comp air 8 manual

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Book Descriptions:

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Attaching the mouthpiece 1 Attach the cap to the inhalation air inlet. 2 Attach the mouthpiece to the inhalation top. Prepare the inhalation attachment according to Section 3 page 12. Check that there is no condensation or moisture in the air tube and unplug the device from the power outlet. Be sure to observe the following precautions when handling it. You can also refer to the pages of this manual for complete instructions. Problem Nothing happens when the power switch is pressed. Caution The capacity of the medication tank is 2 to 7 ml. Symptom Cause Remedy Is the power plug plugged into an electrical outlet. The Comp Air 8 is configured as a conventional highwing monoplane with optional tailwheel or tricycle undercarriage.Fuel capacity can be determined by the builder and can be as much as 180 U.S. gallons 680 L; 150 imp gal. The useful load is 2,000 to 2,500 lb 907 to 1,134 kg and the aircraft has a standard gross weight of 4,800 lb 2,177 kg. The gross weight can be increased to 5,200 lb 2,359 kg or even 5,600 lb 2,540 kg with factorysupplied reinforcing kits.By using this site, you agree to the Terms of Use and Privacy Policy. They are designed and manufactured to give optimum performance with long life and reliability. This manual gives the end user all the information required to install and operate this unit and carry out regularly scheduled maintenance to ensure the maximum satisfactory service life. Servicing facilities and the supply of genuine MAKO replacement parts are provided through a worldwide network of MAKO Distributors. If replacement parts are needed, the user should first contact the local MAKO Distributor. If there is any difficulty contacting a local distributor the end user may contact the MAKO factory representative. The information given in this manual was correct at the time of its creation.http://obkladacstvikolar.com/content/file/case-1450b-service-manual.xml

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However, as part of continuous development, modifications to parts and procedures may be made without notice that could affect the maintenance requirements of this unit. Before any maintenance work is undertaken the user is advised to contact the local MAKO Distributor who is supplied with revised and updated information. In any communication concerning these units it is essential to quote the MODEL, SERIAL NUMBER and the YEAR of MANUFACTURE. This information is located on the units nameplate. see Fig. 1.31 Throughout this manual all pressures quoted are gauge pressures unless otherwise stated. Within this structure could be headings in bold which are not numbered. All illustrations are designated by chapter, section and subsection to which they are associated followed by the number of the illustration separated by a dash fig.chapter and section designationnumber of the illustration within the section indicated fig. 4.3.2.13 would indicate the third illustration within section 4.3.2.1 01 Maintenance To ensure the continued troublefree operation of this unit it is important that periodic maintenance and servicing is carried out in accordance with the information given in the Maintenance section of this manual. To assist in this matter your local MAKO Distributor can provide a number of optional maintenance agreements to suit your requirements. These agreements provide the end user with the expertise of our factory trained technicians and the guarantee that only Genuine MAKO parts will be used. Warranty The conditions of the MAKO Warranty are set out in the Companys standard Conditions of Sale available from the MAKO Distributor supplying the unit.Notes On The Unit MAKO units are the result of many years of research and development. This experience combined with high quality standards guarantee the manufacture of breathing air charging systems which will provide a long service life, high reliability and costeffective

operation.http://www.digiever.org/UserFiles/case-1816-service-manual-download.xml

This system must be operated under technically perfect conditions and in accordance with its intended use and the instructions set out in the operating manual. This system must be operated only by safetyconscious personnel who are fully aware of the dangers involved in the operation of this system. If any functional problem is detected or suspected stop the operation of this system. Report the problem to the appropriate maintenance or service personnel. The problem must be resolved before the system is returned to operation. It is therefore imperative to adhere to the specified maintenance intervals and to carry out the maintenance work with deliberate care, especially when the unit is utilized under harsh operating conditions. fig. 1.11 CE 1.2 Intended Use This unit has been constructed in accordance with stateoftheart technology and recognized safety regulations. Nevertheless, its use may constitute a risk to life and limb of the user or third persons or cause damage to the machine or to other material property, if Maintenance Servicing Please contact your authorized MAKO distributor in the case of malfunctions or when spare parts are required. Our fully trained personnel will ensure that all repairs are carried out properly. Using only genuine MAKO spare parts. Genuine MAKO spare parts are manufactured utilizing stateoftheart technology, thus guaranteeing the continued reliable performance of the unit.They must always be available at the location of the unit. The operating instructions must be read and followed by any person carrying out work in connection with the unit, i.e. operation, setting up, disposal of any waste and consumables, maintenance, inspection, repair, and transport. Notes General These operating instructions are intended to familiarize the user with the unit and its intended use. The instructions contain important notes on how to operate the unit safely and costeffectively. 12 1.

Forward Guarantee Operate this unit only if you have an exact knowledge of the machine taking into respect these facts. MAKO cannot be held responsible for the safe operation of the unit if it is used in a manner that does not correspond to the intended use, or for other applications which are not mentioned in this manual. Warranty claims will not be accepted in the case of Operating errors Incorrect maintenance Wrong auxiliary materials Use of spare parts other than genuine MAKO spare parts Modifications and changes to the installation The warranty and liability conditions of the general terms and conditions of MAKO will not be extended by the notes above. Any unauthorized change to this unit, or the installation of components not accepted by the manufacturer i.e. fine separator will result in the withdrawal of the CE mark. As a consequence, any liability and warranty claims will not be accepted by the manufacturer. Safety Regulations Danger. The safety regulations in chapter 3 of the operating instructions must be strictly observed. Identification Of Safety Guidelines MAKO is not liable for any damage or injury resulting from the nonobservance of these safety instructions or negligence of the usual care and attention required during installation, handling, operation, maintenance or repair, even if this is not explicitly mentioned in these operating instructions. Reading the instructions after work has begun is too late. This applies especially to persons working only occasionally on the machine, e.g. for setting up or maintenance. If any of the regulations contained in these instructions especially with regard to safety does not correspond to the local legal provisions, the stricter of both shall prevail.Danger! Passages marked with this designation indicate a possible danger to personnel. Important! Passages marked with this designation indicate possible damage to unit. Observe all safety and warning notices attached to the unit! Note.

http://superbia.lgbt/flotaganis/1649424003

See to it that safety instructions and warnings attached to the machine are always complete and perfectly legible. Passages marked with this designation provide technical or procedural information for the optimal costeffective use of the unit. 3.2 In the case of safetyrelevant changes to the unit or its operating behavior, stop the unit immediately and report the fault to the responsible department or person. General Safety Instructions Spare parts have to comply with the technical requirements

specified by the manufacturer. This can always be ensured by using only genuine MAKO spare parts. Organizational Measures The operating instructions must always be at hand at the place of operation of the unit. High pressure hoses have to be changed within stipulated and periodic intervals, even if no safetyrelevant faults have been detected. In addition to the operating instructions, all other generally applicable legal and other mandatory regulations relevant to accident prevention and environmental protection must be adhered to and passed on to others. Adhere to prescribed intervals or those specified in the operating instructions for routine checks and inspections! 31 3. Safety regulations For the execution of maintenance work, tools and workshop equipment adapted to the task at hand are absolutely necessary. Unauthorized changes to the machine are not permitted for safety reasons. Genuine MAKO parts were especially designed and selected for this unit. The personnel must be made familiar with the location and operation of fire extinguishers. Observe all firewarning and firefighting procedures. Selection And Qualification Of Personnel; Basic Responsibilities The manufacturer is not liable for damage resulting from the use of nongenuine MAKO parts or special accessories. This applies also to the installation and setting of safety equipment and valves as well as to welding on structural or pressurized parts.

Work on or with the unit must be carried out by reliable personnel only. Statutory minimum age limits must be observed. Employ only trained or instructed personnel and clearly set out the individual limits and responsibilities of the personnel for operation, setup, maintenance and repair! 3.4 In addition to the general technical operation in accordance with the stipulations of the local authorities, we would like to refer in particular to the following regulations. Ensure that only authorized personnel work on or with the unit. Define the machine operators responsibilities giving the operator the authority to refuse instructions by third persons that are contrary to safety regulations. For the lifting of this unit, a suitable lifting mechanism is to be used, which meets the local safety regulations. All loose or moveable parts must be safely secured before the unit can be lifted. It is strictly prohibited to stay in the danger zone of a lifted load. Do not allow persons to be trained or instructed or persons taking part in a general training course to work on or with the unit without being continuously supervised by an experienced person. The correct method of lifting according to the operating instructions of the load suspension device has to be ensured. Work on the electrical equipment of the unit must be carried out only by a skilled electrician in accordance with electrical engineering rules and regulations. All blind flanges, plugs, caps and bags with drying agent have to be removed prior to the installation of the pipes. Distributing pipes and pipe connections have to be of the proper size and suitable for the relevant operating pressure. Work on system elements such as high pressure hoses may only be carried out by personnel with special knowledge and experience. 3.3 Installation And Normal Operation The system has to be installed in such a way that it is adequately accessible and the required cooling is guaranteed. Never block the air intake.

Make sure that the ingress of humidity via the intake air is kept to a minimum. The air intake is to be positioned so that no loose clothing of persons can be sucked in. The pressure line connected to the air outlet of the system must be fitted stressfree. If a remote control is used, the system must carry a clearly visible sign with the following note Attention. This installation is operated by remote control and can start up without prior warning. If compressed air hoses are used.Do not use chafed or damaged hoses. As an additional safety measure, persons, who start remotely controlled systems, have to take sufficient safety precautions in order to ensure that nobody is checking the system or working on it. For this, a label with a corresponding warning notice has to be attached to the remote control equipment. Only use hose couplings and fittings of the right type and the correct size. Before blowing through a hose or an air pipe ensure that the open end is positively held. A free end whips

and can cause injuries. The installed unitspecific safety valves only assume the pressure safeguarding function of this unit provided in currently valid standards and regulations. Before loosening or disconnecting any connection ensure that it in not under pressure. Electrical connections must meet the local regulations. Power units must be connected to earth and protected from shortcircuits by means of fuses. Refrain from any working method which is doubtful in terms of safety. Condensate Drain Never play around with compressed air from this unit. The condensate discharge is to be disposed of in accordance with all applicable local laws, rules and regulations Never aim compressed air from this unit at yourself or at any other person. Normal Operation Never use compressed air from this unit to clean your clothing. The system pressure of the unit can be located on the nameplate of the unit. Never use compressed air from this unit to clean equipment.

Take the necessary precautions to ensure that the unit is used only when in a safe and reliable state. Never use the machine in an environment where inflammable or poisonous vapour can be sucked in. Operate the machine only when all protective equipment, emergency shutoff equipment, soundproofing elements and extraction devices are in place and fully functional! 33 3. Safety regulations Follow the adjusting, maintenance and inspection activities and schedule set out in the operating instructions, including information on the replacement of parts and equipment. These activities must only be carried out by skilled personnel, under qualified supervision. Never operate the system at pressures and temperatures below or above the values indicated in the technical data sheet. All access panels, etc.Persons in an environment or areas in which the sound pressure is 85 dBA or higher have to wear ear protectors. Brief the personnel operating the unit prior to starting any special operations or maintenance work. Appoint a person to supervise the activities. Check the unit at the beginning of each startup and at least once every 8 hours of operation for visible damage or problems. Report any problems or changes in the machines operating Behavior to the responsible department or person immediately. In the case of any problem which might effect the safe operation of this unit, stop the unit immediately. Have any problem resolved before restarting the unit. Maintenance and repair work may only be carried out under the supervision of a person who is qualified to do the work. Oil losses result in a slippery floor. Therefore, always clean the floor and the outside of the unit prior to starting any maintenance work. Inspection, maintenance and repair work may only be carried out with the unit being at rest and depressurized. Protective equipment to be removed for this work has to be properly refitted after completion of these activities.

During maintenance and repair when working on a running unit, working clothes have to be closefitting. Always use the correct tools for maintenance and repair work. Never use inflammable solvents or carbon tetrachloride to clean parts. Take precautions against poisonous vapors from cleaning agents. In any work concerning the operation, conversion or adjustment of the unit and its safetyoriented devices or any work related to maintenance, inspection and repair, always observe the startup and shutdown procedures set out in the operating instructions and the information on maintenance work. Ensure that the maintenance area is adequately secured. 34 3. Safety regulations To lower the risk of accidents, individual parts and large assemblies being moved for replacement purposes should be carefully attached to lifting tackle and secured. Use only suitable and technically correct lifting gear and only utilize suspension systems with adequate lifting capacity. Never work or stand under suspended loads. Never weld any pressure reservoir or change it in any way. During maintenance and when carrying out repair work, cleanliness is very important. Avoid the ingress of dirt by covering parts and free openings with a clean cloth, paper or adhesive tape. Before releasing this unit for operation after maintenance or overhaul check that the unit is functioning properly and the regulating, shutdown equipment and safety interlocks are working properly. After the completion of each repair, check that no tooling, loose parts, cloth or debris have been left in the unit. Examine the pressure tube and the pressure vibration dampers for carbon deposits every six months. Excessive deposits have to be removed. If work which produces heat, flames or sparks has to be carried out on or near this unit, the adjacent components of this unit have to be protected by

means of non inflammable material. Care must be taken any time this unit is in operation.

Motor, air filter, electrical components and regulating equipment have to protected from the ingress of humidity, e.g. when cleaning the system by means of a steam jet. Maintenance And Repair The employer has to inform the employee of the dangers possibly arising during the repair and maintenance of this unit as well as on how to avoid them; the employee has to observe all measures for safety at work. Safety equipment for the prevention or elimination of danger has to be maintained regularly and functionally checked at least once a year. Under no circumstance shall the soundproofing material be removed or modified. Never use etching solvents which could attack the materials used. If indicated or if there is any suspicion that an internal part of the unit has run hot, the machine has to be shut down and the unit checked. Use only genuine MAKO spare parts. In order to avoid an increase in the operating temperature, check and clean the heat transfer surfaces cooling fins, intermediate cooler, etc. at regular intervals. Prepare a plan of the most favorable cleaning intervals for this unit. During installation, inspections, maintenance, or repairs the lockout procedure must be followed. see section 3.5 Before removing or opening pressurized components, positively isolate any source of pressure and depressurize the entire system. Avoid damage to the safety valves and other pressure reducing components. Check in particular for clogging caused by paint, oil carbon or the accumulation of dust, which could deteriorate the effectiveness of these components. Check the accuracy of pressure and temperature indicators at regular intervals. If the admissible tolerance limits have been exceeded, these devices must to be replaced. After cleaning, remove all covers and masking completely and allow the unit to dry before returning unit to service. Before removing or overhauling a compressor, a motor or any another equipment, ensure that all moveable parts are safely secured.

After completion of repair work, always verify that no tools, loose parts or cloths have been left in or on the unit, drive motor or drive equipment. Units must be cycled several times in order to ensure that there are no mechanical faults in the machine or the drive members. Check the direction of rotation of the electric motors during first commissioning and after each modification of the electrical connections in order to prevent the compressor from being damaged. Always retighten screwed connections which have been loosened for maintenance and repair work. If the setup, maintenance or repairs require the removal of safety equipment, this equipment has to be replaced and checked immediately after these activities. Ensure that consumables and replacement parts are disposed of in a safe and environmentally friendly manner in accordance with all applicable local, regional and national laws, rules and regulations. The fastening of loads and the instructing of forklift or crane operators should be entrusted to experienced personnel only. The person giving the instructions must be within sight or voice contact with the operator. 3.6 Warning Of Special Dangers Electric energy Use only genuine MAKO fuses with the specified current rating. For carrying out overhead assembly work always use specially designed or otherwise safetyorientated ladders and working platforms. Never use machine parts as a climbing aid. Wear a safety harness when carrying out maintenance work at greater heights. Work on the electrical system or equipment must only be carried out by a skilled electrician or by specially instructed personnel under the control and supervision of such an electrician and in line with the relevant electrical engineering rules. Clean the machine, especially connections and threaded unions, of any traces of oil, fuel or preservatives before carrying out maintenance or repair work. Never use aggressive detergents. Use lintfree cleaning rags.

If regulations require, the power supply to parts of machines and plants on which inspection, maintenance and repair work is to be carried out must be cut off. Before starting any work, check the deenergized parts for the presence of power and ground or shortcircuit them in addition to insulating adjacent live parts and elements. The electrical equipment of this unit is to be inspected and checked at regular intervals. Defects such as loose connections or 36 3. Safety regulations

Compressedair lines must be laid and fitted properly. Ensure that no connections are exchanged. The fittings, lengths and quality of hoses must comply with the technical requirements. Necessary work on live parts and elements must be carried out in the presence of a second person who can cut off the power supply in case of danger by operating the emergency shutdown or main power switch. Secure the working area with a redandwhite safety chain and a warning sign. Use insulated tools only. Noise Soundproofing elements on the unit have to be active during operation. See section 4.1 for the noise levels of this unit. Wear personal ear protection as prescribed. Before starting work on highvoltage assemblies and after having cut out the power supply, the feeder cable must be grounded, and components, such as capacitors, shortcircuited with a grounding rod. Noise, even at a low level, can cause nervousness and annoyance; over a longer period of time, our nervous system can suffer serious damage. We therefore recommend a separate machine room in order to keep the noise of the machine away from the workshop. Depending on the number of machines in a machine room, the noise can be quite loud. A warning sign has to be attached to each entrance indicating that everybody who enters the room, even for a short time only, has to wear ear protectors. Work on high pressure air equipment must only be carried out by persons with special knowledge and experience of high pressure air systems.

Check all lines, hoses and threaded connections regularly for leaks and obvious damage. Damage must be Repaired immediately. High pressure air may cause serious injury or death. Above 95 dBA the warning signs have to contain the recommendation that occasional visitors also have to wear ear protectors. Depressurize all system sections, pressure pipes, tubing and hoses which are to be removed in accordance with the specific instructions for the assemblies concerned before carrying out any repair work. Above 105 dBA special ear protectors, which are suitable for the noise level and the spectral composition of the noise must be available. A corresponding warning sign must be fixed to each entrance door. 37 3. Safety regulations Units which have been commissioned must be run continuously for a minimum of 1 hour once a week. Take care that the noise transmission through walls and frames does not result in too high a noise level in the surrounding areas. Units which are not run continuously for a minimum of 1 hour once a week require additional precautions to be taken by qualified service personnel. Oils, Greases And Other Chemical Substances When handling oils, greases and other chemical substances, observe the safety regulations for this product! Note. The following conditions must be taken into account for storage of this unit. Be careful when handling hot fuels and consumables danger of burning or scalding. The unit should be stored in a dry building which should be heated if possible. Rooms Subject To Explosion Hazards This is particularly true during the months of winter. Units must never be operated in areas subject to explosion hazards! Exception Special units with the corresponding technical modifications 3.7 Before commissioning the compressor all the electrical and electronic components and units should be checked for the ingress of water or condensation.

Storage Of Compressors All units are protected against corrosion at the factory for transport and for brief storage before commissioning. If oil is milky take unit out of service and report this to service personnel. fig. 3.819 Check Oil Level before each StartUp 3.9 Logs And Daily Inspections MAKO Supplies two log sheets. The first is a daily log sheet, appendixD, used by Operator. Make additional copies and create a daily log book. The second is a maintenance log sheet maintained by the service personnel. Keep both logs with the unit at all times. 3.9.1 Daily Log Book The daily log book should be checked each and every time before the unit is turned on. Out of service After any shut down or perceived problem unit must be taken out of service and “Out Of Service” must be written in daily log. Do not try and restart unit until problem is resolved. Report any such shutdown or problem to appropriate service personnel. After problem is solved unit is put back in service, the solution is documented, initialed and dated in the daily log. Check Oil levels regularly during continuous use. Top off oil levels as necessary. The compressor can not use the same oil as the engine. Use only Genuine MAKO Compressor oil in the compressor. see section 7.5 Oil for the engine is per engine

manufacturers recommendations. Check for oil leaks and walk around unit and look for problems. Check Auto Drain Reservoir and empty as necessary. If any problems are found that could effect the safe operation of the unit take the unit out of service and report to service personnel. Document any actions taken in daily log. After unit has been approved for service place check in “Oil LevelLeaks” column and continue. 312 3. Safety regulations 4. Check the ambient air quality at the air intake and surrounding area. If the air quality is not acceptable take the unit out of service. If the air quality is acceptable place a check mark in the “Ambient Air Quality” column and continue. 7.

Place Your initials in the operator column. 8. Unit can now be started. 9. Listen and look for air leaks. If an air leak is detected take the unit out of service. Report leak to the service personnel. 5. Record the hours reading on the unit. Compare hours run on unit and current date against the “Maintenance Log” and against the due hour and date of the next filter change and oil change see section 7.3 for information on filter changes and section 7.5 for information on oil changes Note overdue maintenance, filter change or oil change and take the unit out of service. Report the overdue service to service personnel. Report maintenance, filter change or oil change coming due to service personnel. Danger! High pressure air leaks can be very dangerous. The Mako Breathing Air Module See Fig. 4.11 incorporates all functions required to safely supply high pressure breathing air that meets or exceeds CGA Grade E criteria. These functions include Do not use system for any application other than for breathing air system Noise The unit under normal operating condition has a maximum noise level of 73dBA. 1. Delivery of high pressure air to the purification subsystem at a temperature only slightly above the ambient air temperature Max. Compressor Will Shut Down. Take the unit out of service. see section 3.9.1 Control Panels 4.3.1 MEC Controller 6. Air Temperature High RED Indicates air temperature is to high for safe operation of the unit. Take the unit out of service. see section 3.9.1 1. Emergency Stop Pushing the emergency stop button will instantly disconnect the power from the compressor and all electronics. Turn emergency stop button clockwise to reset, before the unit can be restarted. 7. High Air GREEN Indicates the air pressure has reached the high set point and has shut down. Press this button again to turn off. Important ! 3. Compressor On Button Press this button to enable the compressor, it will light up green. Controller will start the compressor.