3 Excess air flow safety valve and a minimum pressure valve.

7.5.4 The following gauges to be included in the units instrument panel:

7.5.4.1 Tachometer, engine RPM.

7.5.4.2 Ammeter or voltmeter.

7.5.4.3 Engine temperature gauge.

7.5.4.4 Engine oil pressure gauge.

- 7.5.4.5 Discharge air pressure gauge.
- 7.5.4.6 Fuel gauge.
- 7.5.4.7 Hour Meter
- 7.6 Start and stop controls to be located on control panel.
- 7.7 Operation, maintenance and instruction decals to be located in a conspicuous place near controls.
- 7.8 Controls 0-100 percent demand type, controlling engine speed and intake of air compressor.
- 7.9 Accessories:
 - 7.9.1 Service drain valve.
 - 7.9.2 Vandalism protection kit(s).
 - 7.9.3 Lockable tool boxes.
 - 7.9.4 One (1) set of replacement filters for compressor air and lube oil and engine air, fuel and lube oil, included with delivery of each unit.
 - 7.9.5 Lifting bail, single point.
 - 7.9.6 Twin hose reels capable of holding 50 foot x 1 inch O.D. hose.
- 7.10 Compressor shall be mounted on a two (2) wheeled type towing trailer and to meet the following criteria:**
 - 7.10.1 Engine and compressor to be frame mounted in a manner to minimize vibration.
 - 7.10.2 Suspension shall be of sufficient strength and handling of unit at a top speed of 55 MPH.**
 - 7.10.3 Retractable, swivel type third wheel.
 - 7.10.4 Tires: P205/75R15 load range C, highway tread.
Wheel: drop center 7 inches wide.

- 7.10.5 Hub to be equipped with trailer wheel bearing protector (bearing Buddy Model 1980 or equal).
- 7.10.6 Drawbar with pintle eye and safety chain.
- 7.10.7 Stop lights, tail lights, directional indicators, (LED type) license plate light and license plate bracket.
- 7.10.8 Cole Hersee No. 12081 (or approved equal) male plug for towing vehicle.
- 7.10.9 **Trailer shall meet or exceed all applicable West Virginia Department of Motor Vehicle codes and be towable at speeds up to 55 MPH.**
- 7.11 Paint: The unit should be painted manufacturers standard
- 7.12 **Vendor must certify that unit offered will meet or exceed the Occupational Safety and Health Act of 1970" or subsequent changes that are in effect at time of manufacture of the unit.**
- 7.13 **Advertising: Only one manufacturer's name decal, which must include the model number, may appear on the exterior of the unit. Logos created through the stamping or casting process of manufacture are also acceptable. No logos will interfere with the Divisions logo striping and decal.**

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
EQUIPMENT DIVISION

BIDDER'S EVALUATION REPORT

PROCUREMENT SPECIFICATIONS FOR OPEN END CONTRACT

NO. 6123L

185 CFM AIR COMPRESSOR/PORTABLE

NOTE TO BIDDER: Procurement Specification No. 612-1-L, Paragraph 2.0 recommends the completion and submittal of this Report with your bid. Purpose of this Report is to enable the West Virginia Division of Highways Evaluation Committee to make full and fair evaluation of the bid. Addendums in order, along with a summary of exception as a separate attachment, should be with Bidder's Evaluation Report. FAILURE TO SUBMIT THIS REPORT, COMPLETE IN ITS ENTIRETY, MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

Reference Requisition No.: 7011EC28

Bidder's Name: Scott Hallaker, Inc.

Address: P.O. Box 490, 210 Updike Lane Cloverdale, VA 24077

Telephone Number: 540-992-4150

Years Bidder has been registered to do business with the State of West Virginia: 0 YRS.

Years Company has been an authorized dealer for proposed unit: 1 YRS.

X3.2 Have you complied with all mandatory specifications? YES NO

X4.2 DELIVERY:

X4.2.1 Delivery date of completed representative unit: 60 Calendar Days After
Receipt of Purchase Agreement

X4.2.2 Delivery date of balance of completed units: 90 Calendar Days After Receipt of
Purchase Agreement

The "Bidder's Evaluation Report" is available for download on Purchasing's Web site at
www.state.wv.us/admin/purchase

X5.0 AWARD CRITERIA;

X5.1 Price per unit:

20,136.00 per unit

X6.0 SPECIFICATIONS - GENERAL

X6.1 Manufacturer, model, series, and date of manufacture of proposed unit:

ATLAS-Copco, XAS 185 J.D7, Hand HAT, AUGUST 2011

Is descriptive literature, fully describing proposed unit attached to your bid? YES NO

If not, why? _____

X6.2 Will the required number of service manuals, and complete parts list be delivered to the Equipment Division at Buckhannon upon completion of delivery of total units?

YES NO

Will the required Equipment Preventive Maintenance Form (Section X6.2 of Bidders Evaluation Report) be provided upon inspection of the pilot unit?

YES NO

X6.3 TRAINING:

Will training seminar be conducted on Preventive Maintenance, Operator and Mechanic Training
 YES NO

Will you conduct training with each purchase order against this open end contract?
 YES NO

Will training be conducted within 2 working days from the delivery of the pilot unit on the individual purchase order?
 YES NO

If NO, explain time frame _____

Will an Operator's Manual be furnished directly to Training Academy prior to the delivery of the pilot?
 YES NO

X6.4 If you are the successful vendor, will you furnish all training aids, i.e., videos, projectors, required in conducting the training?
 YES NO

X6.4.1 Will all manuals, booklets, etc. explaining preventive maintenance, operator procedures, and service schedule be delivered with each unit?
 YES NO
 If NO, explain _____

X6.5 WARRANTY AND SERVICE POLICY

Will the warranty and service you provide comply with all areas as stated in Section 6.5 of specifications
 YES NO

Is warranty literature attached?
 YES NO

Is a minimum two (2) year bumper to bumper basic parts and labor warranty excluding abuse and normal wear items included?
 YES NO

Describe:

AS STATED

X6.5 WARRANTY AND SERVICE POLICY QUESTIONNAIRE

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY AND SUBMITTED WITH YOUR BID.

(If additional lines are needed, make copies of form.)

1. Define the terms of the standard warranty. If not offered, so state. (Attach copy)

2-year Bumper to Bumper

2. Define warranty service to be performed at DOH facilities and warranty service to be performed at manufacturer's representative facility. List name and location of manufacturer's representative.

Normal Service + Wear ITEMS Taken Care of By DOH,

3. List locations for parts inventories that are within the State of West Virginia. Also, list availability levels, if known.

* Will have shops in Princeton + South Charleston

4. During the term of warranty, list the guarantee discount to manufacturer's published list price for parts that bidder will sell the parts to owner.

A.	Terms: Net 30	Manufacturer's published list price less:	<u>15</u>	% discount
B.	Terms: Net 60	Manufacturer's published list price less:	<u>0</u>	% discount
C.	Terms: Net 90	Manufacturer's published list price less:	<u>0</u>	% discount

5. During the term of warranty, will all manufacturers or engineering improvements be submitted to Division of Highways? YES NO

6. During the term of warranty, list the guaranteed rates charged for repair to the unit.

A. Shop Rate \$ 75.00 per mechanic hour

B. Travel Time Charge \$ 75.00 per mechanic hour
(Specify if one-way) 2 way; port to port _____

C. Mileage Charge \$ 2.50 per vehicle mile
(Specify if one-way) _____; port to port _____

D. Field Mechanic Rate \$ 75.00 per mechanic hour

E. Specify period of time that prices are in effect: 2011-2012

F. Surcharge for miscellaneous items: 15 %

X6.6 EVALUATION COMMITTEE REQUIREMENTS

Is all component specifications, product literature, component models provided for Evaluation Committee bid determination? YES NO

X6.7 Will all parts, equipment, accessories, material, design and performance characteristics not specified herein, but which are necessary to provide a complete unit, be furnished with the unit and conform in strength, quality of material, and quality of workmanship to those which are advertised and provided to the market in general by the unit industry?

YES NO

X6.7.1 Are all parts and accessories adequate and regularly supplied as standard to be included except those which may be duplications of specifications herein, and except these by specification are not to be furnished?

YES NO

X6.7.2 Are all standard safety features that are required by Federal and State statutes of law included?

YES NO

X7.0 SPECIFICATIONS OF THE QUOTED UNIT:

The bidder should complete the following schedule in order for the Division to compare the actual bid unit to the specifications. Should the bidder except a requirement, then such exception may be only on the basis that such feature is not offered by the manufacturer. The Division will have the sole discretion as to whether the bidder's substitution meets the requirements of the specification.

Manufacturer: ATLAS-COPCO Model: XAS 185 JD7

X7.1 Compressor:

X7.1.1 Type: Screw

X7.1.1.1 Is unit self-contained, fully enclosed HD portable air compressor? YES NO

X7.1.2 Free Air Capacity: 185 CFM

X7.1.3 Type of lubrication for sealing and cooling of pump? oil INJECTED

X7.1.4 Is oil filter the replaceable element or spin-on full flow type ?

X7.1.5 Is air intake filter dry type with maintenance signal? YES NO

X7.1.6 Are bearings anti-friction type and heaviest duty offered? YES NO

- X7.2 Is air receiver ASME code construction? YES NO
Working pressure ~~100~~ 125 PSIG
- X7.2.1 Air receiver capacity 185 cubic feet with safety valve and two (2) 3/4" service valves (universal type) YES NO
- X7.2.2 Is discharge line fitted with an automatic discharge moisture trap and located between air receiver and service valve? YES NO
- X7.2.3 Does unit have two (2) discharge line lubricators of one (1) quart each to each outlet, fitted and easily accessible? YES NO
- X7.3 Engine:
- X7.3.1 Type: John Deere A02ATF281 IT4
How is engine cooled? Water
- X7.3.1.1 Unit BHP 49 at continuous rated speed of 2750 RPM
- X7.3.2 Electrical system equipped with 12 volt and heaviest duty offered? YES NO
- X7.3.3 Fuel tank capacity 25 US gallons
- X7.3.4 Is rain cap provided to protect engine and muffler? Not Needed YES NO
- X7.4 Is cooling system of sufficient capacity to allow engine and compressor to operate at rated air delivery and pressure continuously? YES NO
- X7.4.1 Engine coolant rated at -32 degrees F
- X7.5 Safety Devices and Instrumentation:
- X7.5.1 Does unit have automatic blow-down valve? YES NO
- X7.5.2 Does engine shut down by high discharge air temperature, low engine oil pressure and high engine temperature? YES NO
- X7.5.3 Does unit have excess air flow safety valve and minimum pressure valve? YES NO
- X7.5.4 Are the following gauges located in units instrument panel:
- X7.5.4.1 Tachometer, engine RPM YES NO
- X7.5.4.2 Ammeter or Voltmeter YES NO
- X7.5.4.3 Engine temperature gauge YES NO

- X7.5.4.4 Engine oil pressure gauge YES NO
- X7.5.4.5 Discharge air pressure gauge YES NO
- X7.5.4.6 Fuel gauge YES NO
- X7.5.4.7 Hour meter YES NO
- X7.6 Are start and stop controls located on control panel? YES NO
- X7.7 Are all operation, maintenance and instruction decals located in a conspicuous place near controls? YES NO
- X7.8 Are controls the 0-100% demand type/controlling engine speed/intake of air compressor? YES NO
- X7.9 Accessories:
- X7.9.1 Does unit have service drain valve? YES NO
- X7.9.2 Is vandalism protection kit included? YES NO
- X7.9.3 Are lockable tool boxes included? YES NO
- X7.9.4 Does each unit have one (1) set of replacement filters for compressor air and lube oil and engine air, fuel and lube oil included with delivery? YES NO
- X7.9.5 Lifting bail, single point? YES NO
- X7.9.6 Are twin hose reels capable of holding 50 foot' x 1 inch O.D. hose? YES NO
- X7.10 Is compressor mounted on a two (2) wheeled type towing trailer? YES NO
- X7.10.1 Is engine/compressor frame mounted in a manner to minimize vibration? YES NO
- X7.10.2 Is suspension sufficient strength/handling of unit at top speed of 55 MPH? YES NO
- X7.10.3 Does trailer have retractable, swivel type third wheel? YES NO
- X7.10.4 Tire size P205/75R15 Tread Type All Weather Load Range _____
Is wheel drop center, 7" wide? YES NO
- X7.10.5 Does hub have trailer wheel bearing protector? YES NO
Manufacturer: Not Sure
- X7.10.6 Does unit have draw bar with pintle eye and safety chains? YES NO

- X7.10.7 Does trailer have stop lights, tail lights, directional indicators, (LED type) license plate light and license plate bracket? YES NO
- X7.10.8 Male plug for towing vehicle specify COLE Her SEE #12081
- X7.10.9 Does trailer meet or exceed all applicable West Virginia Department of Motor Vehicles Codes, and is towable at speeds up to 55 MPH? YES NO
- X7.11 Paint: Will paint be manufacturers standard YES NO
- X7.12 Does unit meet or exceed the OSHA of 1970" and/or subsequent changes? YES NO
- X7.13 Does unit conform to the advertising guidelines? YES NO

Warranty Statement

Portable Air Compressors

Atlas Copco portable air compressors are warranted to be free from defects with regard to materials and workmanship for the period of fifteen (15) months from date of shipment from the factory, or twelve (12) months from date of initial startup, whichever occurs first, without limitation in running hours.

Air compressor elements and gearbox assemblies used in Atlas Copco portable air compressors, are warranted to be free from defects with regard to materials and workmanship for the period of twenty-seven (27) months from date of shipment from the factory, or twenty-four (24) months from date of initial startup, whichever occurs first, without limitation in running hours. Atlas Copco service kits including parts and oils (Paroil) must be used to maintain warranty.

- **Units powered by Caterpillar Diesel**

Caterpillar Diesel engines are warranted to be free from defects with regard to materials and workmanship for the period of twelve (12) months from the date of initial startup, without limitation in running hours or for the period of twenty-four (24) months from the date of initial startup, prior to the accumulation of 3000 running hours.

- **Units powered by Deutz Diesel**

Deutz Diesel engines are warranted to be free from defects with regard to materials and workmanship for the period of twelve (12) months from the date of initial startup, without limitation in running hours or for the period of twenty-four (24) months from the date of initial startup, prior to the accumulation of 2000 running hours.

- **Units powered by John Deere Diesel**

John Deere Diesel engines are warranted to be free from defects with regard to materials and workmanship for the period of twelve (12) with unlimited hours or twenty-four (24) months prior to the accumulation of 2000 running hours from the time of initial startup.

- **Units powered by Kubota Diesel**

Kubota Diesel engines are warranted to be free from defects with regard to materials and workmanship for the period of twenty-four (24) months from the date of initial startup, or accumulation of 2000 running hours, whichever occurs first. Main components of the engine have a warranty of (36) months from the date of initial startup, or accumulation of 2000 running hours, whichever comes first – including: crankcase (cylinder block), cylinder head, crankshaft, connecting rod, pistons, gears, flywheel, flywheel housing, oil pump, pulleys, governor, inlet manifold, & oil pan.



Five Year Single-Stage Compressor Protection Program Registration Form

Atlas Copco Range of Portable Oil Injected Rotary Screw Single-Stage Compressors

Customer Name & Address:

Phone: _____

Fax: _____

Email: _____

Model	Serial No.	Start Date	Invoice No.
Compressor oil type:		Paroil M	or Paroil S

The Five Year Single-Stage Compressor Protection Program is effective sixty-six (66) months from shipment from Atlas Copco Construction Equipment or sixty (60) months from start-up, whichever occurs first. Atlas Copco warrants that the air-end of the XAS range of single-stage compressors will be free of defects in material or workmanship for a period of five (5) years up to 10,000 hours, provided the customer has met the conditions listed below. Failure to follow these terms will invalidate the Protection Program.

- Atlas Copco standard warranty limitations apply.
- To initiate the protection program, this Five Year Single-Stage Compressor Protection Program Registration Form must be submitted to Atlas Copco Construction Equipment within 30 days of start-up.
- Only Genuine Atlas Copco spare parts and lubricants may be used in the machine during the protection period.
- The equipment must be maintained according to the published service schedules.
- The customer and/or dealer must keep records of all spare parts purchases and scheduled maintenance. The following records will be required for any claim within the Five (5) Year Single-Stage Compressor Protection Program:
 - Copies of all maintenance records for the unit
 - Purchases of Paroil and 1,000 hour maintenance kit within the first year and annually during extended warranty period
 - In the event of failure during the warranty period a compressor oil sample may be required.

Return this form within thirty (30) days of start-up of compressor to:

Attn Portable Warranty
 Atlas Copco Construction Equipment LLC
 Fax: 800-952-7975
 Email: acce.warranty@us.atlascopco.com

By signing below I understand and agree to the terms in the above outlined Five Year Compressor Protection Program.

SIGNED: ON BEHALF ATLAS COPCO: _____ DATE: _____

 ON BEHALF OF CUSTOMER: _____ DATE: _____

SCOTT-GALLAHER, INC.
P.O. BOX 490
CLOVERDALE, VA. 24077

DEPARTMENT OF ADMINISTRATION

7/27/2011

PURCHASING DIVISION

BUILDING 15

2019 WASHINGTON STREET, EAST

CHARLESTON, WV. 25305-0130

RFQ: 7011EC28

EXCEPTIONS TO BID:

6.5 Warranty- 2 year bumper to bumper warranty with use of Atlas-Copco filters and lubricants

7.2.2 Water Trap- No

7.2.3 Lubricators- Shipped Loose, Recommend they be attached as close to work tools as possible.

7.3.4 Rain Cap- Not needed, side exhaust

7.9.1 Service Drain Valve-No?

7.10.4 Wheel Drop Center 7"?

Tyson A. Abbott

Scott-Gallaher, Inc.

540-524-0051 cell

SCOTT-GALLAHER, INC.
P.O. BOX 490
CLOVERDALE, VA. 24077

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Atlas Copco Portable air compressors

XAS 185 JD7 HardHat™



Sustainable Productivity

Atlas Copco

All the options you need for your specific applications

The Hardhat features a revolutionary polyethylene canopy design - the toughest in the industry. It will not rust, dent, corrode or fade, and it resists extreme temperatures. The canopy protects the compressor from damage at the worksite, which helps reduce the cost of ownership and boost resale value. Because it can "take a beating" in a variety of applications, it's ideal for the rental industry.

- Extremely reliable 49 HP John Deere engine (EPA CARB-compliant)
- The most efficient air end in the compressor industry
- Control panel conveniently located at waist level
- Discharge valves on the same end as control panel
- Easy access to filters and the oil separator tank
- Road lights standard
- Guaranteed 185 CFM
- Extremely durable body
- Removable baffle for easy cleaning
- Award-winning design

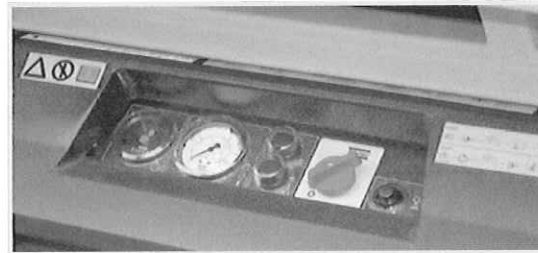


Danger: Compressed air should never be supplied as breathing air unless air is properly purified for breathing. Atlas Copco assumes no responsibility or liability related to the purchaser's/user's breathing air system.

The information contained herein is general in nature and is not intended for specific construction, installation or application purposes.



Atlas Copco



Technical Specifications

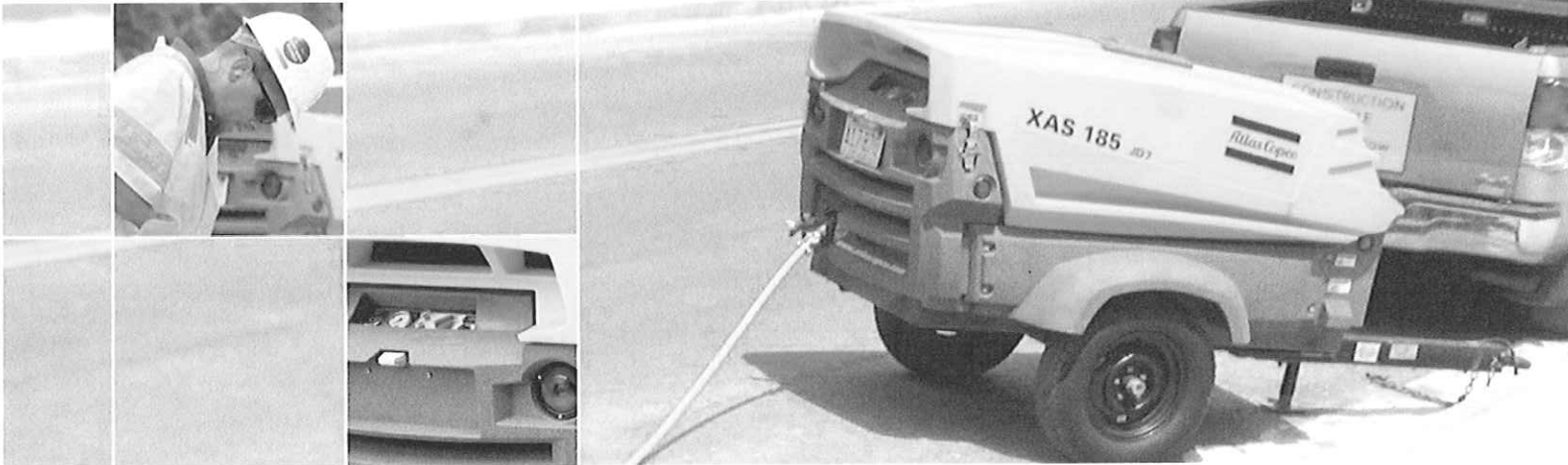
Compressor Model	XAS 185 JD7
Normal effective working pressure	100 PSI
Maximum unloading working pressure	125 PSI
Actual free air delivery	185 CFM
Cooling system	(Air/Oil)
Oil Capacity	2 Gal
Engine/John Deere	
Model number	4024TF281 Interim Tier 4
Cooling system	Water
Number of cylinders	4
Capacity of oil sump (approx.)	2 Gallons
Capacity of fuel tank	25 Gallons
Speed-maximum loaded	2750 RPM
Speed-unloaded	1600 RPM
Horsepower	49 BHP
Unit Dimensions	
Overall length-wheel mounted	127 in.
Overall height-wheel mounted	61 in.
Overall width-wheel mounted	64 in.
Weight dry-wheel mounted	2170 lbs.
Weight wet-wheel mounted	2330 lbs.

Atlas Copco Construction Equipment

Atlas Copco Construction Mining Technique USA LLC
 3700 East 68th Avenue
 Commerce City, CO 80022
 Tel. 800-732-6762
 Fax. 303-288-8828
www.atlascopco.us

Atlas Copco Portable air compressors

XAS 185 JD7 HardHat™



Sustainable Productivity

Atlas Copco



All the options you need for your specific applications

The Hardhat features a revolutionary polyethylene canopy design - the toughest in the industry. It will not rust, dent, corrode or fade, and it resists extreme temperatures. The canopy protects the compressor from damage at the worksite, which helps reduce the cost of ownership and boost resale value. Because it can "take a beating" in a variety of applications, it's ideal for the rental industry.

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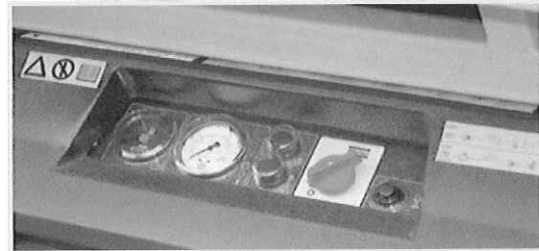


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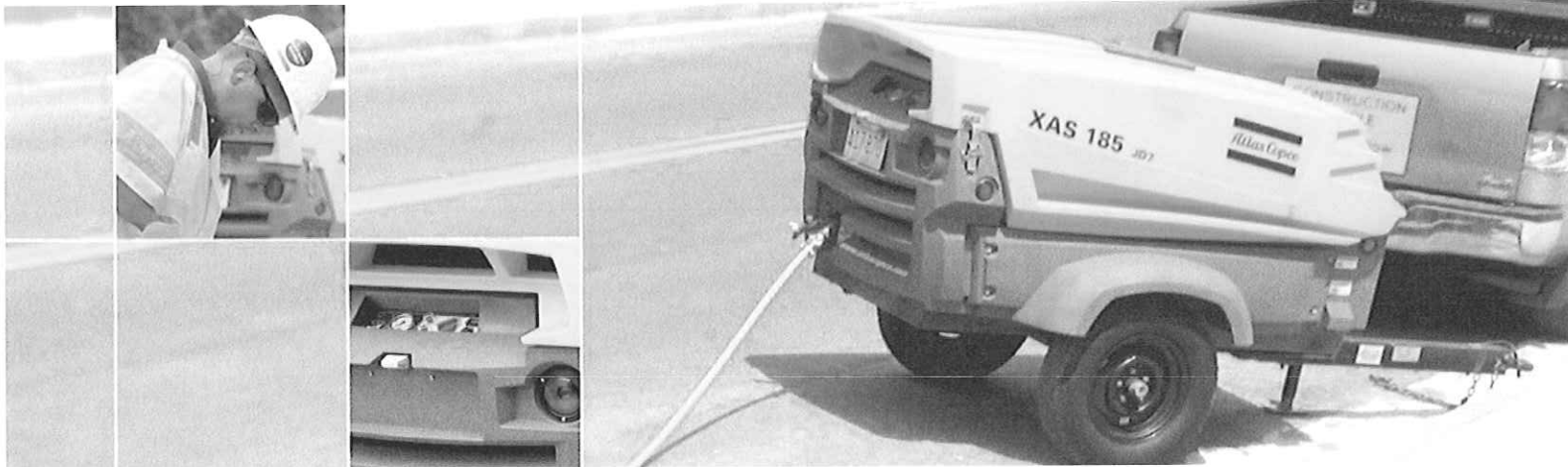
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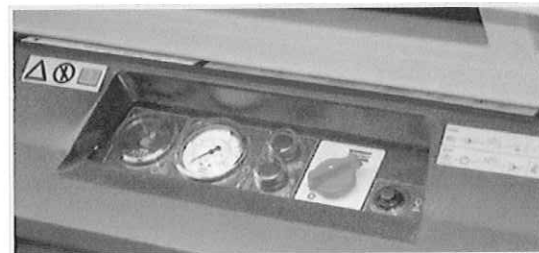


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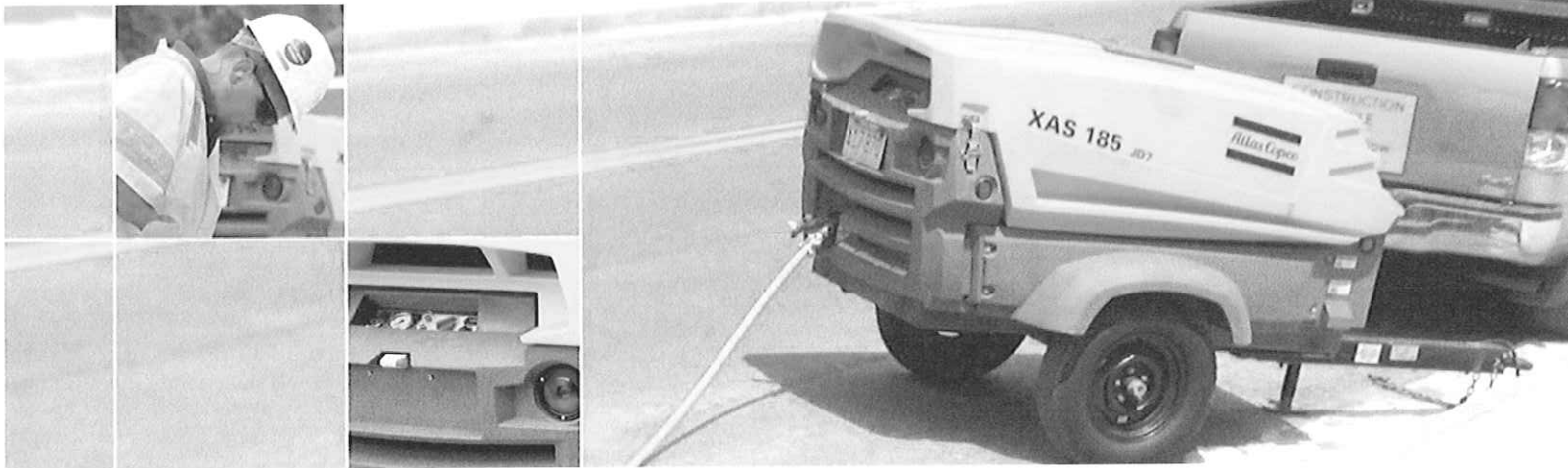
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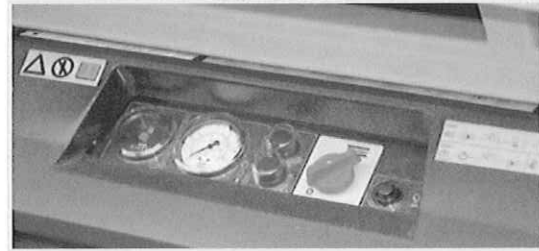
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Technical Specifications

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Atlas Copco Portable Air Compressor

XAS 185 JD7

Parts list

1310 3011 74 Ed. 0 2007-02

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Any unauthorized use or copying of the contents or any part of this book is
prohibited. This applies in particular to trademarks, model denominations, part
numbers and drawings.”**

No. 1310 3011 74 Ed. 0
2007-02

Atlas Copco

OWNERSHIP DATA

Unit model: _____ Owner's machine no.: _____

Electric motor type: _____ Unit service no.: _____

Delivery date: _____ Motor serial no.: _____

Service plan: _____ First start-up date: _____

Selected Lubricants

Compressor: _____ Capacity: _____

Bearing grease type, electric motor: _____

Printed Matter Nos.

Atlas Copco instruction book: _____ Atlas Copco logbook: _____

Atlas Copco parts list: _____ Motor parts list: _____

Local Atlas Copco Representative

Name: _____

Address: _____

Telephone: _____ Contact persons: _____ Service: _____

Telefax: _____ Parts: _____

Example parts list

<u>Ref.</u>	<u>Part number</u>	<u>Qty</u>	<u>Name</u>	<u>Remarks</u>
1	1310 0332 64	158	Screw - Round Head	
2	1310 0326 91	2	Hinge	
3	1310 0326 79	2	Fender	

Explanation of columns:

Ref. - Reference number. Relates a part in list and drawing. "x" means that the part is not shown on the drawing. "-" indicates the beginning of a new list item.

Part number. "---" directs to consult another list of which the heading mostly has the same designation. "****" means that the part is not available as spare part. Parts followed by one dot are comprised in the assembly(ies) listed above the first dot.

Qty - A number indicating the quantity of parts. The quantity is only related to its corresponding reference number ("Ref") and may differ from the total quantity of this part for the entire unit. For parts of an assembly the quantity mentioned is for one assembly. "AR" means "as required" : bulk material or quantity to be determined.

Name - Mostly part names. When machine types, Classification Societies, dimensions, etc. are mentioned under the same "Designation", look carefully for the part number for your specific equipment. When a selection is to be made, the various selections are indented and preceded by a dash.

Remarks - A number followed by a bracket, e.g. 1), refers to a footnote.

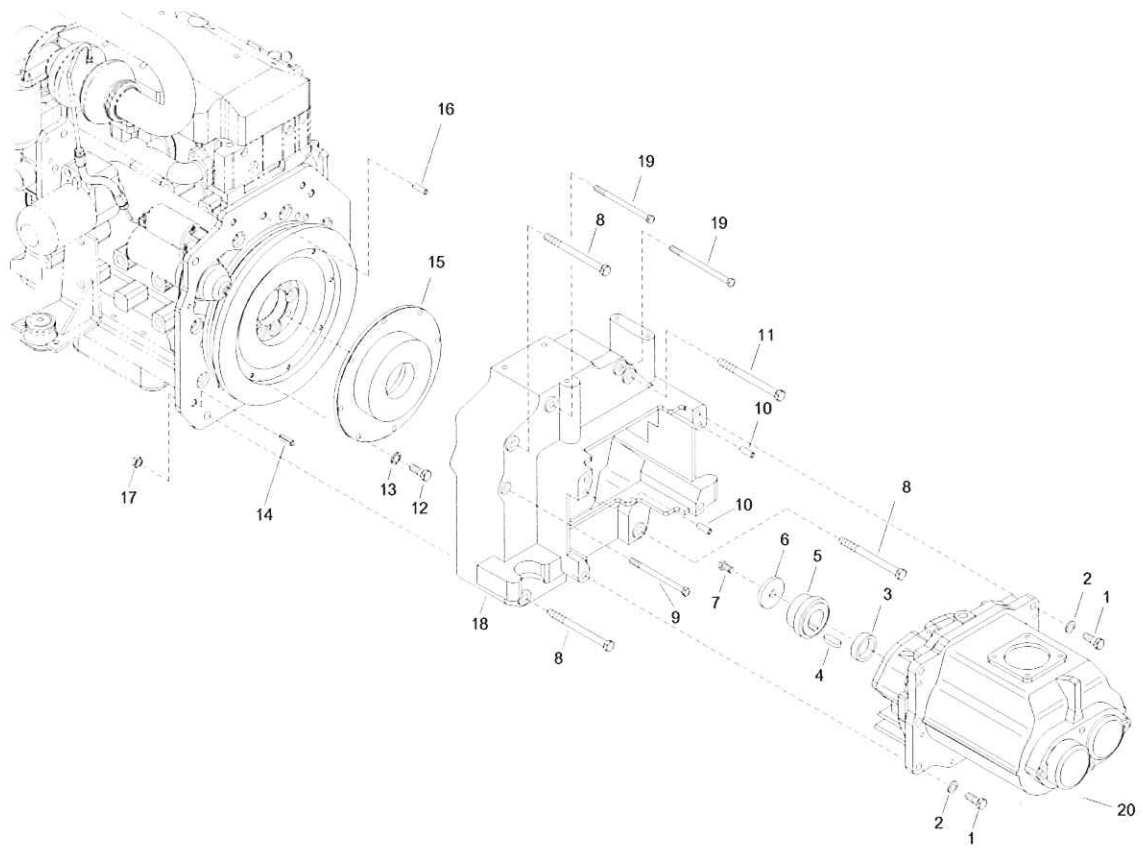
A number in bold, e.g. 1, refers to a "Service Kit". For the "Service Kit" number, see below list. Parts of one "Service Kit" may be spread over several pages.

ORDERING PARTS

Always quote the part number, "Designation" and quantity of the desired parts as well as type designation and serial number of the unit.

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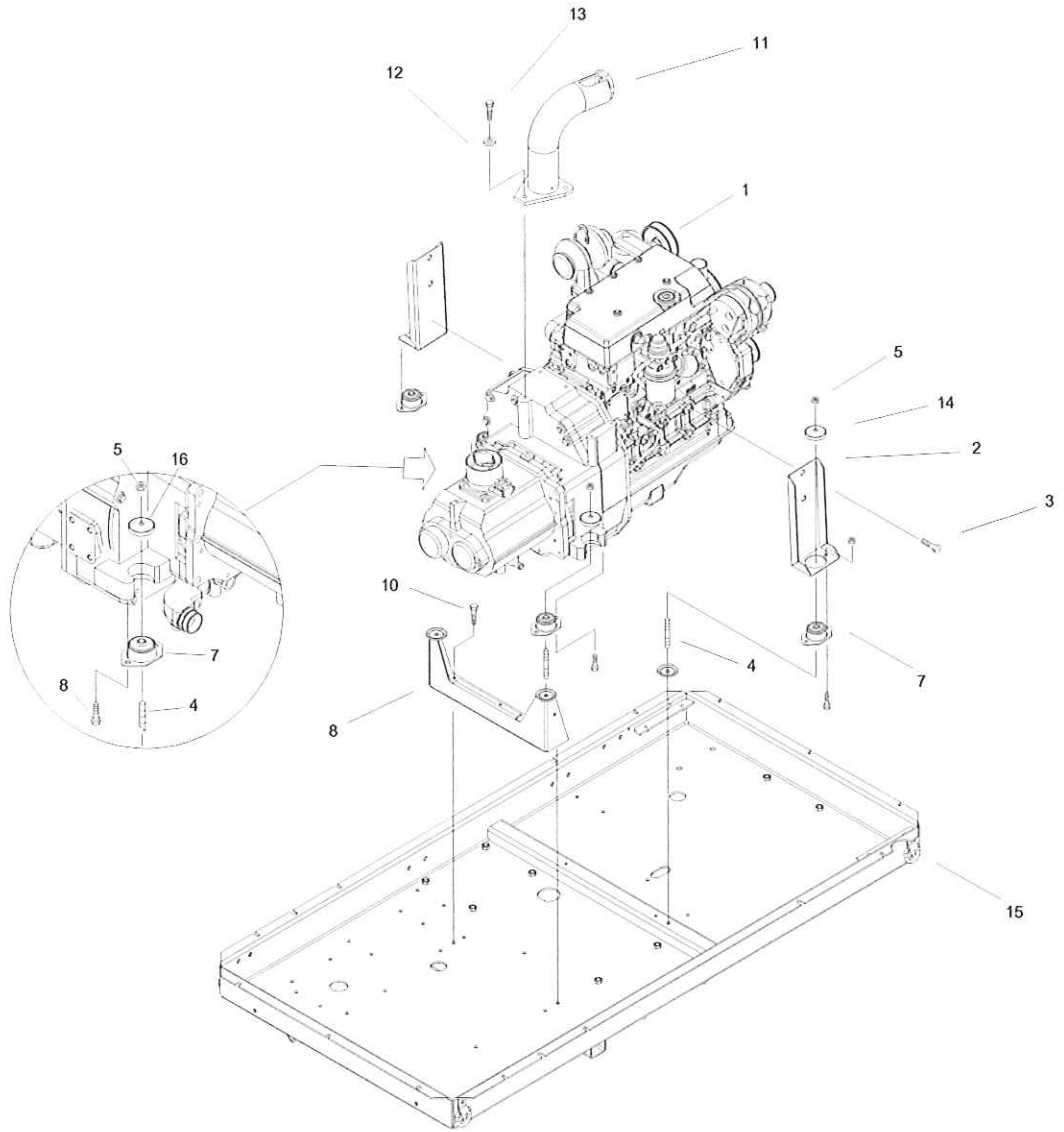
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1. Compressor Drive Group

Ref	Part number	Qty	Name	Remarks
1	0211 1404 00	4	Cap screw	
2	0300 0274 92	4	Washer	
3	1604 0745 00	1	Bushing	
4	0337 5196 00	1	Parallel key	
5	1604 0774 00	1	Coupling (male)	
6	1615 5441 00	1	Washer	
7	0147 1962 71	1	Hex head screw	
8	1310 0301 39	3	Bolt m14 x 160	
9	0147 1382 03	1	Bolt m10 x 140	
10	0108 1392 00	2	Spring pin	
11	0147 1457 03	1	Bolt m14 x 140	
12	SCRO 0918	6	Cap screw .312" x 1.0l	
13	0333 3227 00	6	Lockwasher	
14	0108 3417 00	2	Spring pin	
15	1604 0761 00	1	Coupling (female)	
16	0102 0460 00	1	Parallel pin	
17	0291 1113 00	3	Locknut	
18	1615 9398 01	1	Housing	
19	0147 1420 03	2	Bolt m12 x 140	
20	1616 7194 90	1	Element O.I.S. K-38	

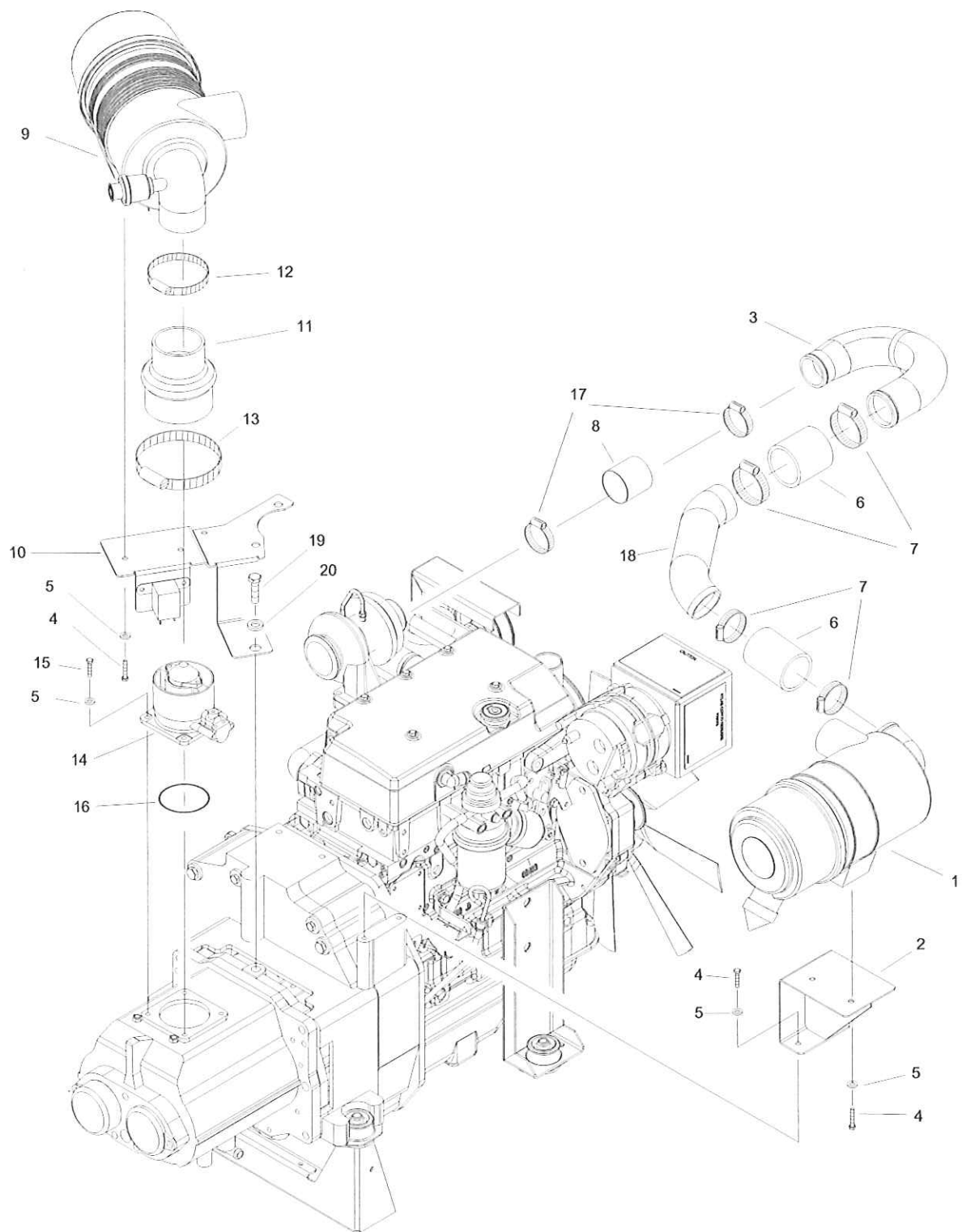
1310 9045 00 Rev. 00



2. Frame and Mounts

Ref	Part number	Qty	Name	Remarks
1	1310 0304 11	1	Engine - Diesel	
2	1310 4254 00	2	Mount - Engine	
3	0147 1476 03	4	Screw - M16 x 35	
4	1310 0302 95	4	Stud	
5	0291 1111 00	4	Locknut - M10	
6	1202 8719 00	2	Disk	
7	1202 9006 02	4	Vibration mount	
8	0147 1360 03	8	Screw - M10 x 20	
9	1310 4252 00	1	Support	
10	1619 2766 00	4	Screw	
11	1604 4099 31	1	Lifting Hook	
12	0301 2358 00	3	Washer	
13	0147 1402 15	3	Screw	
14	1604 4220 00	4	Limiting Disc	
15	1310 4102 00	1	Frame	

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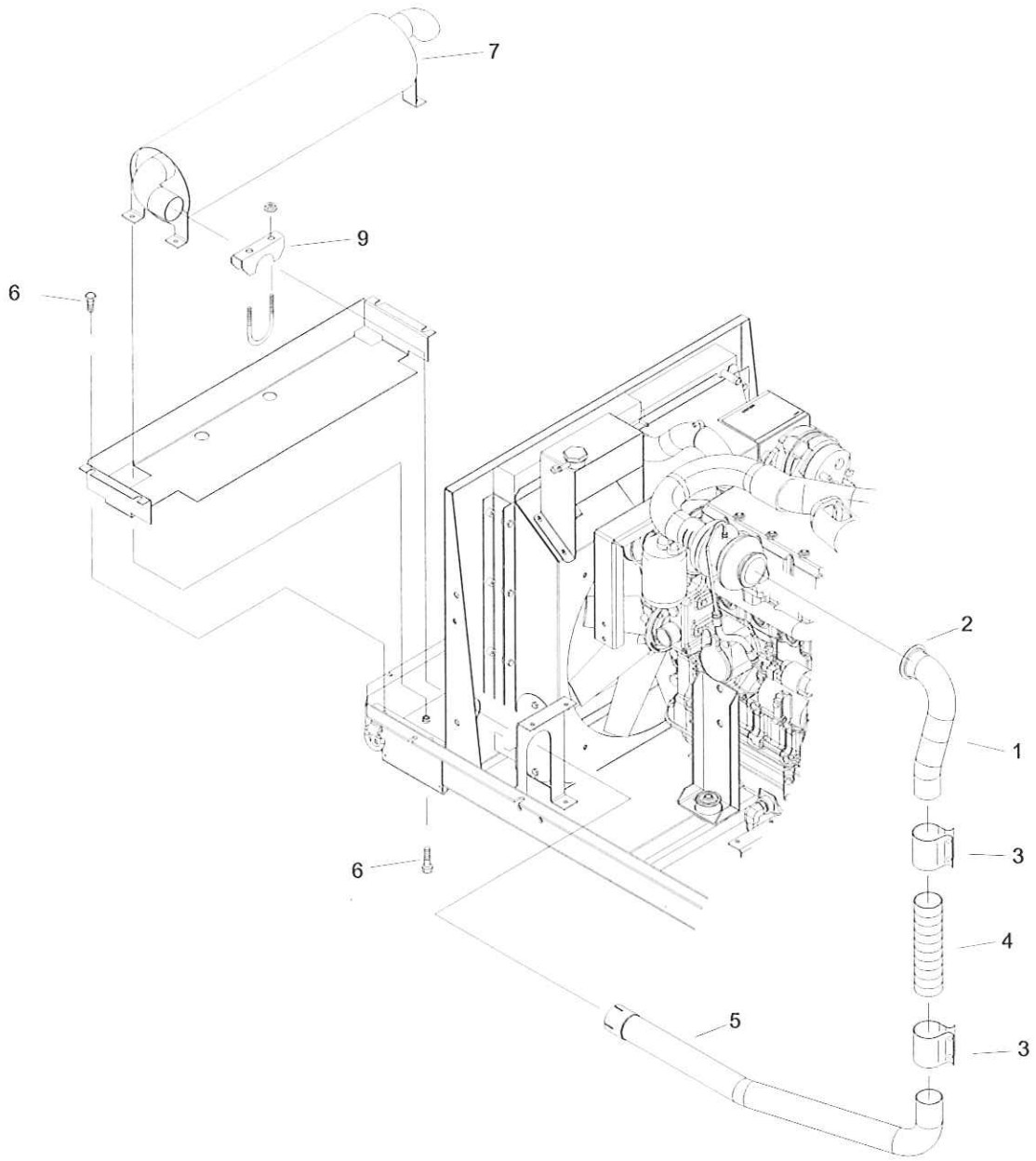


3. Air Intake

Ref	Part number	Qty	Name	Remarks
1	1310 0301 58	1	Air Cleaner -Engine	1), 2)
2	1310 4152 00	1	Support	
3	1310 0301 66	1	Duct	
4	0147 1323 03	6	Screw	
5	0301 2335 00	6	Washer	
6	1310 0345 21	2	Hose	
7	1310 0323 83	4	Clamp	
8	1310 0301 55	1	Hose	
9	1310 0301 59	1	Air Cleaner - Compressor	3), 4)
10	1310 4153 00	1	Support	
11	1310 0341 73	1	Hump Hose	
12	0347 6131 00	3	Clamp M77	
13	0347 6119 00	1	Clamp M110	
14	1615 7667 82	1	Unloading Valve	
15	0211 1325 00	14	Screw	
16	0663 2106 16	1	O-Ring	
17	0347 6113 00	2	Hose Clamp	
18	1310 4256 00	1	Pipe Air Inlet	
19	0147 1475 03	1	Screw	
20	0301 2378 00	1	Washer	

- 1) 1310030160 Element-Engine Air Filter
- 2) 1310030310 Element-Engine Safety Cartridge (optional)
- 3) 1310033926 Element-Compressor Air Filter
- 4) 1310030309 Element-Compressor Safety Cartridge (optional)

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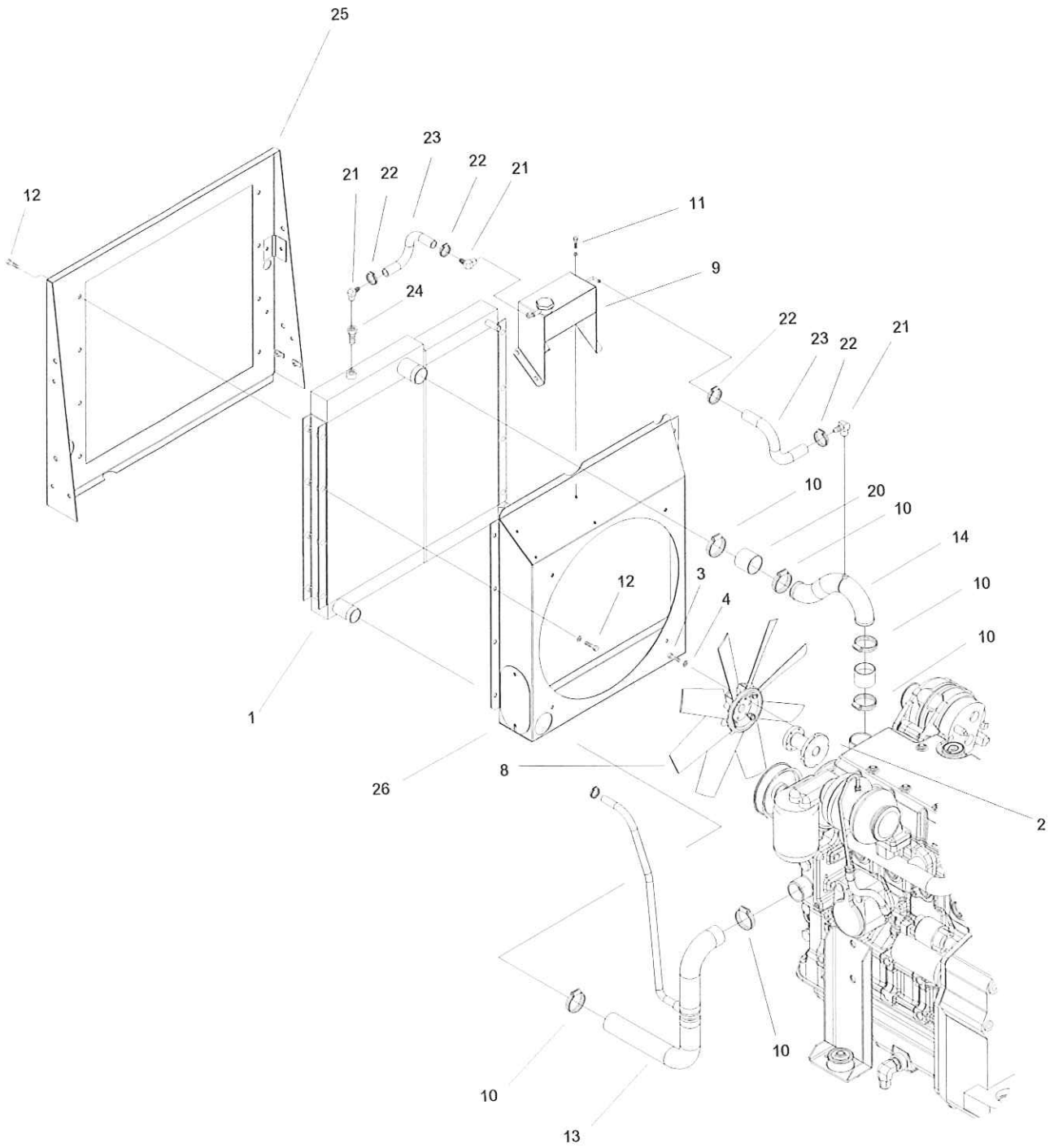


4.

4. Exhaust System

Ref	Part number	Qty	Name	Remarks
1	1310 4150 00	1	Exhaust Pipe	
2	1310 0301 62	1	Clamp - "V" Band	
3	1310 0345 55	2	Clamp - Exhaust "2.25"	
4	1310 0339 54	1	Hose - Flex Metal	
5	1310 4151 00	1	Exhaust Pipe	
6	1615 5664 00	8	Screw	
7	1310 4264 00	1	Muffler - Exhaust	
8	1310 1477 00	1	Clamp - Exhaust "2.25"	
9	1310 4163 00	1	Heat Shield	

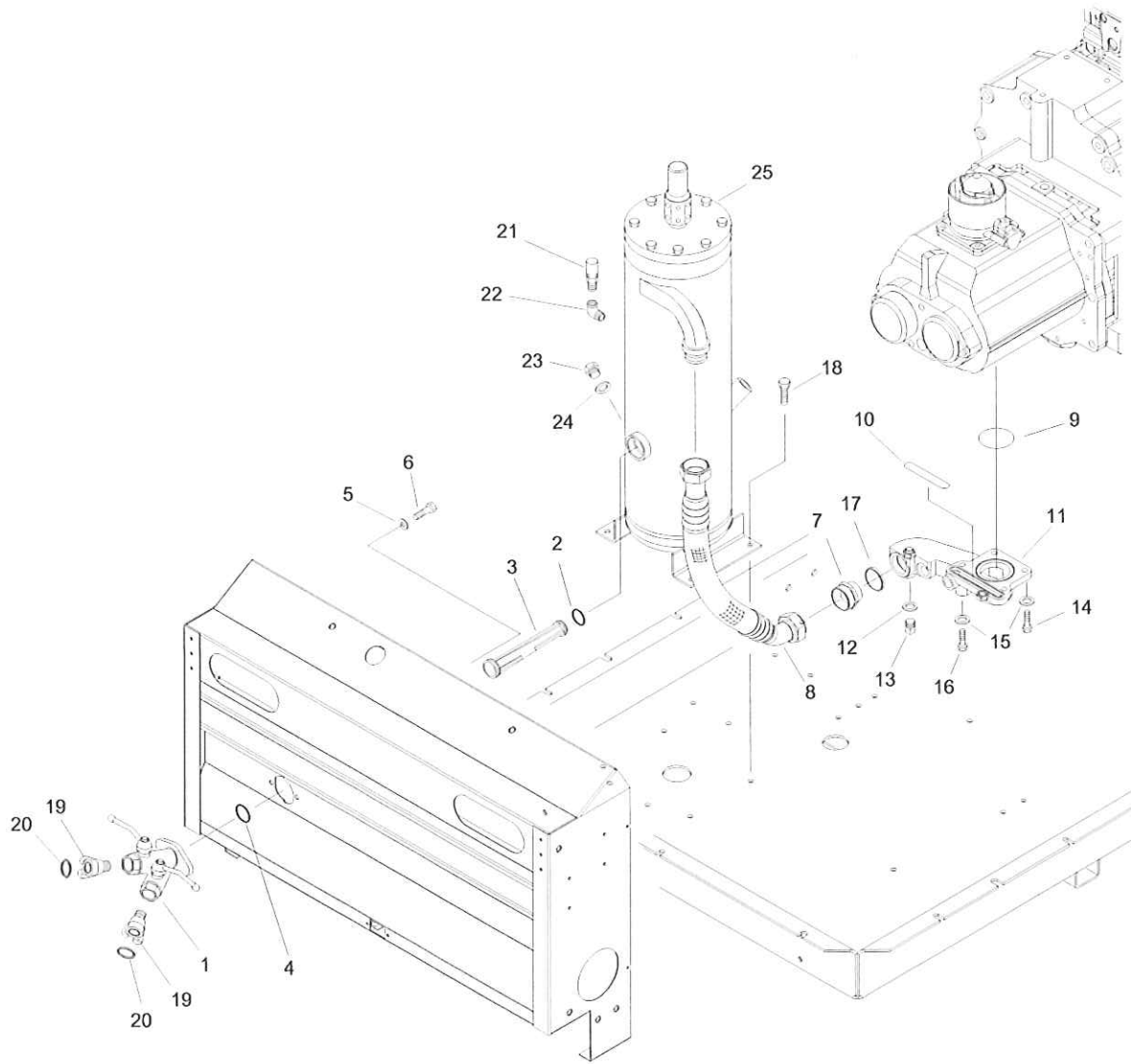
1310 9045 03 Rev. 00



5. Cooling System

Ref	Part number	Qty	Name	Remarks
1	1310 4237 00	1	Radiator/Oil Cooler	
2	1310 4239 01	1	Fan Spacer	
3	0211 1251 00	6	Screw	
4	0301 2321 00	6	Washer	
5	1310 0342 83	1	Fan Guard	
6	1615 7690 00	1	Ring Clamp	
7	1615 5664 00	4	Screw	
8	1310 0342 81	1	Fan	
9	1310 4249 00	1	Top Tank	
10	0347 6113 00	6	Hose Clamp	
11	0147 1247 03	4	Screw	
12	1619 2766 00	16	Screw	
13	1310 4261 00	1	Lower Radiator Hose Assembly	
14	1310 4281 00	1	Upper Radiator Pipe	
15	1615 5664 00	4	Screw	
16	0147 1363 03	4	Screw	
17	0301 2344 00	4	Washer	
18	1310 0342 89	1	Hose Clamp	
19	1310 0352 02	2	Hose Clamp	
20	1310 4270 00	2	Hose Sleeve	
21	1310 0304 17	3	Elbow	
22	1310 0323 84	4	Hose Clamp	
23	1310 0311 97	AR	Hose	
24	1310 0304 19	1	Adapter	
25	1310 4234 00	1	Panel	
26	1310 4235 00	1	Fan Box	

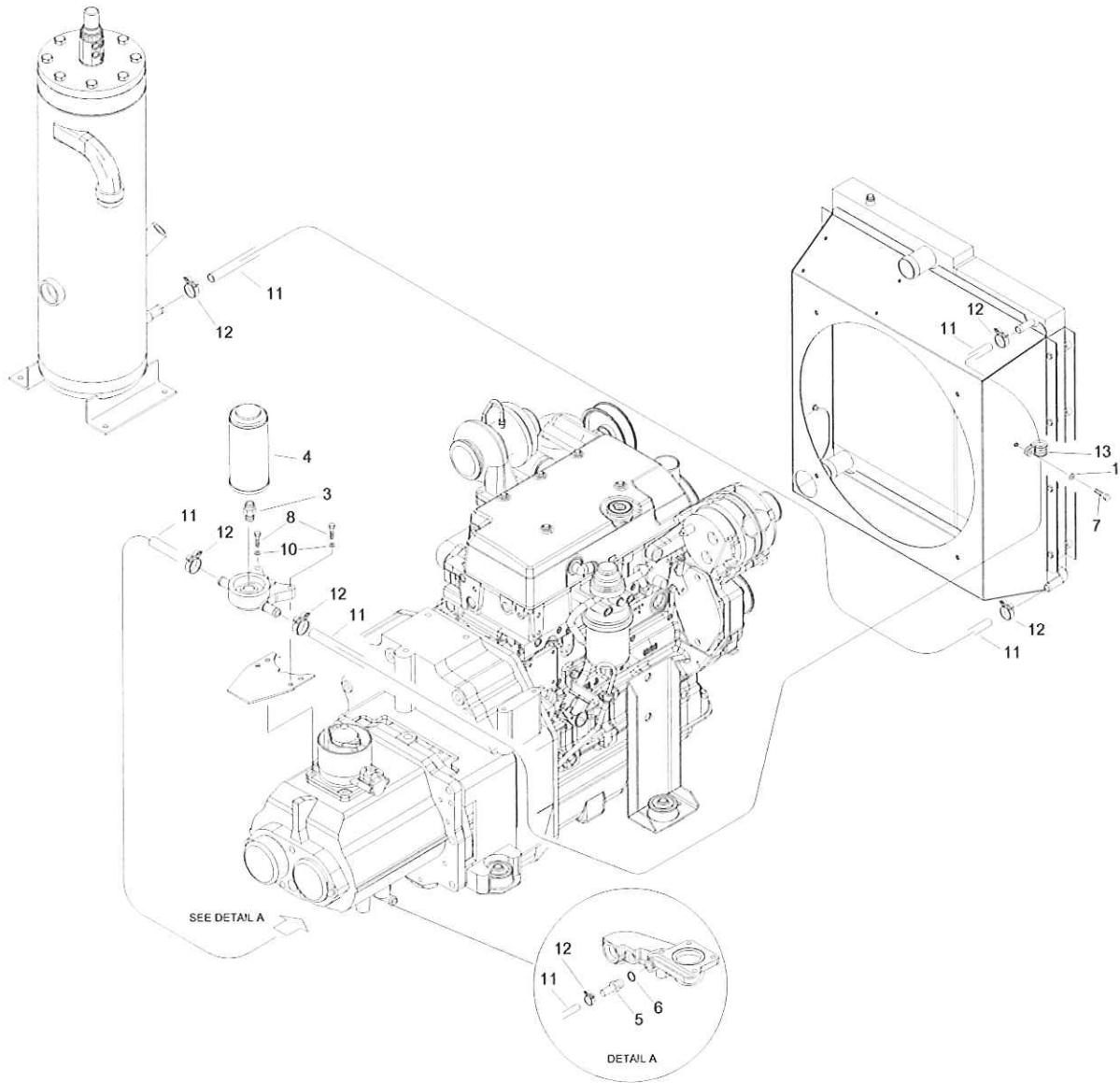
1310 9045 04Rev. 00



6. Air Outlet

Ref	Part number	Qty	Name	Remarks
1	1604 9951 80	1	Twin Ball Valve	
2	0663 3131 00	1	O-Ring	
3	1604 7943 01	1	Restrictor	
4	0663 3130 00	1	O-Ring	
5	0333 3227 00	2	Lockwasher	
6	0147 1323 03	2	Hexagon Bolt	
7	0571 0035 74	1	Nipple	
8	1310 4242 00	1	Hose	
9	0663 7137 00	1	O-Ring	
10	0663 7141 00	1	O-Ring	
11	1604 3980 81	1	Outlet Manifold	
12	0653 1062 00	1	Flat Gasket	
13	0686 3716 01	1	Plug	
14	0211 1364 00	3	Bolt M10	
15	0301 2344 00	4	Washer	
16	0211 1373 00	1	Bolt M10	
17	9125 6295 00	1	Gasket	
18	1619 2766 00	4	Screw	
19	1310 1365 00	2	Claw Coupling	
20	9747 6020 00	2	Rubber Gasket	
21	1310 0302 65	1	Valve-safety	
22	9710 5691 00	1	Elbow-pipe	
23	1615 5080 00	1	Plug	
24	0661 1000 29	1	Washer-seal	
25	1310 0301 92	1	Seperator Assembly	

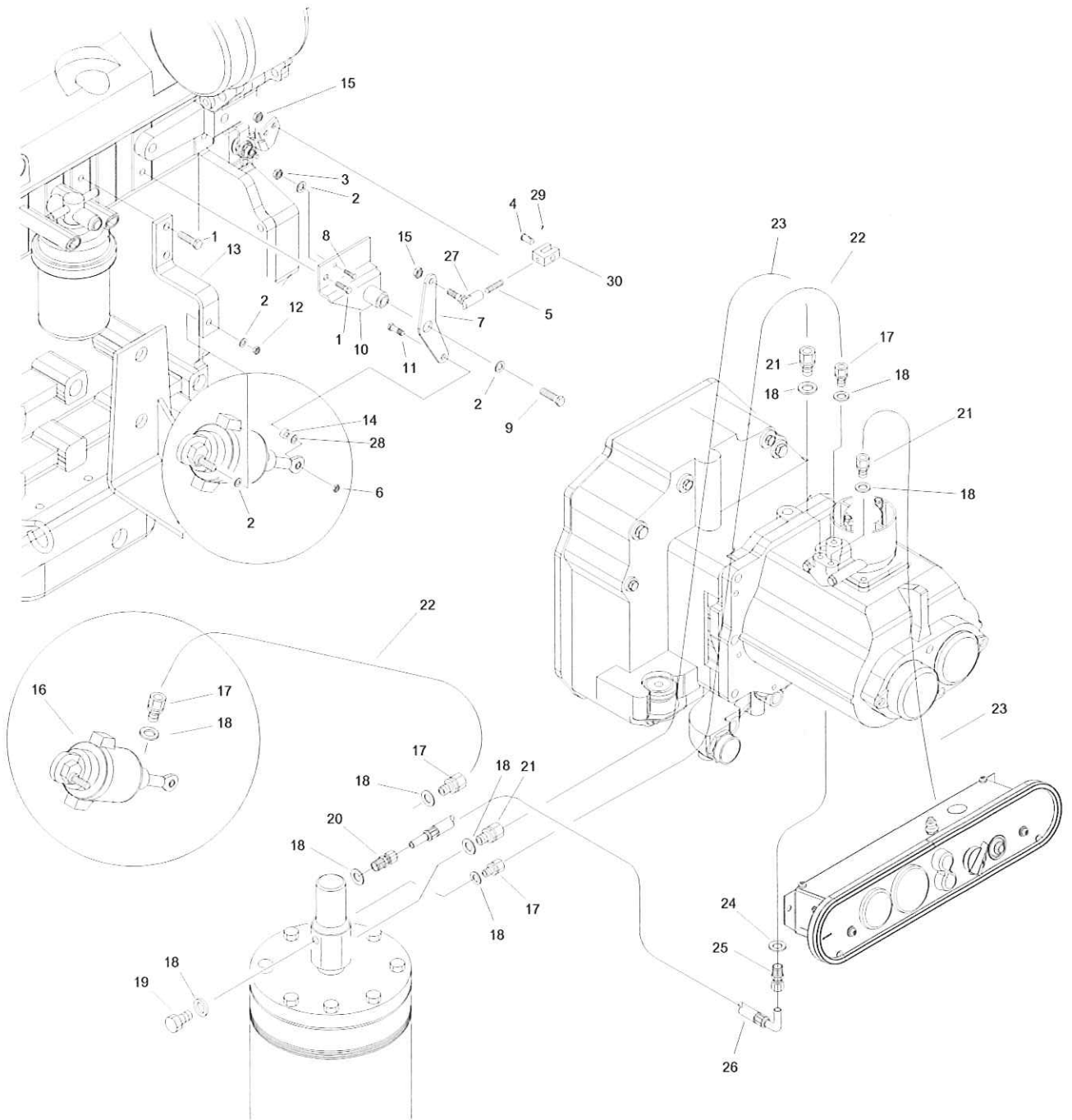
1310 9045 05 Rev. 00



7. Oil System

Ref	Part number	Qty	Name	Remarks
1	0300 8019 00	2	Washer-flat	
2	1615 7767 02	1	Housing-oil filter	
3	1619 3770 00	1	Nipple-hex	
4	1613 6105 90	1	Filter-oil	
5	1202 8660 00	1	Nipple	
6	0661 1000 27	1	Seal washer	
7	0147 1323 03	3	Screw	
8	0147 1329 03	2	Screw	
9	1310 4167 00	1	Bracket	
10	0301 2335 00	4	Washer-flat	
11	0072 8403 16	5m	Hose	
12	1202 8663 01	6	Clamp-hose	
13	1310 0342 89	2	Clamp-hose	
14	0346 1012 44	1	Clamp	

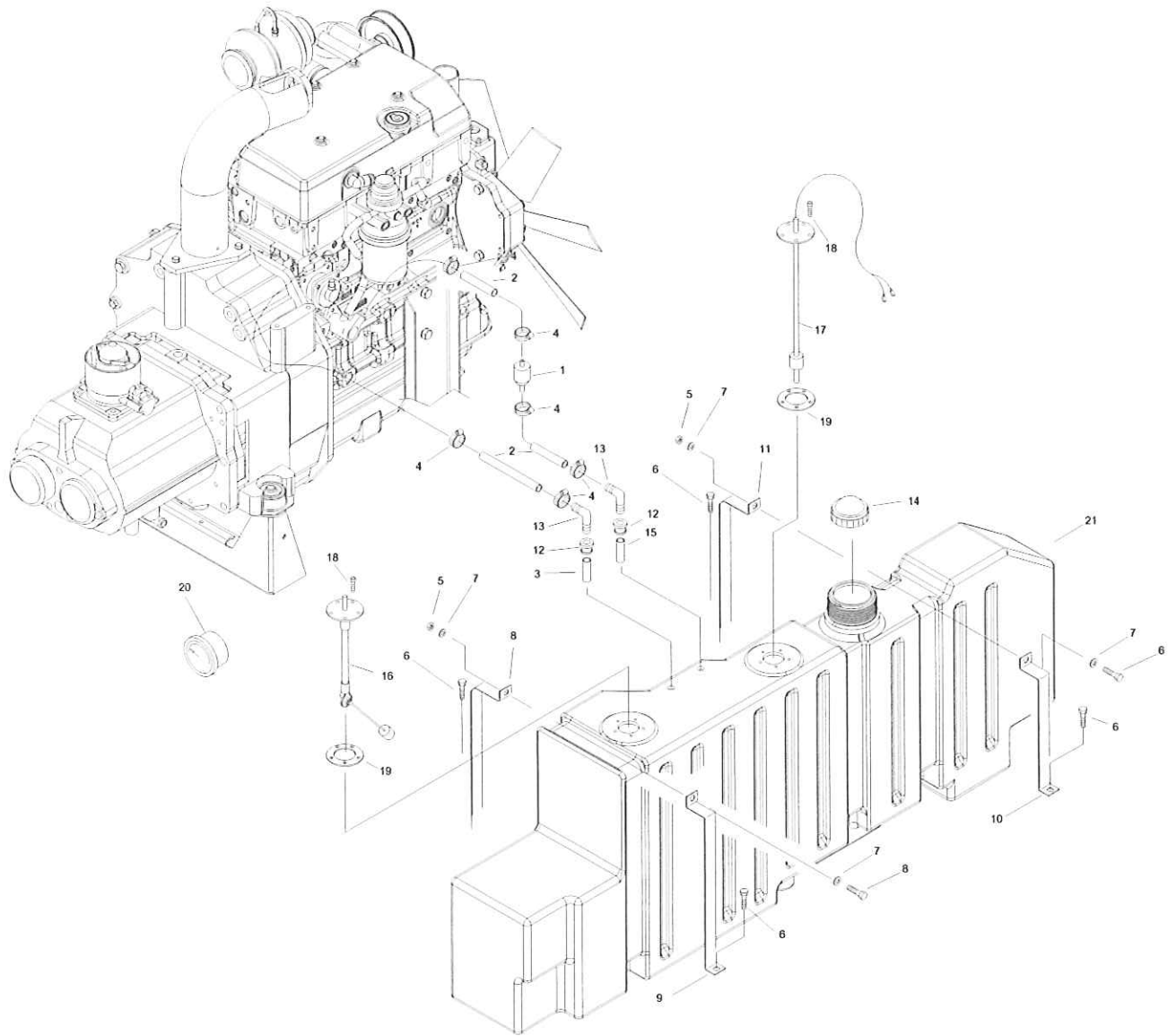
1310 9045 06 Rev. 00



8. Regulating System

Ref	Part number	Qty	Name	Remarks
1	0147 1322 03	3	Screw	
2	0301 2335 00	4	Washer	
3	0291 1110 00	1	Nut	
4	1310 0369 57	1	Clevis	
5	1310 0316 53	1	Threaded Rod	
6	0291 1108 00	1	Nut	
7	1310 0302 45	1	Lever Arm	
8	9710 5906 00	1	Screw-Self Tapping	
9	0147 1329 09	1	Screw	
10	1310 0302 46	1	Bracket	
11	0147 1250 03	1	Screw	
12	0291 1110 00	1	Nut	
13	1310 0301 61	1	Bracket	
14	0324 1130 00	1	Spacer	
15	NUT 00846	2	Nut	
16	1604 0321 80	1	Piston	
17	0581 0000 38	4	Coupling	
18	1310 0345 79	9	Gasket-flat	
19	0686 4201 03	1	Plug	
20	0581 0000 47	1	Coupling	
21	0581 0000 33	3	Coupling	
22	0070 6002 05	4m	Tube	
23	0070 6002 04	4m	Tube	
24	0661 1020 00	1	Gasket	
25	0581 0000 52	1	Coupling	
26	1310 0304 13	1	Hose Assembly	
27	1310 0316 52	1	Ball Socket, w/ Disconnect	
28	0301 2321 00	1	Washer-Flat	
29	1310 0369 56	1	Cotter Pin	
30	1310 0353 91	1	Clevis Pin	

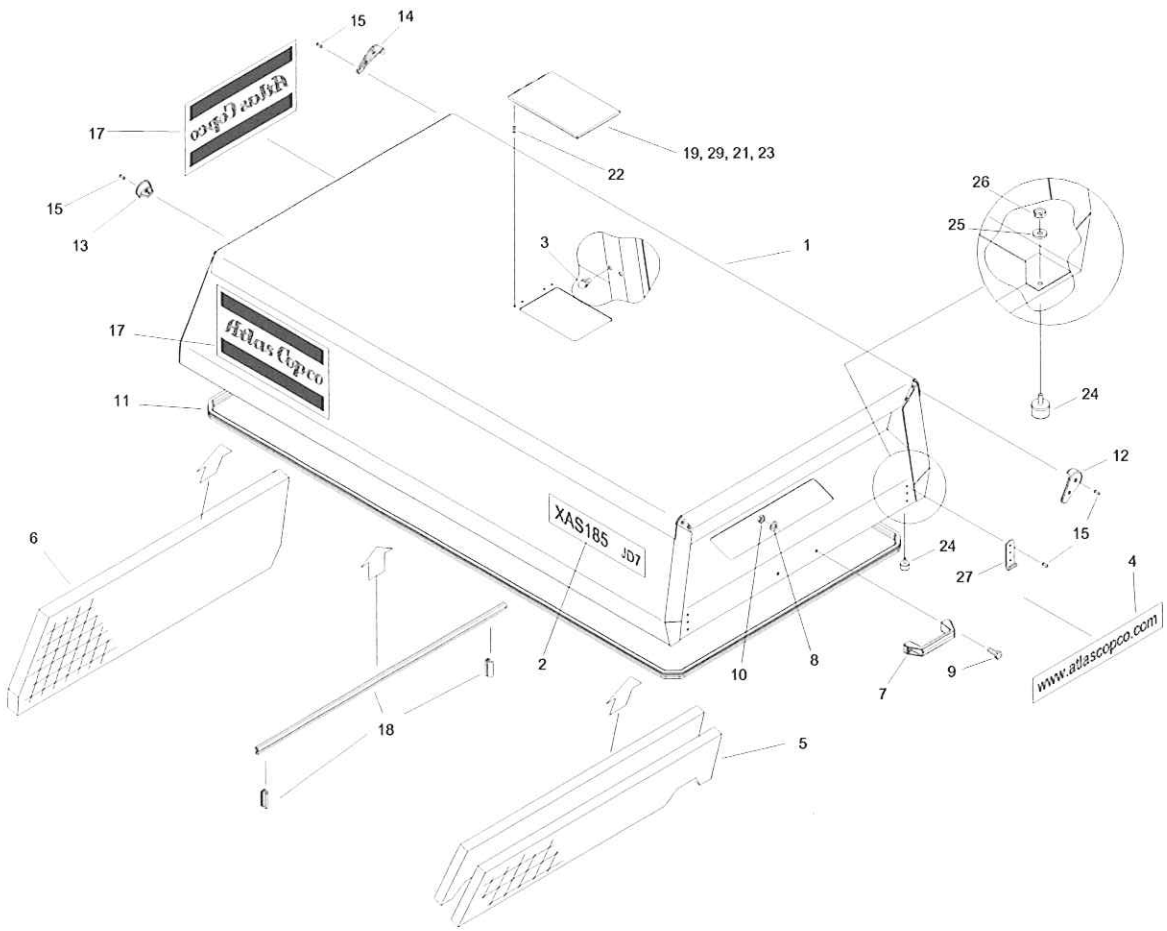
1310 9044 57 Rev. 00



9. Fuel System

Ref	Part number	Qty	Name	Remarks
1	1310 0315 80	1	Filter	
2	1310 0311 98	2Ft	Hose	
3	1310 0302 29	2Ft	Tube	
4	1310 0323 84	6	Clamp-hose	
5	0291 1110 00	2	Locknut	
6	0147 1323 03	6	Screw	
7	0301 2335 00	4	Washer-flat	
8	1310 4276 00	1	Strap	
9	1310 4277 00	1	Strap	
10	1310 4275 00	1	Strap	
11	1310 4278 00	1	Strap	
12	1310 0349 92	2	Grommet	
13	1310 0349 94	2	Elbow - Hose	
14	1310 0343 63	1	Cap	
15	1310 4259 00	1	Tube	
16	1310 4257 00	1	Sender - Fuel Level	
17	1310 4258 00	1	Switch - Low Liquid Level	
18	1310 0343 88	10	Screw - 10-24 x 0.5 Lg.	
19	1310 0327 02	2	Gasket	
20	1310 0317 97	1	Gauge - Fuel level	
21	1310 4149 00	1	Fueltank	

1310 9045 08 Rev. 00



10. Hood Assembly

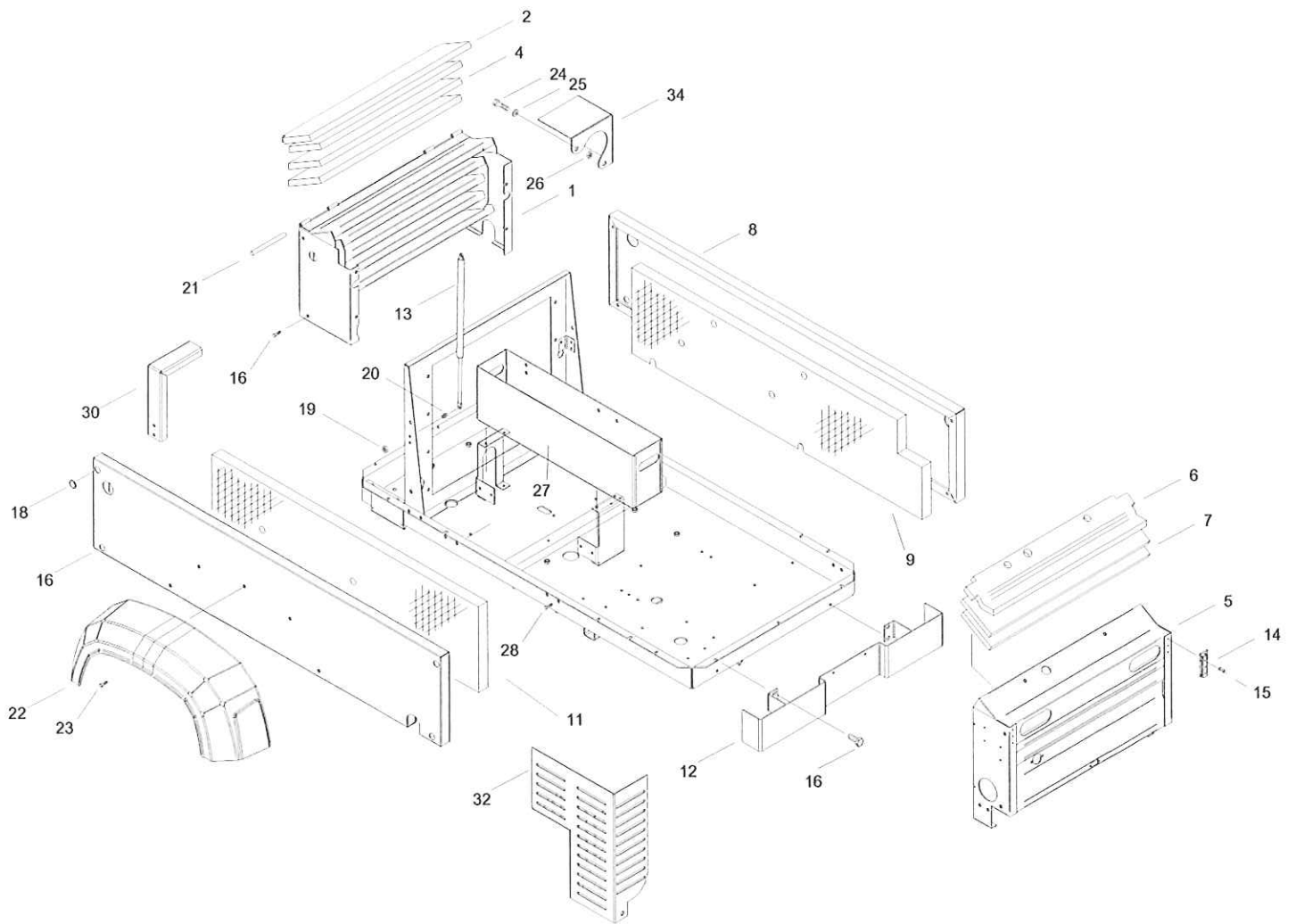
Ref	Note	Part number	Qty	Name	Remarks
1	1	1310 4114 21	1	Hood Assembly	
2		1310 4240 00	2	Label	
3		1310 0327 78	2	Ball Stud	
4		1310 0357 17	1	Label	
5		1310 4124 00	2	Foam Insulation	
6		1310 4122 00	1	Foam Insualtion	
7		1202 8673 00	1	Handle	
8		0333 2121 00	2	Washer	
9		0147 1246 03	2	Screw	
10		0266 2108 00	2	Nut	
11		1604 4317 00	AR	Seal	
12		1604 4056 00	2	Protector	
13		1604 4062 00	1	Protector	
14		1604 4057 00	1	Protector	
15		1310 0327 87	12	Rivet	
16		0690 1132 00	2	Label	
17		0690 1140 00	1	Label	
18		1619 2665 00	AR	Seal	
19	1	1310 4125 80	1	Access Door Assembly	
20	*	1310 4125 00	1	Door	
21	*	1613 6650 01	1	Lock	
22	*	0129 3172 01	4	Rivet	
23	*	1604 4317 00	1	Seal	
24		16041869 00	2	Bumper	
25		0333 2121 00	2	Washer	
26		0266 2108 00	2	Nut	
27		1604 6733 00	2	Catch	

1310 9054 16 Rev. 00

1) Standard color is yellow^o

^o For availability of other colors consult an Atlas Copco sales representative.

* Contained in the assembly.



11. Body Work Steel Units

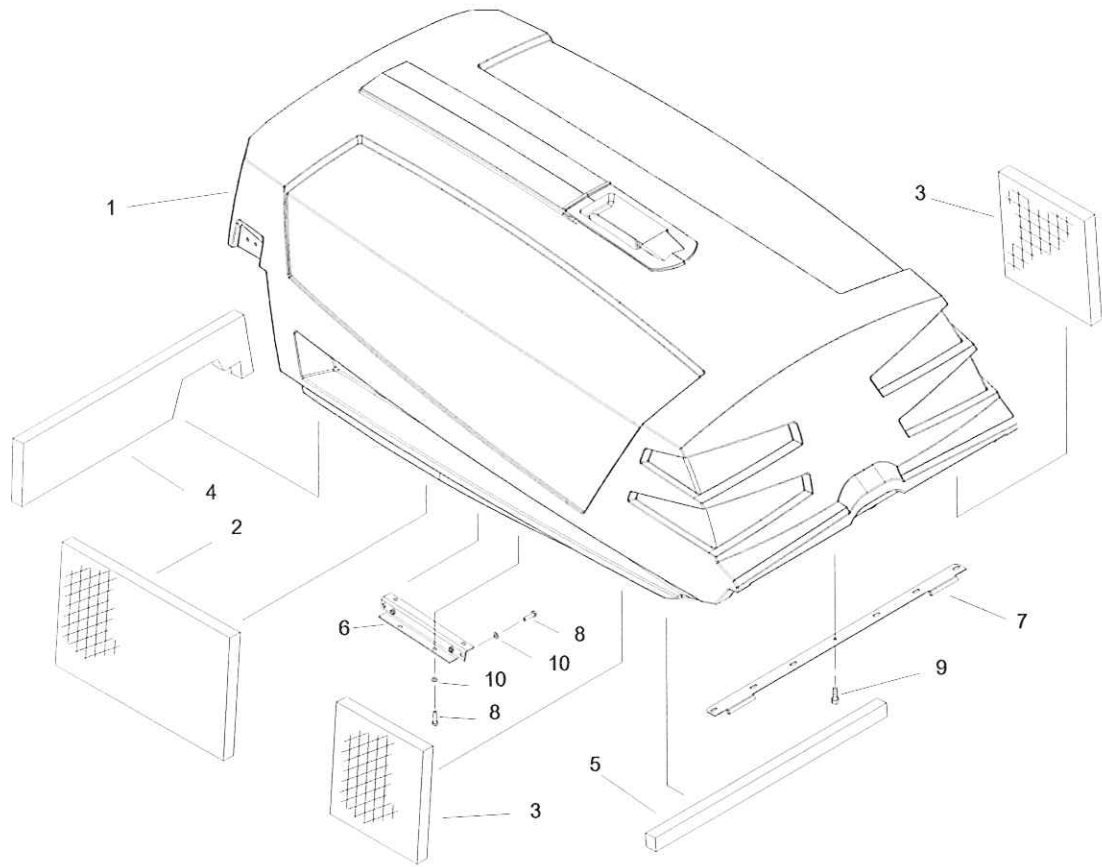
Ref	Part number	Qty	Name	Remarks
-	1310 4103 29	1	Front Baffle Assembly	1
1	1310 4103 00	1	Baffle	*
2	1310 4104 00	1	Foam Insulation	*
3	1604 3423 00	2	Screw	*
4	1310 4108 00	3	Foam Insulation	*
-	1310 4109 29	1	Rear Baffle Assembly	1
5	1310 4109 00	1	Rear Baffle	*
6	1310 4110 00	1	Foam Insulation	*
7	1310 4144 00	2	Foam Insulation	*
-	1310 4112 29	1	Side Panel Assembly	1
8	1310 4112 00	1	Panel	*
9	1310 4113 00	1	Foam Insulation	*
-	1310 4126 29	1	Side Panel Assembly	1
10	1310 4126 00	1	Side Panel	*
11	1310 4127 00	1	Foam Insulation	*
12	1310 4243 00	1	Bumper	
13	1310 4262 00	2	Gas Strut	
14	1604 6686 00	2	Latch	
15	1310 0327 87	6	Rivet	
16	1615 5664 00	28	Screw	
17	1619 2766 00	8	Screw	
18	1604 3858 00	8	Plug	
19	0292 1305 00	2	Locknut	
20	1310 0327 78	2	Ball Stud	
21	1605 0025 00	2	Hinge Pin	
22	1310 4148 00	2	Fender	
23	1619 2766 00	10	Screw	
24	01471329 03	2	Screw	
25	02911110 00	2	Nut	
26	03012335 00	2	Washer	
27	1310 4253 00	1	Toolbox	
28	1615 5664 00	8	Screw	
29	1619 2665 00	4	Screw	
30	1310 0455 00	1	Guard	
31	1619 2766 00	2	Screw	
32	1310 4163 00	1	Heat Shield	
33	1619 2766 00	2	Screw	
34	1310 4268 00	1	Guard	

1310 9054 09 Rev. 00

1) Standard color is grey^o

^o For availability of other colors consult an Atlas Copco sales representative.

* Contained in the assembly.



12. Hood Assembly PE Version

Ref	Part number	Qty	Name	Remarks
1	1310 4222 00	1	Hood	*
2	1310 4161 00	1	Foam Insulation	*
3	1310 4162 00	1	Foam Insulation	*
4	1310 4160 00	1	Foam Insulation	*
5	1310 4168 00	1	Foam Insulation	*
6	1310 4159 00	2	Bracket	*
7	1310 4158 00	1	Hinge	*
8	01471246 03	12	Screw	*
9	1615 5664 00	7	Screw	*
10	0301 2321 00	12	Washer	*

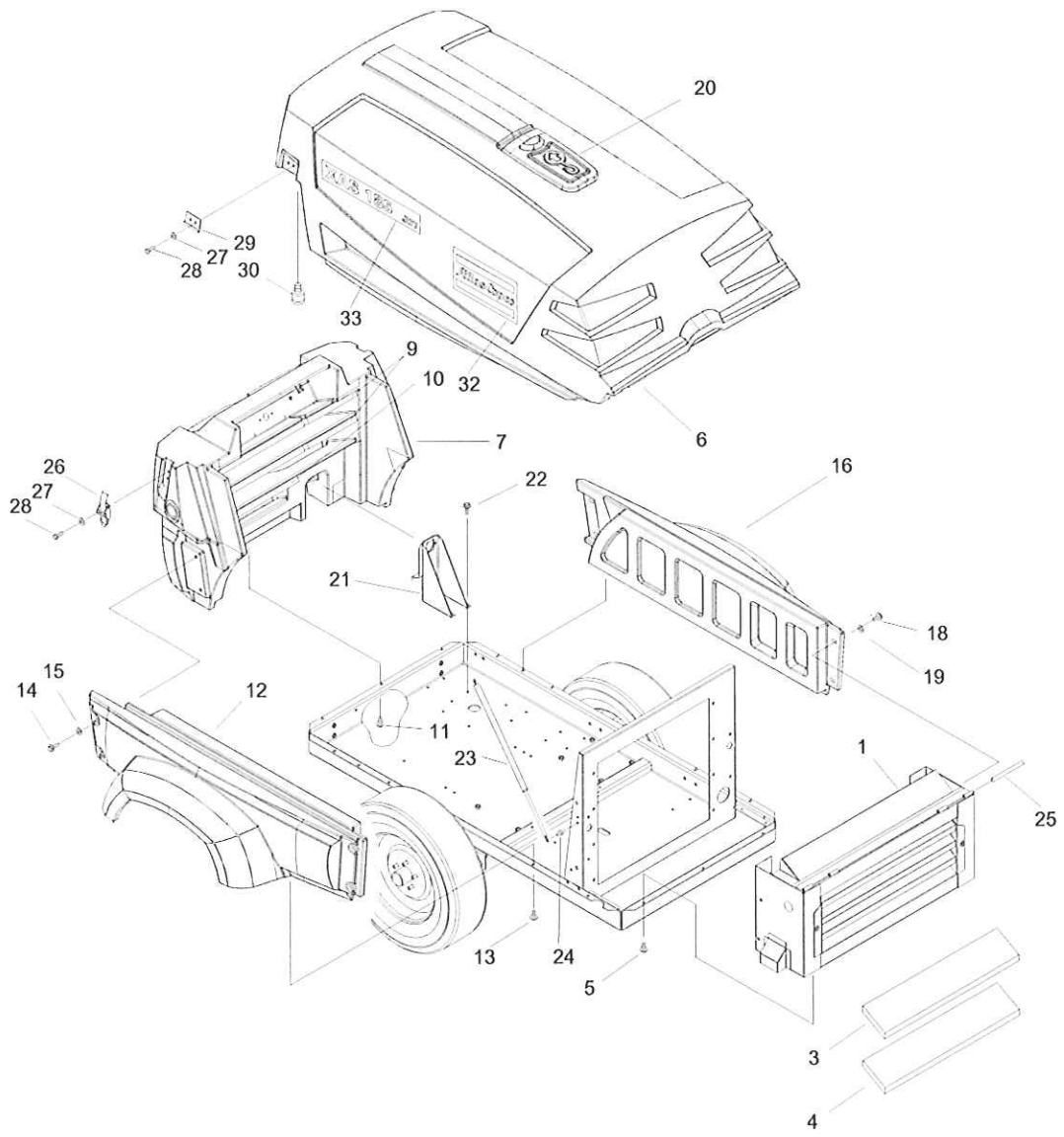
1310 9045 18 Rev. 00

1) Standard color is grey^o

2) Standard color is yellow^o

^o For availability of other colors consult an Atlas Copco sales representative.

* Contained in the assembly.



13. Body Work PE Units

Ref	Part number	Qty	Name	Remarks
1	1310 4157 29	1	Front Baffle Assembly	1
2	1310 4157 00	1	Baffle	*
3	1310 4104 00	1	Foam Insulation	*
4	1310 4108 00	2	Foam Insulation	*
5	1615 5664 00	9	Screw	
6	1310 4222 80	1	Hood Assembly	2
7	1310 4222 00	1	Hood	*
8	1310 4273 00	1	Foam Insulation	*
9	1310 4161 00	1	Foam Insulation	*
10	1310 4162 00	1	Foam Insulation	*
11	1310 4160 00	1	Foam Insulation	*
12	1310 4168 00	1	Foam Insulation	*
13	1310 4159 00	2	Bracket	*
14	1310 4158 00	1	Hinge	*
15	1619 2766 00	12	Screw	*
16	1615 5664 00	7	Screw	*
17	1310 4223 80	1	Rear Baffle Assembly	1
18	1310 4223 00	1	Rear Baffle	*
19	1310 4266 00	2	Foam Insulation	*
20	1310 4273 00	1	Foam Insulation	*
21	1615 5664 00	7	Screw	
21	1310 4224 00	1	Mudguard	1
22	1615 5664 00	2	Screw	
23	01471328 03	4	Screw	
24	0300 8019 00	4	Washer	
25	1310 4225 00	1	Mudguard	1
26	1615 5664 00	2	Screw	
27	0147 1328 03	4	Screw	
28	0300 8019 00	4	Washer	
29	1310 4226 00	1	Cover	1
30	1310 4147 00	1	Outlet Valve Bracket	
31	1619 2766 00	4	Screw	
32	1604 6457 00	2	Gas Strut	
33	1310 0327 78	4	Ball Stud	
34	1605 0025 00	2	Hinge Pin	
35	1604 6276 00	2	Latch	
36	03012321 00	8	Washer	
37	01471244 03	8	Screw	
38	1604 6275 00	2	Catch	
39	1604 1869 00	2	Bumper	
40	1310 0369 54	1	Label – Internet	
41	0690 1132 00	2	Label - Logo	
42	1310 4240 00	2	Label – Model Designation	

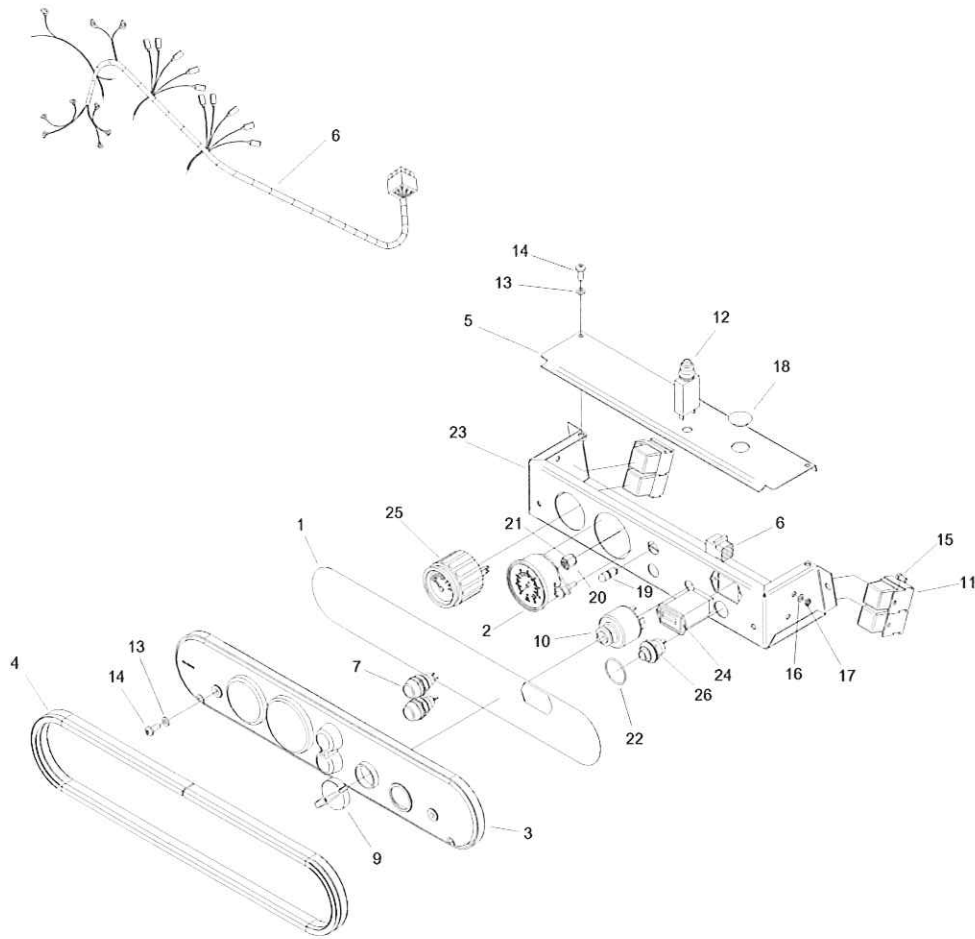
1310 9045 17 Rev. 00

1) Standard color is grey^o

2) Standard color is yellow^o

^o For availability of other colors consult an Atlas Copco sales representative.

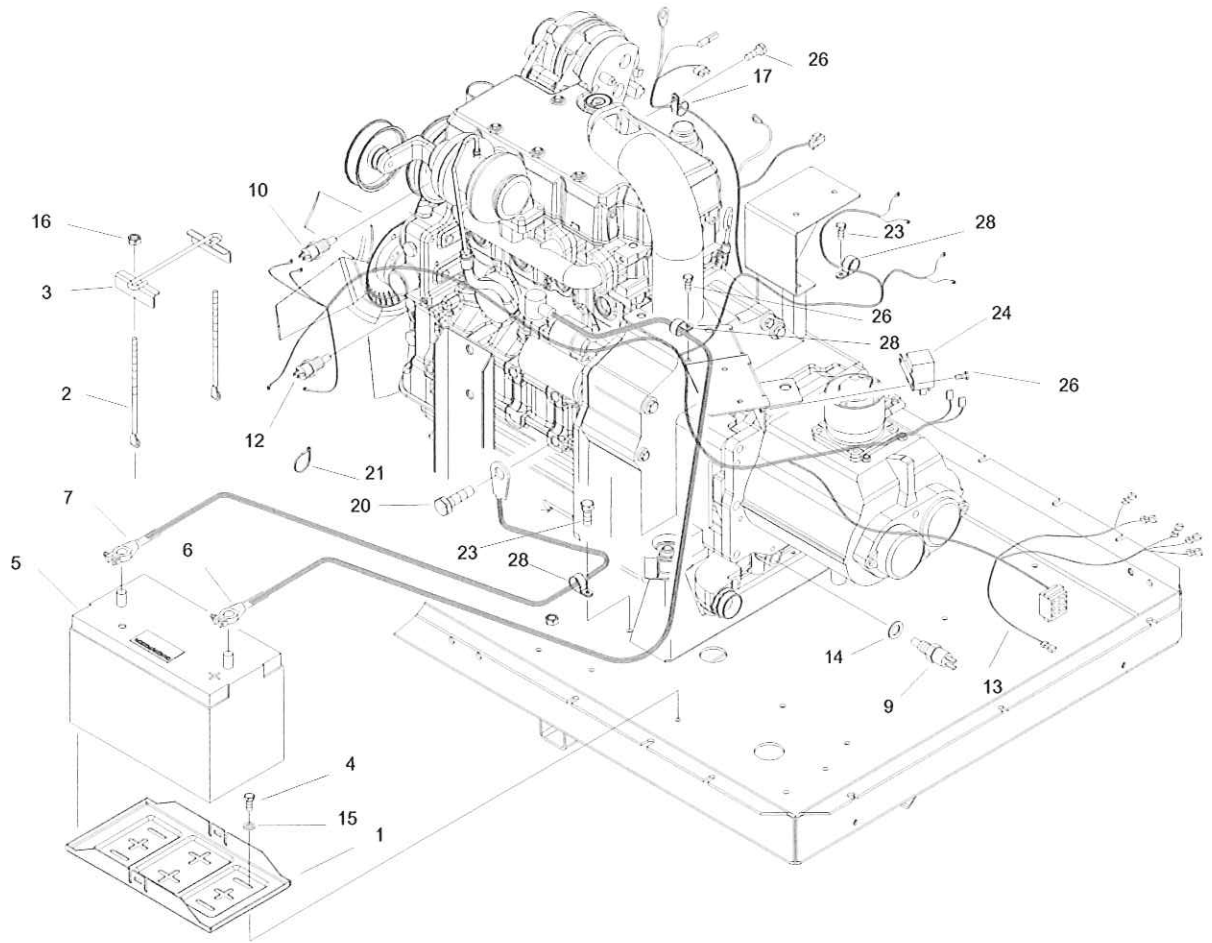
* Contained in the assembly.



14. Control Panel

Ref	Part number	Qty	Name	Remarks
-	1310 4263 80	1	Control Panel Assembly	
1	1310 4265 00	1	Label	
2	1604 4017 00	1	Pressure Gauge	
3	1604 4028 00	1	Cover	
4	1202 6584 00	1	Seal	
5	1604 4039 01	1	Cover	
6	1604 4068 00	1	Wire Harness	
7	1089 0312 11	2	Lampholder	
9	1089 0608 04	1	Button	
10	1089 0608 03	1	Switch	
11	1089 0341 01	4	Relay	
12	1089 9206 31	1	Circuit Breaker	
13	0301 2321 00	4	Washer	
14	0226 0305 42	4	Nut	
15	0147 1249 03	4	Bolt	
16	0301 2318 00	4	Washer	
17	0261 2107 00	4	Nut	
18	0686 9252 69	1	Plug	
19	1091 0168 00	2	Bulb	
20	0584 2310 01	1	Compression Nut	
21	0584 0080 09	1	Connector	
22	0663 9095 00	1	O-ring	
23	1310 4263 00	1	Control Panel bracket	
24	1089 9420 01	1	Hourmeter	
25	1310 0317 97	1	Fuel Gauge	
26	1089 9326 01	1	Pushbutton	

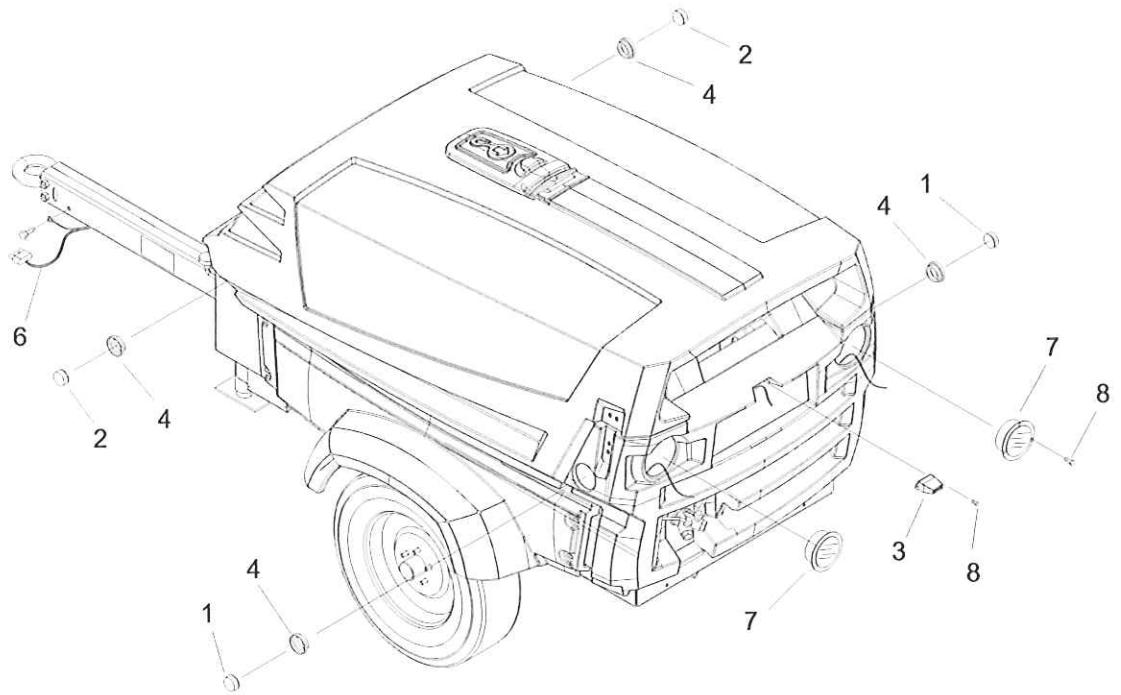
1310 9045 11 Rev. 00



15. Electrical System

Ref	Part number	Qty	Name	Remarks
1	1310 0311 65	1	Tray-battery	
2	1310 0311 67	2	Bolt-j	
3	1310 0311 66	1	Clamp-battery	
4	9710 5899 01	2	Bolt	
5	1310 0310 89	1	Battery	
6	1310 4247 00	1	Cable-battery (+)	
7	1310 0333 25	1	Cable-battery (-)	
8	1310 0345 46	1	Strap	
9	1615 7831 02	1	Oil Temperature Switch	
10	1310 0350 59	1	Coolant Temperature Switch	
11	0333 2243 00	1	Washer-spring	
12	1310 0364 08	1	Oil Pressure Switch	
13	1310 4244 00	1	Harness-wiring	
14	0653 1124 00	1	Gasket	
15	0333 2225 00	2	Washer	
16	0268 3205 00	2	Nut	
17	0147 1320 03	1	Screw	
18	1310 0363 91	1	Insulator	
19	0333 2243 00	1	Lockwasher	
20	0147 1476 03	1	Screw	
21	1088 1301 02	AR	Wire Ties	
22	0301 2321 00	4	Washer	
23	0147 1249 03	2	Screw	
24	1089 0585 01	1	Relay	
25	1615 5664 00	1	Screw	
26	0147 1323 03	3	Screw	
27	0301 2335 00	3	Washer	
28	1310 0365 57	3	Clamp	

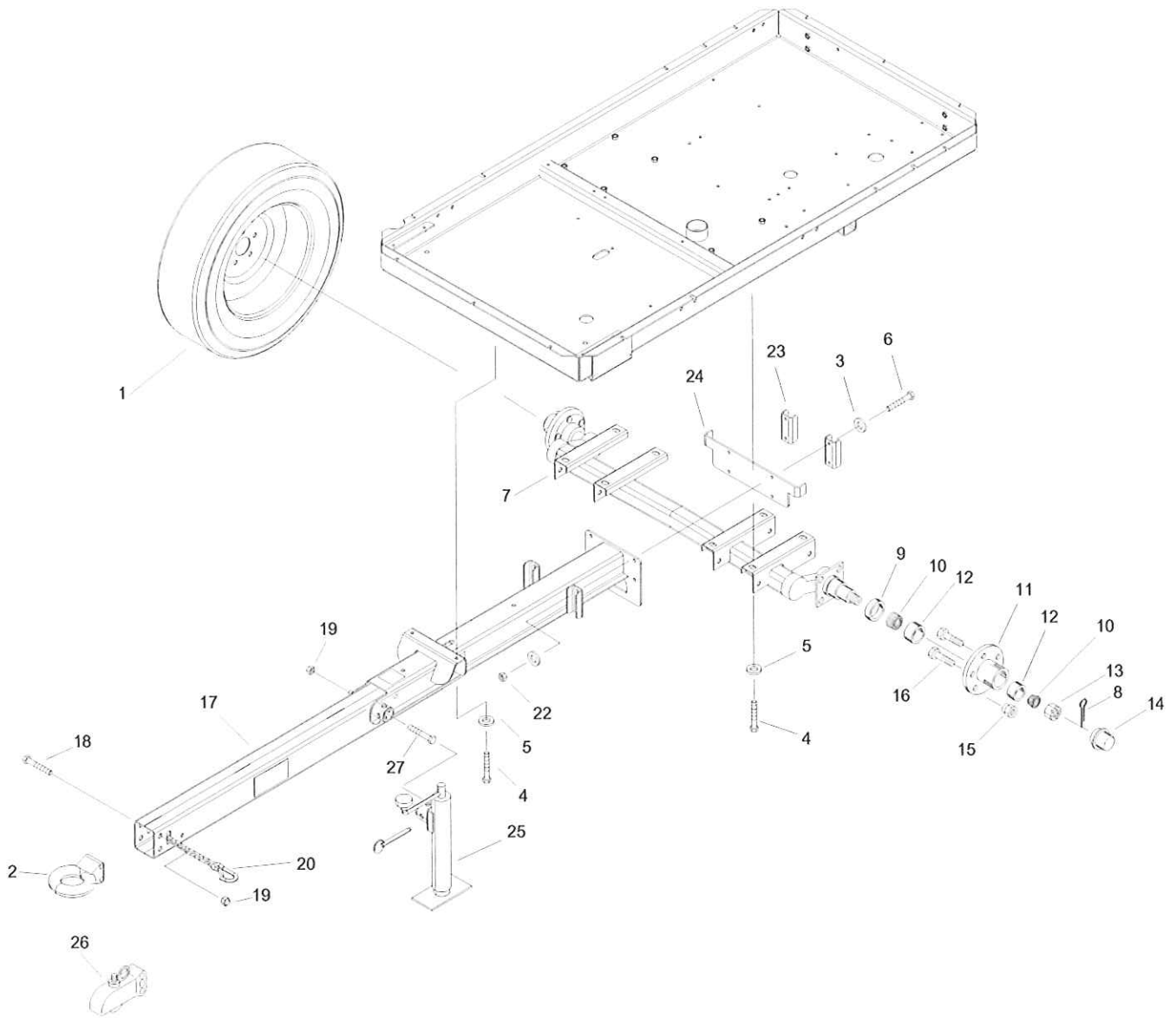
1310 9045 12 Rev 0



16. Road Lighting

Ref	Part number	Qty	Name	Remarks
1	1310 4142 00	2	Red Reflector	
2	1310 4143 00	2	Yellow Reflector	
3	1310 0369 71	1	License Plate Lamp	
4	1310 4155 00	4	Grommet	
5	1088 1301 03	6	Wire Tie	
6	1310 4164 00	1	Wire Harness	
7	1310 4166 00	2	Rear Tail Lights – PE Version Only	
8	1310 0369 58	8	Screw	
9	1310 0302 47	2	Rear Tail Lights – Steel Version Only	
10	1310 0302 93	2	Grommet for Rear Tail Lights – Steel Version Only	

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17. Drawbar, Axle Assembly

Ref	Note	Part number	Qty	Name	Remarks
1		1310 0303 94	2	Wheel-tire assembly	
2		1310 0314 51	1	Lunette Eye	
3		1310 030 84	8	Washer	
4		0147 1401 03	10	Screw	
5		0301 2358 00	10	Washer-flat	
6		1310 0303 91	4	Screw	
7		1310 4135 00	1	Axle Assembly	
8	*	1310 0341 07	2	Cotter Pin	
9	*	1310 0340 91	2	Grease Seal	
10	*	1310 0302 16	4	Bearing Cone - Outer / Inner - 1310 0220 00	
11	*	1310 0304 47	2	Hub	
12	*	1310 0224 00	4	Bearing Cup - Outer / Inner - 1310 0346 65	
13	*	1310 0340 93	2	Spindle Nut	
14	*	1310 0343 87	2	Grease Dust Cap	
15	*	1310 0341 08	10	Lug Nut	
16	*	1310 0302 18	10	Stud	
17		1310 4233 00	1	Drawbar Assembly	
18	*	0144 4000 17	2	Screw - 5/8-11 x 4.5" L	
19	*	0292 1310 00	4	Lock Nut	
20	*	1310 0359 96	2	Chain Assembly	
21	*	SCR01342	1	Screw - 3/8-16 x 3.75" L	
22		1310 0303 83	4	Nut	
23		1310 0400 09	1	Bracket	
24		1310 0400 11	4	Bracket	
25		1310 0340 12	1	Jackstand	
26		1310 0342 11	1	2" Ball Hitch	Optional
27		0144 3461 03	2	Screw	

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* Included in assembly.

1

Engaging with nose control system prohibited
Federal law prohibits the following acts or the causing thereof:

- The owner or lessee of a vehicle equipped with a nose control system shall not engage the nose control system while the vehicle is in motion.
- The owner or lessee of a vehicle equipped with a nose control system shall not engage the nose control system while the vehicle is in motion.

Compressor noise emission control information
The compressor conforms to U.S. EPA regulations for noise emissions applicable to portable air compressors.

NECESSARY SAFETY DEVICES

WARNING!
CRACK OPEN OUTLET VALVES BEFORE STARTING
ANTES DE COMENZAR, ABRIR SILEN LAS FUENTES EN LA VENTILACIÓN DE LA BATERÍA

GENUINE PARTS

TIRE AND LOADING INFORMATION
The weight of cargo should not exceed 175 lb (79 kg).

WARNING!
CIRCUIT BREAKER RESET

diesel

TIE DOWN HERE

WARNING!
CAUTION
DANGER
DANGER

2

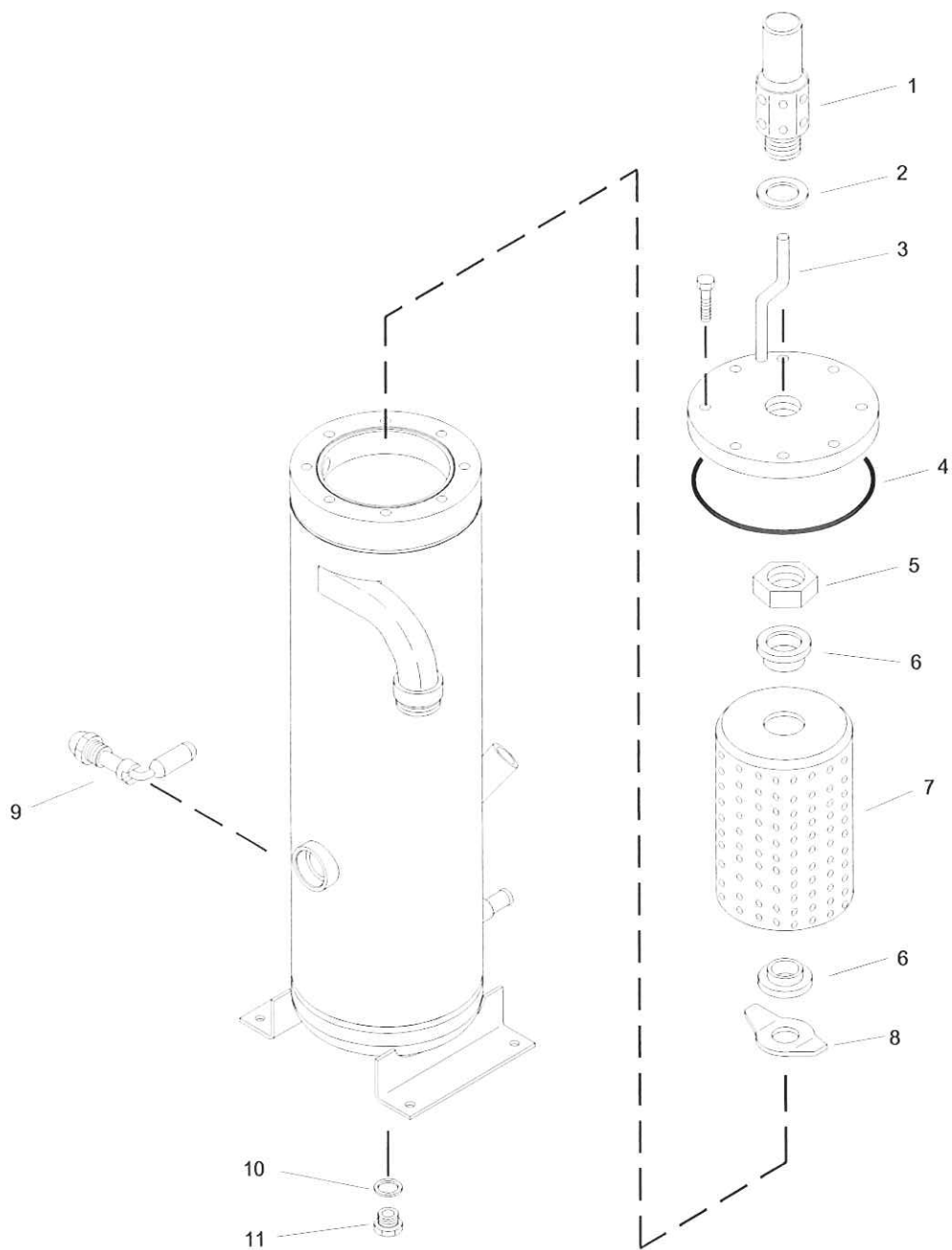
CAUTION

15W 40 OIL

CAUTION

18. Decals

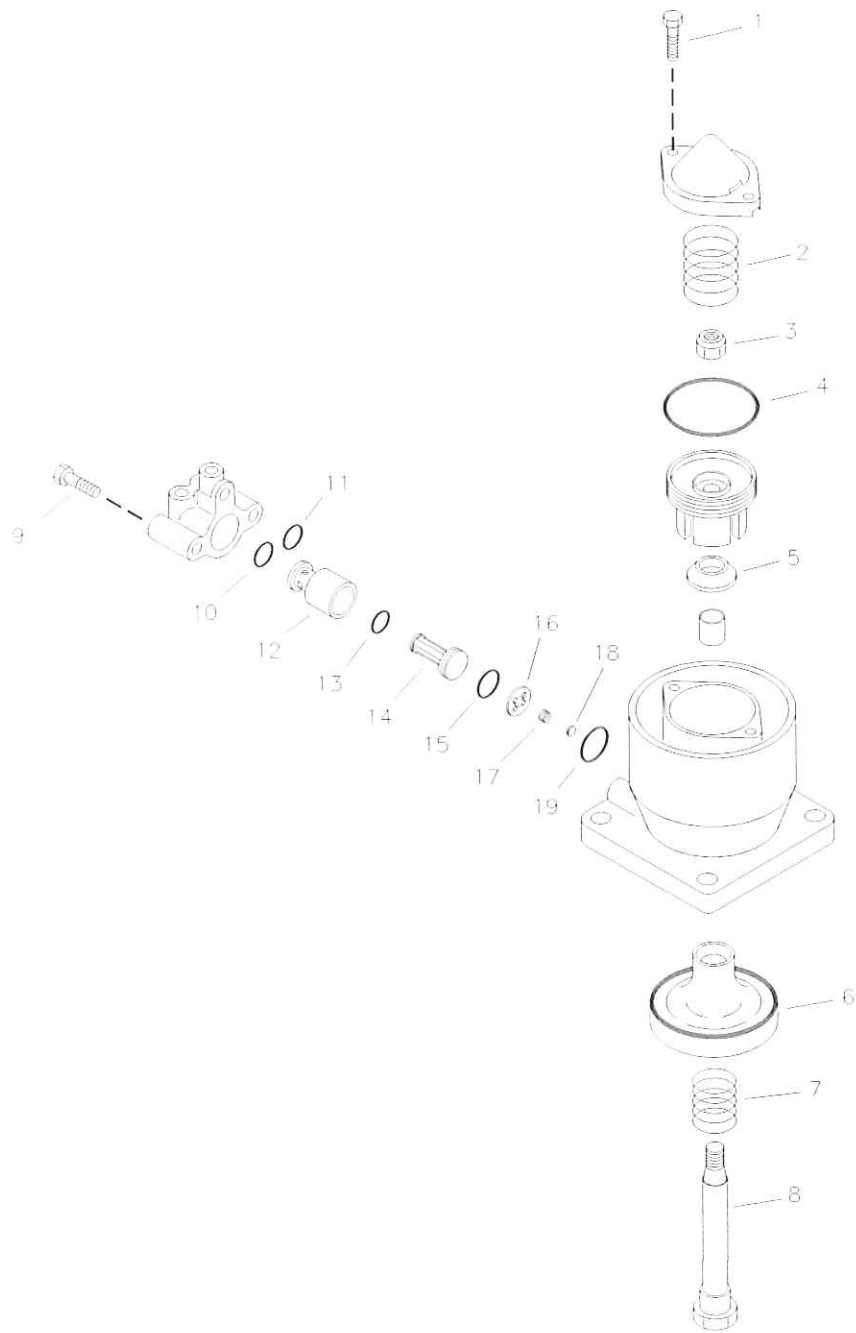
Ref	Part number	Qty	Name	Remarks
1	1310 4156 00	1	Label Sheet	
2	1310 0303 87	1	Label Sheet	



19. Air Receiver

Ref	Part number	Qty	Name	Remarks
-	1310 0301 92	1	Complete Air Receiver	
1	1615 7664 80	1	Reg. Valve Assembly	
2	0661 1104 90	1	Seal Washer	
3	1615 9437 00	1	Tube	
4	0663 7151 00	1	O-Ring	
5	0623 2106 03	1	Nut	
6	1615 7695 00	2	Seal	
7		1	Element - See Service Kit	
8	1615 7697 02	1	Retainer	
9	1616 5108 00	1	Level Gauge	
10	0661 1000 26	1	Seal Washer	
11	0686 4203 00	1	Hexagon Plug	

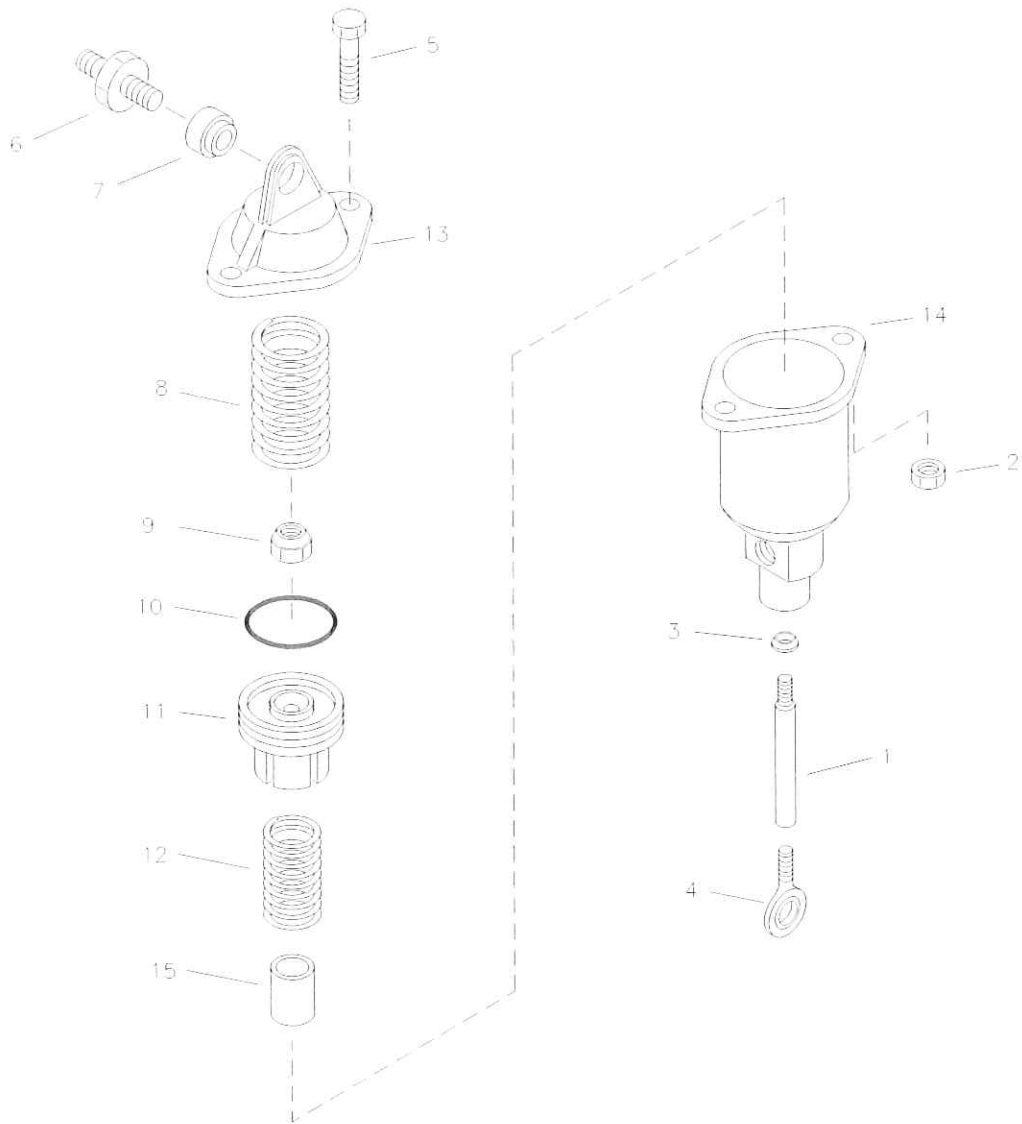
1310 9044 82 Rev. 00



20. Unloader Valve

Ref	Part number	Qty	Name	Remarks
-	1615 7667 82	1	Complete Unloader	
1	0147 1251 12	2	Hexagon Bolt	
2	1615 7672 00	1	Spring	
3	0291 1110 00	1	Locknut	
4	0665 0999 54	1	Piston Seal	
5		1	Wiper - See Service Kit	
6		1	Valve - See Service Kit	
7		1	Spring - See Service Kit	
8	1615 8757 00	1	Piston Rod	
9	0147 1252 12	2	Hexagon Bolt	
10		1	O-Ring - See Service Kit	
11		1	O-Ring - See Service Kit	
12	1615 8345 01	1	Bushing	
13		1	O-Ring- See Service Kit	
14	1615 7673 00	1	Valve	
15		1	O-Ring - See Service Kit	
16	1315 8346 00	1	Retainer	
17		1	Spring - See Service Kit	
18		1	Valve - See Service Kit	
19		1	O-Ring - See Service Kit	

1310 9042 45 Rev. 00

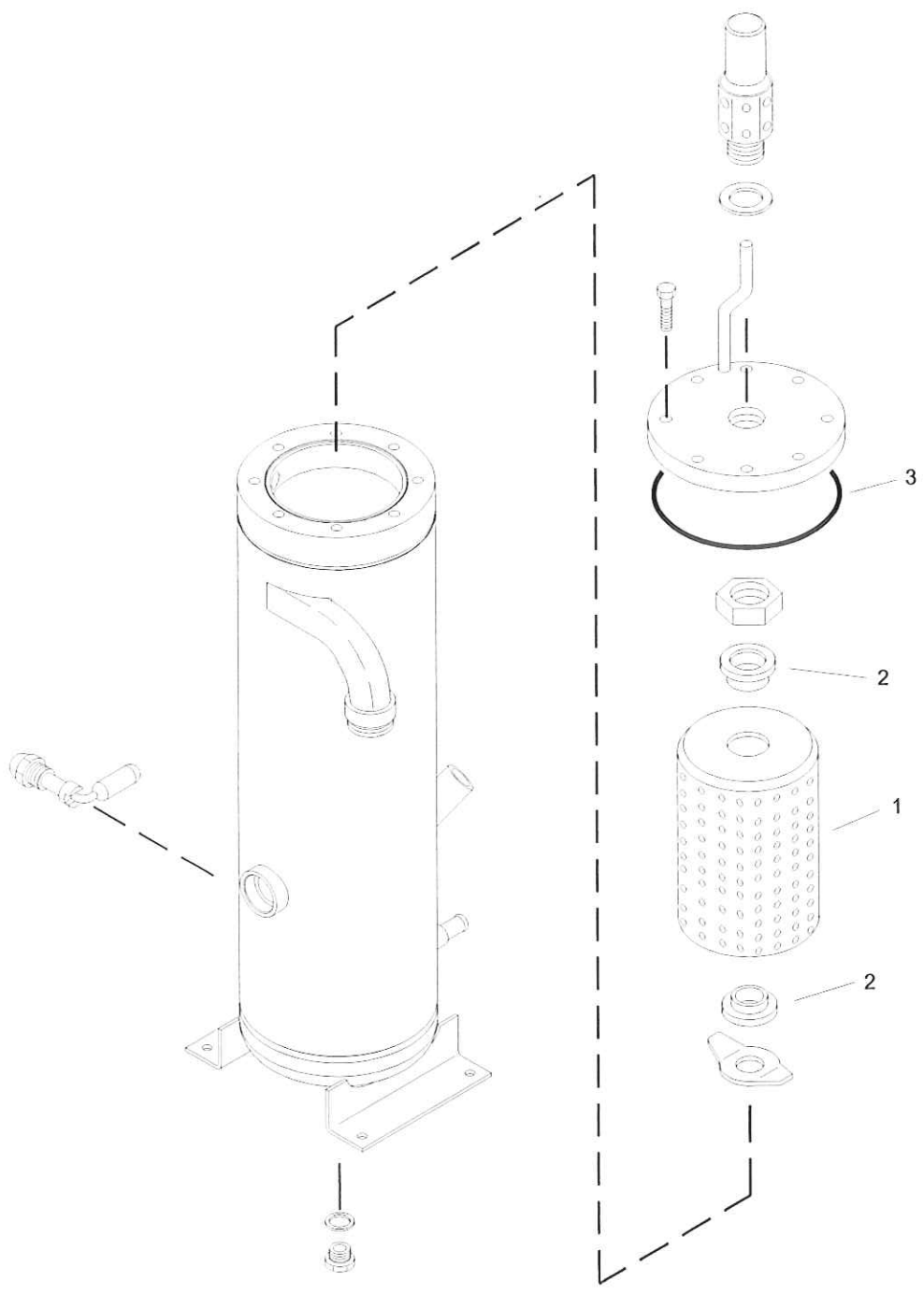


21. Actuating Valve Assembly

Ref	Part number	Qty	Name	Remarks
-	1604 0321 80	1	Complete Actuating Unit	
1	1615 8756 01	1	Piston Rod	
2	0266 2108 00	2	Nut	
3		1	Wiper - See Service Kit	1)
4	1615 9770 00	1	Bearing	
5	0147 1252 12	2	Hexagon Bolt	
6	1615 8382 00	1	Adaptor	
7	0501 0007 00	1	Bearing	
8	1615 8369 00	1	Spring	
9	0291 1110 00	2	Locknut	
10		1	Piston Seal - See Service Kit	1)
11	1615 8755 00	1	Piston	
12	2252 0489 00	1	Spring	
13	1615 8373 02	1	Cover	
14	1604 0321 00	1	Housing	
15	0500 4510 31	1	Plain bearing	

1) Included in the speed regulator service kit.

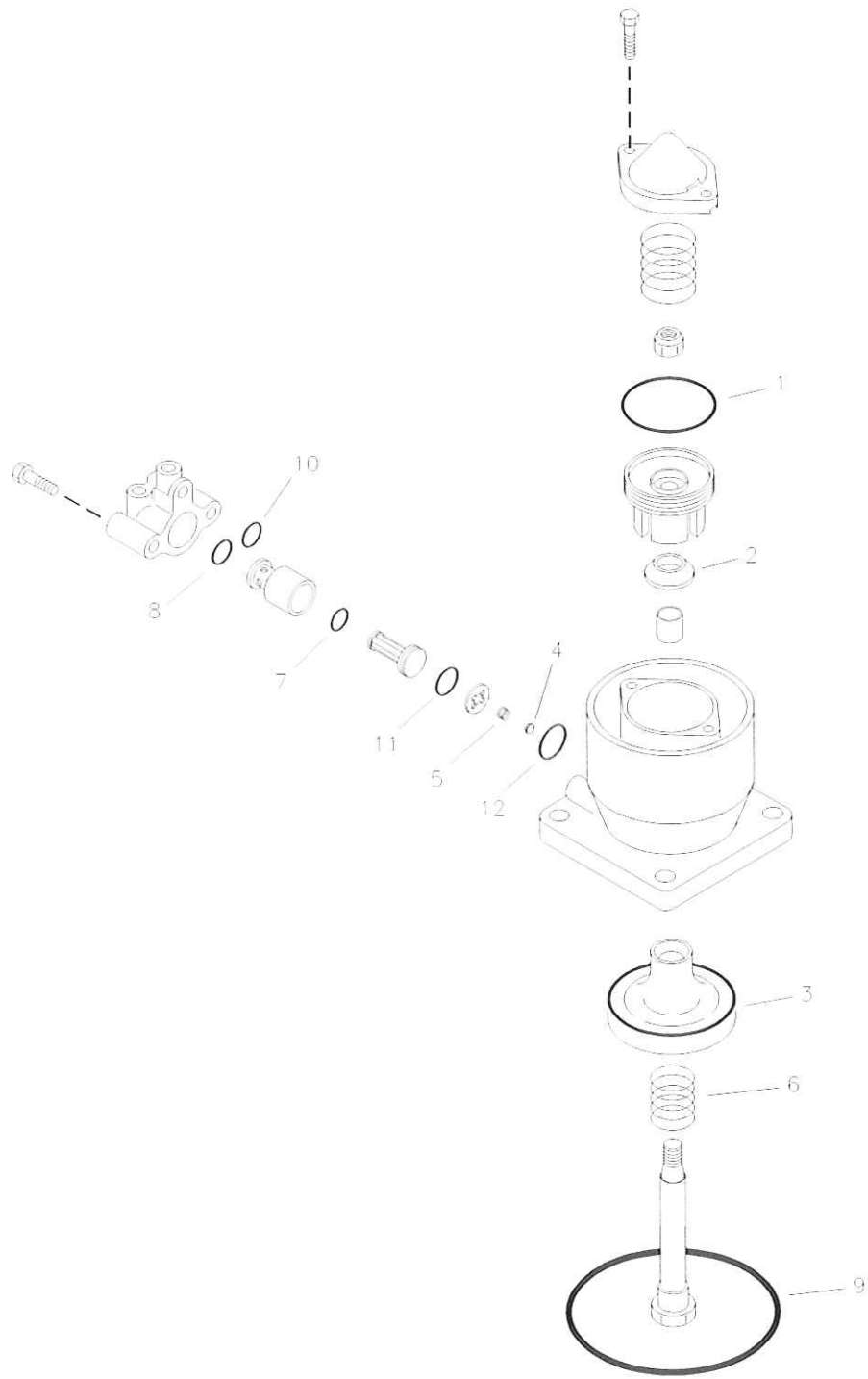
1310 9042 53 Rev. 03



22. Air Receiver Service Kit

Ref	Part number	Qty	Name	Remarks
-	2911 0068 00	1	Oil Separator Kit	
1		1	Oil Separator Element	
2		2	Seal Ring	
3		1	O-Ring	

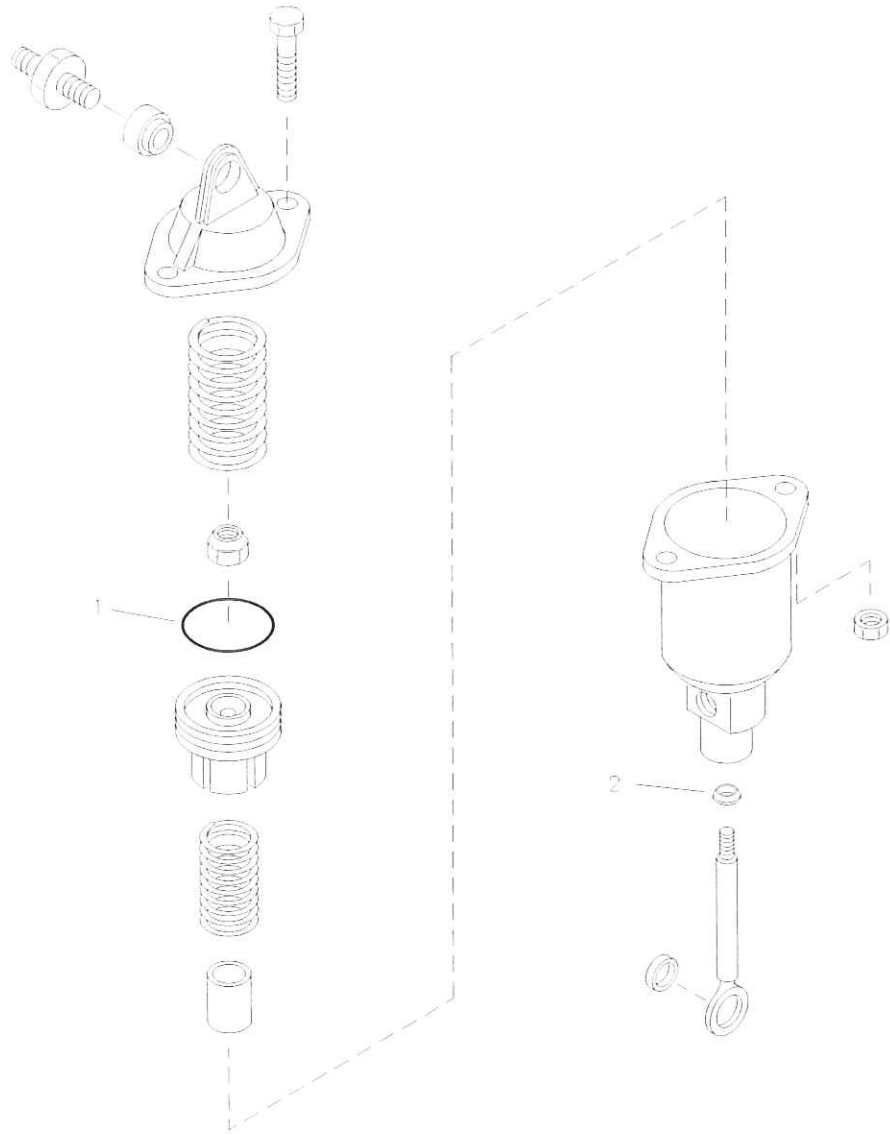
1310 9044 83 Rev. 00



23. Unloader Valve Service Kit

Ref	Part number	Qty	Name	Remarks
-	2911 0051 00	1	Unloading Valve Kit	
1		1	Piston Seal	
2		1	Wiper	
3		1	Valve	
4		1	Valve	
5		1	Spring	
6		1	Spring	
7		1	O-Ring	
8		1	O-Ring	
9		1	O-Ring	
10		1	O-Ring	
11		1	O-Ring	
12		1	O-Ring	

1310 9042 57 Rev. 00

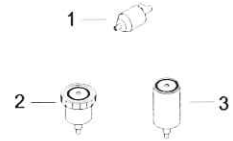


24. Speed Regulator Service Kit

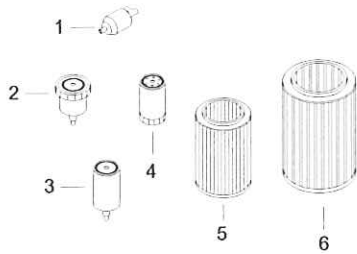
Ref	Part number	Qty	Name	Remarks
-	2911 0052 00	1	Speed Regulator Kit	
1		1	Piston Seal	
2		1	Wiper	

1310 9042 56 Rev. 00

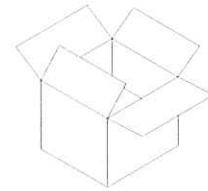
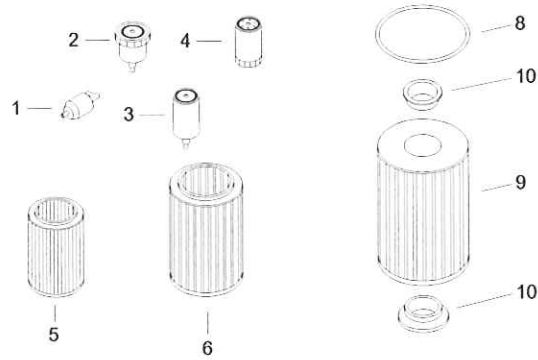
SERVICE KIT
250/750 HOUR



SERVICE KIT
500 HOUR



SERVICE KIT
1000 HOUR



OIL ANALYSIS KIT
(RECOMMENDED EVERY
500 HOURS)

25. Maintenance Kits

Ref	Part number	Qty	Name	Remarks
	1310 3003 74		250/750 Hour Service Kit	
1		1	Fuel Filter (Primary) Engine	
2		1	Fuel Filter (Final) Engine	
3		1	Oil Filter-Engine	
	1310 3003 75		500 Hour Service Kit	
1		1	Fuel Filter (Primary) Engine	
2		1	Fuel Filter (Final) Engine	
3		1	Oil Filter-Engine	
4		1	Oil Filter-Compressor	
5		1	Air Filter-Engine	
6		1	Air Filter-Compressor	
-	1310 3003 73		1000 Hour Service Kit	
1		1	Fuel Filter (Primary) Engine	
2		1	Fuel Filter (Final) Engine	
3		1	Oil Filter-Engine	
4		1	Oil Filter-Compressor	
5		1	Air Filter-Engine	
6		1	Air Filter-Compressor	
7		1	O-Ring	
8		1	Seal	
9		1	Seperator Element	
10		1	Seal	
-	1310 3083 46		Kit - Oil Analysis	

1310 9044 85 Rev. 00