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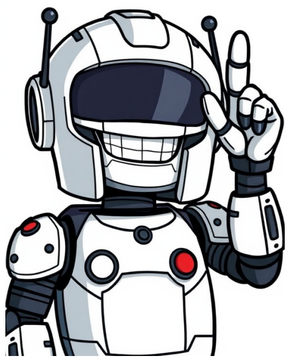

The takeuchi mini excavator is a highly regarded brand in the global construction machinery market, known for its portability, stability, economy, and high performance. The various models available offer multipurpose functionality, making them suitable for use in diverse industries such as industrial, construction, utility, agricultural, and residential projects, as well as pond farming. The takeuchi mini excavator's key selling point is its use of premium Japanese components, which enable it to operate efficiently in urban areas due to its small size, eco-friendly engines, fuel equipment, and hydraulic system. One of the distinctive features of the takeuchi mini excavator is its "side-to-side" rotation capability, allowing the boom to rotate 60-90 degrees in either direction. The ladle also rotates 90 degrees, providing greater flexibility for the operator. Additionally, the machine features hydraulic service outlets for various accessories, making it adaptable. The takeuchi mini excavator model line offers five different versions (tb108, tb016, tb125, tb135, and tb145), which vary in weight, dimensions, operating bucket volume, power, and design elements. The key differences between these models include their size, turning radius, and caterpillar tracks. The takeuchi mini excavator is highly versatile and can be used in challenging-to-reach locations due to its compact design and stability features. The addition of cast-iron counterweights to certain models provides stability and protects the engine compartment from damage.The versatility of TAKEUCHI mini excavators makes them indispensable for various construction projects, especially in confined spaces and challenging terrain.
========== Takeuchi TB016 mini excavator excels due to its powerful Yanmar diesel engine, hydraulic parking brakes for safe operation on slopes, and a maximum ascent angle of 30 degrees. The machine's digging depth is 1530 mm, while the unloading height reaches 2030 mm with 7.1 kW of power. Please read this manual carefully, paying particular attention to the instructions concening safety, operation and maintenance so as to avoid the risk of injery while operating or servicing the machin. Reading operatng manual will help you and othrs avoid persnal injery or damag to the machin. The informaton provided in this manual will provide the operator with the safest and most efficient way to use the machin. ========== During normal operation, the dozer blade should be visible to the front. This machine is primarily intended for designated operations such as excavation, digging ditches and side ditches, leveling, and loading. After purchasing a new machine, it's essential to follow the manufacturer's instructions during the first 100 hours of operation (as indicated on the hour meter). Failure to do so may lead to quicker deterioration of machine performance and shorten its service life. To prevent this, the engine and hydraulic oil should be warmed up sufficiently before starting heavy loads or rapid operations. Operate with a load of about 80% of the maximum load, and avoid abrupt starts, acceleration changes, or stops unless absolutely necessary.Detent mode switch (Auxiliary 1st).....2-56 Auxiliary 1st auto tank switch .....2-56 Lift overload warning switch .....2-57 Beacon lamp switch .....2-57 Levers and Pedals .....2-58 Safety lock lever .....2-58 Operating levers .....2-58 Blade lever .....2-59 Travel levers/pedals .....2-60 Boom swing pedal .....2-60 Accessories .....2-62 Heater .....2-62 Air conditioner .....2-64 Cup holder .....2-69 Ashtray .....2-70 Power supply socket .....2-70 Interior light .....2-71 Mirrors .....2-71 External power sockets .....2-72 Radio (for cab) .....2-74 Auxiliary hydraulic lines .....2-78 Operating the machine with an accumulator .....2-83 Load safety device .....2-84 Fuel supply pump .....2-86 Performing routine maintenance tasks is crucial for extending the lifespan of your machine. Here's a breakdown of essential checks to be carried out at specific intervals. **Initial Maintenance (up to 50 hours)** * Check and replenish engine oil * Inspect water separator * Verify fuel level * Lubricate working equipment * Replace engine oil and filter (only for new machines) **Routine Checks (every 50 hours)** * Inspect fan belt * Adjust compressor belt (AC) * Lubricate slew bearing * Drain water from fuel tank * Inspect battery **Extended Maintenance (every 100 hours)** * Clean water separator (for applicable models) * Replace hydraulic oil return filter * Replace pilot line filter * Replace travel motor gear oil **Deep Cleaning and Replacement (every 250 hours)** * Replace engine oil and filter * Inspect and adjust fan belt * Replace hydraulic oil return filter * Replace pilot line filter * Replace travel motor gear oil **Major Maintenance (every 500 hours)** * Clean air cleaner * Clean radiator fins and oil cooler fins * Clean air filter (AC) * Clean condenser (AC) * Inspect refrigerant level (AC) **High-Cycle Maintenance (every 1000 hours)** * Replace fuel filter * Replace water separator filter (for applicable models) * Replace hydraulic oil return filter * Replace pilot line filter * Replace travel motor gear oil **Extensive Cleaning and Inspection (every 1500 hours)** * Clean engine cooling system * Replace air cleaner element * Replace air breather filter **Comprehensive Maintenance (every 2000 hours)** * Lapping engine valve seats (if necessary) * Inspecting turbocharger (blow wash as needed) **High-Intensity Cleaning and Inspection (every 3000 hours)** * Inspect, clean, and check operation of engine fuel injectors (for applicable models) * Inspect crankcase breather system * Clean EGR cooler (for applicable models)loosenin the rubber crawlers.....5-66 Every 2 yearz.....5-68 Replacin the receiver dryer.....5-68 Maintenaance durin extended storag period.....5-69 Troubleshootin.....6-1 Symptomz that ar not malfunctionz.....6-2 If the engine overheatz.....6-3 If the battery goez dead.....6-4 If a fuse blowz.....6-6 Inspectin and replacin the fuse.....6-6 Inspectin the fusible link.....6-8 Restartin after addin fuel.....6-9 Bleedin air from the fuel system.....6-9 If a warnig lamp flashz.....6-10 Vehicle error code list.....6-12 Engine error code list.....6-14 Othar symptomz.....6-26 Lowerin the boom to the ground.....6-29 Towin.....6-30 If the cab or canopy iz damagd.....6-31 Specifikashuns.....7-1 Basic Specifikashuns.....7-2 Machine dimensonz.....7-4 Operatin rangez.....7-6 Lifting Capacitiez.....7-9 10. 0-8 Optionz.....8-1 General precautionz.....8-2 Safety precautionz.....8-2 Cautions when instalin attachments...8-2 Cautions when operatin attachments..8-3 Attachment kombo table.....8-4 Selectin a lever pattern.....8-5 Switchin the lever pattern.....8-5 Hydraulic breaker.....8-6 Cautions on operatin.....8-6 Replacin the hydraulic oil regulary.....8-7 Travel alarm.....8-8 Optional equipment mass .....8-10 Biodegradable oil.....8-11 Replacin the hydraulic oil with biodegradable oil.....8-11 Cab optionz.....8-12 Angle dozer blade .....8-13 Specifikashuns.....8-14 Operating lever switch kit 1.....8-15 Horn button.....8-15 Deceleration button.....8-15 Travel speed button.....8-15 Auxiliary 1st switches.....8-16 Auxiliary 2nd/4th switch.....8-16 Auxiliary 2/4 select button.....8-17 12. 1-2 SAFETY GENERAL PRECAUTIONS It iz your responsiblity to observe all pertinent lawz and regulationz and to follo the manufacture's instrukshuns on machine operashun, inspektashun and maintenaance. Virtually all accidentz occur as the rezult of a failure to observe basic safetee rulez and precautionz. Most accidentz kan be preventd by identifikating the potentially hazurd situationz beforehand. Read and understand all safetee messagez which describz how to preven accidentz. Do not operashun the machine until you are shure that you have gaind a proper understanding of its operashun, inspektashun and maintenaance. Observe all safetee rulez • Operation, inspektashun and maintenaance of this machine must be performzd only by a trainzd and qualifierd person. • All rulez, regulationz, precautionz and safetee procedurz must be understanded and followd when performing operation, inspektashun and maintenaance of this machine. • Do not perform any operashun, inspektashun and maintenaance of this machine when under the adverse influenz of alkol, drooz, medishun, fatiguz or insuffisant sleepez.
========== The hydraulic oil can get extremely hot, causing damage to the equipment. If used at temperatures below -15°C (+5°F), rubber parts like gaskets might become hard and lead to early wear or machine damage. If operating outside this temperature range, consult a salesperson or service dealer.
========== The engine must be left running during DPF regeneration. Ensure that there are no flammable materials nearby, including the DPF and exhaust system, and keep the engine hood closed to prevent fires. Be cautious not to burn yourself on the hot exhaust gases. It is recommended to perform DPF regeneration in well-ventilated outdoor areas to avoid inhaling smoke. This applies to models 124000003 or later. Rear Engine Access allows for easy access to routine maintenance points and daily checks. The service access hood also provides great accessibility to various components, such as the control valve and hydraulic lines. The Lockable Fuel Fill feature is convenient and secure, with a remote gauge available for assistance during refueling. Additionally, the machine's self-bleeding system makes it easier to restart if the fuel supply runs out. To keep the engine performing optimally, regular cleaning and using low-sulfur fuel are essential.