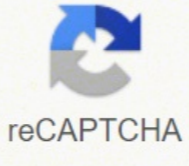




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# Hitachi excavator service manual pdf format pdf

Precautions for Disassembling • To prevent dirt from entering, cap or plug the removed pipes. After finishing welding and grinding, check that there are no abnormalities such as the area sur- rounding the welded area still smoldering. • Do not continue to use or charge the battery when electrolyte level is lower than specified. W2-78 Disassemble Right and Left Pilot Valves ..... 11

• If unavoidably lifting a load with a temperature of 100 C (212 F) or more, reduce the load weight. • Inspect the contact or sliding surfaces of disassembled parts for abnormal wear, sticking, or other damage. Safety signs should be installed, maintained and replaced when necessary. SAFETY SA-22 PREVENT BURNS Hot spraying fluids: After operation, engine coolant is hot and under pressure. When installing an O-ring into a groove, use grease to hold it in place. No.WADB-EN Hitachi ZX330U-5A Excavator Workshop Manual. 366 Pages Hitachi ZX330U-5A Excavator Technical Manual. 396 Pages Electrical Circuit Diagram - 18 Pages SI Units (International System of Units) are used in those manual. GENERAL / Tightening W1-2-10 Connecting Hose CAUTION: When replacing hoses, be sure to use only genuine Hitachi service parts. Also, appoint a signal person to coordi- nate the job site. • When using the machine for craning operations, be sure to comply with all local regulations. • Pressurized lines can be accidentally cut when heat goes beyond the immediate flame area. • Keep a first aid kit and fire extinguisher on hand. Government regulations may require a certified air conditioning service center to recover and recycle used air conditioning refrigerants. To avoid injury and damage, be sure to use appropri- ate lifting techniques and equipment when lifting heavy parts. Using hoses that are genuine Hitachi hoses may cause oil leaks, hose rupture or separation of fitting, possibly resulting in a fire on the machine. W105-01-01-015 W105-01-01-016 W105-01-01-008 W105-01-01-009 W105-01-01-010 Bend along edge sharply Do not bend it around Bend along edge sharply Do not bend it around W105-01-01-011 W105-01-01-012 W105-01-01-013 W105-01-01-014 W105-01-01-015 W105-01-01-016 W105-01-01-017 W105-01-01-018 W105-01-01-019 W105-01-01-020 W105-01-01-021 W105-01-01-022 W105-01-01-023 W105-01-01-024 W105-01-01-025 W105-01-01-026 W105-01-01-027 W105-01-01-028 W105-01-01-029 W105-01-01-030 W105-01-01-031 W105-01-01-032 W105-01-01-033 W105-01-01-034 W105-01-01-035 W105-01-01-036 W105-01-01-037 W105-01-01-038 W105-01-01-039 W105-01-01-040 W105-01-01-041 W105-01-01-042 W105-01-01-043 W105-01-01-044 W105-01-01-045 W105-01-01-046 W105-01-01-047 W105-01-01-048 W105-01-01-049 W105-01-01-050 W105-01-01-051 W105-01-01-052 W105-01-01-053 W105-01-01-054 W105-01-01-055 W105-01-01-056 W105-01-01-057 W105-01-01-058 W105-01-01-059 W105-01-01-060 W105-01-01-061 W105-01-01-062 W105-01-01-063 W105-01-01-064 W105-01-01-065 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Hydraulic System Group 3 Electrical System SECTION 3 COMPONENT OPERATION Group 1 Pump Device Group 2 Swing Device Group 3 Control Valve Group 4 Pilot Valve Group 5 Travel Valve Group 6 Signal Control Valve Group 7 Others (Upperstructure) Group 8 Others (Undercarriage) TECHNICAL MANUAL (Troubleshooting) SECTION 4 OPERATIONAL PERFORMANCE TEST Group 1 Introduction Group 2 Standard Group 3 Engine Test Group 4 Excavator Test Group 5 Component Test Group 6 Adjustment SECTION 5 TROUBLESHOOTING Group 1 General Group 2 Component Layout Group 3 Troubleshooting A Group 4 Troubleshooting B Group 5 Troubleshooting C Group 6 Electrical System Inspection Group 7 ICX 36. Take care when traveling over it. • Check the MSDS before you start any job using a hazardous chemical. • Never install bent or damaged lines, pipes, or hoses. • Be sure to use the specified special tools, when instructed. • Park a reasonable distance from other machines. Using an air wrench often causes tightening of one bolt fully before tightening of the others, resulting in damage to O-rings or uneven tightening of bolts. • Reposition the front attachment to check hydraulic oil level. If defects cannot be polished out, replace the component. Make sure that nut and bolt threads are clean before installing. Do not wear radio or music headphones while operating the machine. Keep children and bystanders away from storage areas. Do not support the machine on cinder blocks, hollow tires, or props that may crumble under continuous load. If the travel motors are located in front of the cab, the machine will move in reverse when travel pedals/levers are operated to the front. • When operating near an electric line, NEVER move any part of the machine or load closer than 3 m (10 ft) plus twice the line insulator length. Apply LOCTITE to threads before installing and tightening swing bearing mounting bolts and lower roller mounting bolts. S508-E02B-0019 29. Avoid contact with protrusions. If incorrectly assembled, oil leakage or damage will occur. 010-E01A-0237 SA-237 MOVE AND OPERATE MACHINE SAFELY Bystanders can be run over. • Use leakproof containers when draining fluids. 509-E01A-0016 SA-016 30. • If the machine starts to skid or becomes unstable, immediately lower the bucket to the ground and stop traveling. Operating equipment safely requires the full attention of the operator. • Only qualified personnel should perform welding. • Thoroughly read and understand the label attached on the fire extinguisher to use it properly. 2) Turn the emergency engine stop switch to the EMERG. • Inquire on the proper way to recycle or dispose of waste from your local environmental or recycling center. W2-6-42 Disassemble and Assemble Parking Release Valve (ZAXIS270)..... That way you will know exactly what the risks are and how to do the job safely. • Riders also obstruct the operator's view, resulting in the machine being operated in an unsafe manner. Battery electrolyte is poisonous. W2-7-1 Remove and Install Left Pilot Valve..... Before using a nylon sling, visually check the nylon sling for any damage corresponding to examples shown to the right. If you have any questions, you should first consult your supervisor and/or your authorized dealer before operating or performing maintenance work on the machine. • The operator should be able to fully depress the pedals and to correctly operate the control levers with his back against the seat back. (Refer to the right illustration.) • When removing the slings from under the load, take care not to damage the nylon slings. • Check the emergency engine stop switch function every 250 hours: 1) Start the engine and run it at slow Idle. SAFETY SA-23 AVOID HIGH-PRESSURE FLUIDS Fluids such as diesel fuel or hydraulic oil under pressure can penetrate the skin or eyes causing serious injury, blindness or death. Follow the precautions below to use nylon slings safely. (2) Check the slide surface on seal ring (A) for scuffing, scoring, corrosion, deformation or uneven wear. • Take care not to allow the sling to become wet. Be sure to clean and inspect sealing surfaces. • Don't leave parts and/or tools lying around the operator's seat. • Keep all parts in good condition and properly installed. Hot water or steam is contained in the engine, radiator and heater lines. All fuels, most lubricants, and some coolants are flammable. 001-E01A-0688 SA-688 UNDERSTAND SIGNAL WORDS On machine safety signs, signal words designating the degree or level of hazard - DANGER, WARNING, or CAUTION - are used with the safety alert symbol. • When you mounting and dismounting the machine, always face the machine and maintain a three-point contact with the steps and handrails. • We recommend that the seat belt be replaced every three years regardless of its apparent condition. 3) Turn the auto-idle / acceleration selector off. Normal machine performance cannot be accomplished after exceeding this limit. • Avoid storing transparent bottles in the cab. • Avoid changing direction when traveling on grades. white zinc B dissolved Into Spindle oil) to nuts and bolts to reduce their friction coefficients. Keep riders off. SAFETY SA-4 PROTECT AGAINST NOISE Prolonged exposure to loud noise can cause impairment or loss of hearing. INTRODUCTION IN-01 ADDITIONAL REFERENCES Please refer to the materials listed below in addition to this manual. Four different types and grades of bolt are employed. Information included in the Workshop Manual: Technical information needed for maintenance and repair of the machine, tools and devices needed for maintenance and repair, maintenance standards, and removal / installation and assemble / disassemble procedures. W178-01-03-010 Mirror Stay Bed Cover 720900600 Main Surface of Upperstructure Main Surface of Upperstructure Right Ladder Rail Inside and Outside Surface of Cab Right Window Beam 61. • When cleaning parts, always use nonflammable detergent oil. W178-01-03-010 Mirror Stay Bed Cover 720675785 Main Surface of Upperstructure Main Surface of Upperstructure Right Ladder Rail Inside and Outside Surface of Cab Right Window Beam 63. • If an anti-corrosive agent has been used on a new part, be sure to thoroughly clean the part to remove the agent.

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