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Takeuchi tl10 manual

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When using heavy machinery, always pay attention to safety alert symbols. They signal important information about staying safe. Read the message that follows the symbol carefully to avoid injuries or even death. The person in charge of the machine should make sure everyone knows how to use it correctly and safely. Before operating the machine, familiarize yourself with its functions and controls. Improper operation can lead to serious consequences. Always read this manual before using the machine, especially if you're new to it. Store this manual near the machine and get a new one if it's lost or damaged. Signal words in safety messages like "DANGER", "WARNING", and "CAUTION" indicate different levels of risk. DANGER means death or serious injury is possible, WARNING means medium-risk hazards, and CAUTION means low-risk hazards. If you're unsure about your machine's compliance with local regulations, contact a Takeuchi dealer for advice. It's crucial to exercise care when operating the machine. Follow standard safety procedures to avoid damage to yourself, others, and the machine itself. This manual covers operation, inspection, maintenance, and safety guidelines. If you have questions, reach out to Takeuchi sales or service.

1. Store the manual in its designated compartment, placed inside a plastic pouch. 2. Keep the machine name plate with serial numbers intact; note down the engine and machine numbers: Machine number: Engine number: 3. Understand the machine's designations: * Front, rear, left, and right refer to views from the operator's seat. 4. This machine is primarily used for hauling, leveling, and loading. Key Features: * Hydrostatic drive system * Tilt-up canopy and cab with ROPS/FOPS * Engine emergency stop system * Low engine noise and exhaust emissions * Electronic control of auxiliary hydraulic circuit 5. During the break-in period (first 100 hours), operate the machine carefully: * Warm up the engine and hydraulic oil. * Avoid heavy loads and rapid operations; operate with about 80% maximum load. 6. Notes on reading this manual: * The descriptions and diagrams may not apply to your specific machine. 7. Symbols used in this manual: Prohibition Lock Unlock Dashboard and Controls: * Seats: 2-12 + Includes seat belt, which is crucial for safety. * Optional 3-point seat belt: 2-13 + Designed to provide maximum protection in case of sudden stops or turns. * Instrument cluster: 2-14 + Displays essential information, such as engine speed and temperature. * Warning lamps: 2-14 + Alerts the driver to potential issues, ensuring prompt action is taken. * Indicators and meters: 2-15 + Essential for monitoring machine performance and vital systems. * Multi-data display: 2-16 + Offers detailed information on various parameters. Operational Controls: * Ignition switch: 2-22 + Responsible for starting the engine, which requires proper care and maintenance. * Engine shutdown switch: 2-22 + Used to safely shut down the engine when not in use. * Horn button: 2-22 + Essential for alerting pedestrians or other drivers of your presence. Optional Features: * Front and rear wiper switches (optional): 2-27 + Provide improved visibility during inclement weather conditions. * ECO/Power mode select switch: 2-28 + Allows the driver to optimize fuel efficiency and performance. Safety Features: * Parking brake switch (TL12 optional): 2-30 + Helps prevent unintended movement when parked. * Ride control switch (optional): 2-30 + Essential for maintaining optimal machine stability. Accessories and Additional Controls: * Levers and pedal: 2-32 + Critical components that require proper care and maintenance. * Safety Bar: 2-32 + Designed to provide additional protection during operation. * Throttle lever and pedal (optional): 2-32, 2-33 + Essential for controlling machine speed and performance. * Accessories like air conditioner, external power socket, interior light, mirrors, and radio (for cab optional): 2-34, 2-38, 2-39 Machine Operation: * Before starting operation: 3-1 + Requires a thorough understanding of the machine's capabilities and limitations. * Daily inspection: 3-2 + Essential for identifying potential issues before they become major problems. * Starting and stopping the engine: 3-3, 3-5 + Requires proper care to prevent damage or injury. Instructions for operating a machine are outlined in sections 3-7 to 3-26. The procedure begins with warming up the machine using hydraulic oil, followed by an inspection after warm-up. Traveling the machine and stopping travel are also covered in sections 3-9 and 3-10. Operating procedures, including prohibited operations and cautions on operating, are detailed in sections 3-12 to 3-17. Cautions on traveling on slopes are provided in section 3-18. Section 8 discusses possible operations with the machine, from parking to inspection and checks after stopping the engine. Handling the machine in cold climates is also outlined, including cautions after operations and handling rubber tracks. Prohibitions related to the machine's operation and transport are specified in sections 4-1 to 4-4. Maintenance requirements are detailed in section 5, starting with a general overview of maintenance procedures. A service data table for fuel and lubricants is provided in section 5-4, along with information on regularly replacing hydraulic oil and maintaining consumables. A list of tools required for maintenance is specified in section 5-8, including tightening torques for various components. Safety-critical parts are identified in section 5-10, followed by a maintenance list in section 5-12. Walk-around inspections are covered in sections 5-14 to 5-15, including inspecting the machine from various angles and from the operator's seat. A daily inspection schedule is outlined in section 5-16, involving checks on coolant, engine oil, water separator, fuel level, hydraulic oil tank level, and lubrication of working equipment. Additional maintenance tasks are specified for new machines after their initial 50 hours of operation, including replacing engine oil and the oil filter. Regular maintenance is crucial for your machine's optimal performance. Here's a schedule to follow: Every 50 hours: Inspect and adjust the fan belt. Inspect and adjust the compressor belt (AC) Check track tension Every 100 hours: Inspect battery fluid level, replenish as needed Inspect bucket stoppers (bolts/nuts), clean or replace if necessary Clean water separator Every 250 hours (new machines only): Replace travel motor gear oil Clean radiator fins and oil cooler fins Clean condenser (AC) Replace air cleaner element Every 500 hours: Check refrigerant level (AC) Replace engine oil, hydraulic oil return filter, pilot line filter, travel motor gear oil, fuel filters, bucket stoppers (bolts/nuts), and hydraulic oil Every 1000 hours: Clean engine cooling system Replace hydraulic oil, clean suction strainer Every 1500 hours: Inspect and adjust engine valve clearance Every 3000 hours: Inspect injector tip, EGR cooler, PCV valve, turbocharger, DPF, EGR system (when required) Replace bucket or attachment, windshield washer fluid, receiver drier Lubricate levers, inspect rubber tracks Annually: Tilt up the canopy (cab) During extended storage periods: Perform maintenance tasks as needed **Troubleshooting and Safety Precautions** ##### Common Issues * Engine overheating: Check for proper cooling system function. * Dead battery: Inspect connections and charging system. * Blown fuse: Replace with a new one of the same amperage rating. * Fusible link malfunction: Inspect and replace as needed. ##### Restarting after Maintenance * Ensure all safety checks are complete before restarting. * Bleed air from fuel system to prevent damage. * Check for warning lamp flashes, which may indicate a problem. ##### Vehicle Specifications and Options * Review machine dimensions, operating ranges, and available options. * Consult the manual for detailed specifications and guidelines. Operating guidelines for the machine include maintaining a temperature range between +15°C and +45°C to prevent overheating and engine oil degradation. Operating outside this range may lead to premature wear or damage. To ensure safety, personnel should wear proper clothing and protective equipment, such as hard hats, gloves, and safety glasses, and avoid wearing loose or oily clothing that can catch fire. Hearing protection is also necessary when operating the machine due to loud noises. A fire extinguisher and first aid kit should be installed and maintained, with personnel trained in their use. Safety equipment like guards, covers, and doors must remain in place and secured during operation. In addition, a signal person and flag person should be designated for particular jobs, and all personnel must understand the hand signals used. The operator must only respond to signals from the appointed signal person, but stop immediately if anyone gives a stop signal. Before standing up from the operator's seat, lower the bucket to the ground or engage the lift arm stopper to prevent sudden movement of the machine. • Before operating the machine, ensure all equipment is lowered to the ground and secured with the safety bar in place. Also, remove the key, lock the door and covers, and take it with you before leaving. • Keep away from fuel sources and hot surfaces while handling flammable materials or working on the fuel system. • Refill fuel or oil only when unattended by others and never leave the machine during these operations. • Regularly inspect for leaks and clean up spilled fuel or oil immediately to avoid accidents. • Store all solvents, dry chemicals, and flammable fluids in well-ventilated areas and follow manufacturer instructions. 1. **Mechanical Fire Prevention Guidelines***: This document outlines crucial steps to prevent fires and maintain equipment efficiency. 2. **Maintaining Charged Fire Extinguisher***: Always keep a charged fire extinguisher near the machine, knowing how to use it in emergency situations. 3. **Regular Cleaning and Inspections***: Regularly clean debris from side air intake areas, engine radiator, hydraulic oil cooler, and air conditioning condenser core. Blow off hot engine exhaust component accumulations at each shift or more often in severe conditions. Clean machine belly pans of combustible materials no less frequently than daily. 4. **Monitoring for Leaks***: Inspect the machine regularly for diesel fuel and hydraulic system leakage before starting up any equipment. Immediately clean grease, diesel fuel, hydraulic oil spillage and accumulation. 5. **Steam Cleaning and Safety Checks***: Steam clean engine and belly pan areas at least once a month or more frequently in severe conditions. Use nonflammable solutions for cleaning the machine and components. Daily inspect exhaust systems for leaks or damage, requiring immediate repairs if issues are found. 6. **Exhaust Leak Detection and Repair***: Be aware that exhaust leaks can cause fires and should be ignored at all costs. If an exhaust leak is detected during operation, shut down the machine immediately and not operate until repairs have been completed. 7. **Preparation for Machine Fire***: Prevent machine fires by ensuring all systems are functioning correctly. Stay vigilant and maintain a charged fire extinguisher nearby always. Ensure proper maintenance for your equipment by regularly inspecting and maintaining handheld fire extinguishers according to manufacturer instructions. Additionally, stay informed about local regulations regarding firefighting procedures. Keep vital contact information readily available in case of an emergency. In the event of a machine fire: 1. Lower any attachments and shut off the engine. 2. Exit the machine and call for help immediately. 3. Prioritize your safety and the safety of those around you, approaching the fire with caution. Before attempting to fight the fire, ensure it's small, not spreading rapidly, and you have a clear escape route. Also, confirm that you've received training on using available fire extinguishing devices and are confident in their operation. Remember, engine coolant, diesel fuel, or hydraulic hoses can fail during a fire, posing a risk of ignition. If uncertain about fighting the fire, prioritize your safety and wait for help to arrive. To effectively use a fire extinguisher: 1. Pull the pin, break the seal, and aim the nozzle at the base of the fire. 2. Release the pressurized agent by squeezing the handle. 3. Sweep from side to side until the fire is out or the extinguisher is empty. If unable to access the machine's compartment, discharge the extinguisher through available openings. Ensure the area is safe before leaving. After a machine fire: 1. Determine the cause of the fire and complete necessary repairs. 2. Replace or recharge any used fire extinguishers. 3. Notify relevant authorities once the situation has been brought under control. 1-10 Safety Precautions Always refer to the complete manual for specific safety guidelines. ##### General Precautions - Ensure good ventilation when operating the engine in an enclosed area. - Use approved ventilators, fans, exhaust extension pipes, or other venting devices if natural ventilation is not possible. - Avoid performing DPF regeneration in poorly-ventilated indoor spaces to prevent smoke generation. Handling Asbestos Dust: - Never use compressed air for cleaning. - Wear a respirator when handling materials containing asbestos and avoid brushing or grinding parts with asbestos. - Use a vacuum equipped with a high efficiency particulate air filter (HEPA) for clean-up. Working Indoors: - Install a ventilation system with a macromolecular filter. - Ensure authorized personnel only are present in the work area. - Follow environmental standards applicable to the work area. ##### Machine Safety Precautions - Be cautious not to get crushed or cut, and never put your hands, feet, or other parts between moving machine components. - Keep your arms and body inside designated side screens when operating lift arms. - Do not stand on or lean against the machine canopy/cab. Using Optional Products: - Consult with Takeuchi before installing optional attachments to ensure compatibility and safe use. - Use only approved Takeuchi attachments, as unauthorized use may compromise safety or affect machine performance. Product Usage Notes: - High-output brush cutter attachments can be used with specific equipment and cooling systems; pay attention to undercarriage damage. - Never modify the machine without authorization, as this may cause injury or death. The Takeuchi TL12 is a high-performance skid steer loader with impressive capabilities. With its powerful 3800 cc four-cylinder diesel engine and just 110 horsepower, it efficiently handles large payloads. The machine features an efficient cooling system and oil-cooled turbocharger, ensuring longer engine life and lower maintenance costs for its users. Its robust motor and quick-response hydraulics enable users to complete tasks faster. Key specifications include a maximum lifting capacity of 2833 lbs (1285 kg), bucket breakout force of 8660 lbs (3932 kg), and traction force of 13760 lbs (6241 kg). The machine also boasts an operating weight with cab of 11850 lbs (5375 kg) and hydraulic system pressure of 3046 psi (21.0 MPa). For those considering purchasing a Takeuchi TL12, it is essential to research the market price. Prices can vary depending on the model year, ranging from around \$33,000 for a 2013 model to over \$54,500 for a 2016 model. \$71,000, a 2020 model. The TL12R250 followed in 2021 at \$86,000, and the TL10V2 New made an appearance in 2022 priced at \$110,000. It's worth noting that these prices are subject to change and may not reflect current market values. The purpose of this comparison is not to disparage any brand but rather to assist potential buyers in making informed decisions. As with all major purchases, it's recommended to obtain approval from authorized dealerships before finalizing a purchase.