

Compressed Air System Safety

Section 05-01-01 Gen2



Manual Version 0001

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Preface

This Manual is provided as a guide to personnel involved with the operation, maintenance and repair of Komatsu Mining Corp. equipment. We recommend that such personnel review and become familiar with the general procedures and information contained within this manual. In addition, we recommend that this manual be kept readily available for reference when repairs or maintenance are necessary.

Read and become familiar with this Manual and any other general safety practices before attempting any procedures.

Due to the complexities of mining equipment and the environment in which it operates, situations may arise which are not directly discussed in detail in this Manual. When such a situation arises, past experience, availability of equipment and common sense play a large part in what steps are to be taken. In addition, a Komatsu Mining Corp. service center representative is available to answer your questions and assist you upon request.

Komatsu Mining Corp. reserves the right to continually improve its products and associated documentation. Therefore, physical alterations to Komatsu equipment may not be identified in this Manual. Revisions may be frequently made to this Manual in an effort to ensure that information contained within is current as alterations occur to the equipment. If you find an error or have other feedback regarding this Manual, please contact Product Training and Publications at *Pro.Train.Pub@mining.komatsu*.

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Scope of This Publication

This Section of the manual titled “**COMPRESSED AIR SYSTEMS**” provides service technicians with an operational overview for the loader’s Compressed Air System.

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Safety

This publication contains special instructions that pertain to safety, operation, maintenance, and repair of the machine. Listed below are the signal words and symbols that precede these instructions and their meanings:



DANGER

The danger label indicates a hazardous situation which, if not avoided, will result in death or serious injury.




WARNING

The warning label indicates a hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION

The caution label, used with the safety alert symbol indicates a hazardous situation which, if not avoided, could result in minor or moderate injury (includes the safety alert symbol .

CAUTION

The caution label (without safety alert symbol) is used to address practices not related to personal injury – only equipment damage.

NOTICE

The notice label indicates areas of importance to the reader that are not related to personal injury or machine damage.

Safety, Warnings, and Cautions



WARNING

OVERPRESSURE EXPLOSION

- Explosion hazard exists if the air system is over pressured when manually charging the system. Do NOT over pressurize the air system when manually charging it. Over pressured components can explode. Over pressuring the system can cause explosion hazards resulting in serious injury or death.

CRUSHED BY OR STRUCK BY

- Crush hazards exist if failing to relieve hydraulic pressure from the hoist and bucket circuit. Releasing air pressure from the hydraulic system does NOT relieve hydraulic pressure from the hydraulic system. Refer to the Service Manual Section 04, “HYDRAULIC & GREASE SYSTEMS” for information on relieving the hydraulic pressure in the hydraulic system. Failure to relieve hydraulic pressure from the hoist and bucket circuit can cause crush hazards resulting in serious injury or death.

SKIN INJECTION HAZARD

- Skin injection hazard exists when removing any valves or hoses, or attempting to connect gauges to couplers. Hydraulic fluid and air under pressure can penetrate the skin and cause serious injury, blindness, or death. Wear work gloves and keep your hand well away from any possible source of escaping fluid or air. Wear safety goggles. Fluids or air under pressure can penetrate the skin and cause serious personal injury, blindness, or death. If any fluid is injected into the skin, it must be removed as soon as possible by a doctor familiar with treating this type of injury. Fluid or air leaks under pressure may not be visible. When searching for leaks, NEVER use your hand; use a piece of metal. Wear work gloves and keep your hand well away from the possible source of leakage. DO NOT tighten or loosen fuel, hydraulic, air, or grease lines without first relieving the pressure. Wear safety goggles for eye protection and wear all other locally required personal protective equipment (PPE) when working around possibly pressurized liquids or gasses. Failure to use proper PPE can cause a skin injection hazard resulting in serious injury or death.

CAUTION

EQUIPMENT DAMAGE

- Testing of the KLENZ™ system, air brakes, air horn and other air systems for flow requirements with flow meters shows that the compressor currently in use does not have the capacity to cope with a major continuous air leak. All leaks should be fixed as soon as possible.

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