3803ZT

Compact Excavator

OPERATOR'S MANUAL

PART #918206

Revision E - 09/13

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Mustang 3803ZT Compact Excavator Operator Manual

Document type: Operator Manual (operation, controls, safety and routine maintenance)

Brand: Mustang

Models: 3803ZT

Machine: Compact Excavator

Publication No.: 918206 (Rev. E)

Edition date: September 2013

Language: English

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FIRE HAZARDS

The machine has several components that operate at high temperature under normal operation conditions, primarily the engine and exhaust systems. Also, the electrical system, if not properly maintained or if damaged, can arc or produce sparks. These conditions make it extremely important to avoid circumstances where explosive dust or gases can be ignited by arcs, sparks or heat.

The machine must be cleaned on a regular basis to avoid the buildup of flammable debris such as leaves, straw, etc. Accumulated debris, particularly in the engine compartment, poses a fire hazard.

Add fuel, oil, antifreeze and hydraulic fluid to the machine only in a well ventilated area. The machine must be parked with controls, lights and switches turned off. The engine must be turned off before refueling or service checks are performed.

Static electricity can produce dangerous sparks at the fuel-filling nozzle. In very cold, dry weather or other conditions that could produce static discharge, keep the tip of the fuel nozzle in constant contact with the filler neck of the fuel tank, to provide a ground. Make sure that the static line is connected from the excavator to the service truck before fueling begins.

Keep fuel and other fluid reservoir caps tight and do not start the engine until caps have been secured.

Do not smoke while filling the fuel tank, while working on the fuel or hydraulic systems, or while working around the battery.

Take care to avoid spilling combustible fluids, such as oil or fuel, on a hot engine.

Fire Extinguisher Recommendation

It is recommended that a 5 lb. (2.27 kg) or larger, multi-purpose “A/B/C” fire extinguisher be mounted in the cab. Check the fire extinguisher periodically and be sure that work crew members are trained in its use.

After the machine has been parked properly, shut down the engine and cycle all controls to release any remaining hydraulic system pressure. Be sure all switches and operating controls are in the OFF position and the left-hand console is raised, locking out the hydraulic functions.

ADDITIONAL SAFETY EQUIPMENT

Severe operation may require use of additional safety equipment

Work in mines, tunnels, deep pits or on loose or wet surfaces could produce the hazard of falling rock, roll over or falling objects.

Any operator protective system installed on the machine must comply with applicable safety standards and carry appropriate labeling and rating information. For example, the cab of an excavator used in applications with falling object hazards must meet Society of Automotive Engineers Standard SAE J1356, “Performance Criteria for Falling Object Guards for Excavators.”

Never attempt to alter or modify the protective structure, by drilling holes, welding or re-locating fasteners. Any serious impact or damage to the system requires a complete integrity re-evaluation, and the replacement of the system may be necessary.

Install additional safety equipment if conditions require.

When working with a hydraulic breaker, a front guard over the windshield may be required.

Laminated glass or polycarbonate protection for the front, side or rear windows may also be recommended depending upon particular work conditions.

Contact your dealer for available safety guards and/or recommendations if there is any risk of being hit by objects that could strike the operator’s cab.

Eye Protection and Safety Clothing

Wear full eye protection, ear and head protection, safety shoes, gloves and any other protective clothing or equipment as needed while operating the machine.

Safety Equipment Maintenance

Machinery guards and body panel covers must be in place at all times. Keep clear of rotating parts, such as cooling fan and alternator belts, which could catch hair, jewelry or loose clothing.

All safety equipment must be maintained so it is always in good condition.

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Seat Belt

WARNING

ALWAYS fasten the seat belt securely and properly. Never operate the machine without the seat belt fastened around the operator.

Keep the seat belt clean because dirt can impair seat belt operation. Check seat belt condition regularly and have damaged or worn belts immediately repaired by an authorized workshop.

After an accident the seat belt strap is stretched and must be replaced with a new strap installed by an authorized workshop.

Make sure the seat belt is not twisted when it is fastened, and that it is fastened over the hips and not the stomach.

Fasten the seat belt tightly and securely. Remove hard, edged or fragile objects from your pockets or clothes that might lie between the seatbelt and your body.

Fastening/Unfastening the Seat Belt

Fasten the seat belt around your hips and waist and insert tab (A, Figure 3-21) into buckle (B) until it clicks securely in place. Slack in the seat belt should automatically retract into seat belt spool (D).

Unfasten the seat belt by pressing button (C).

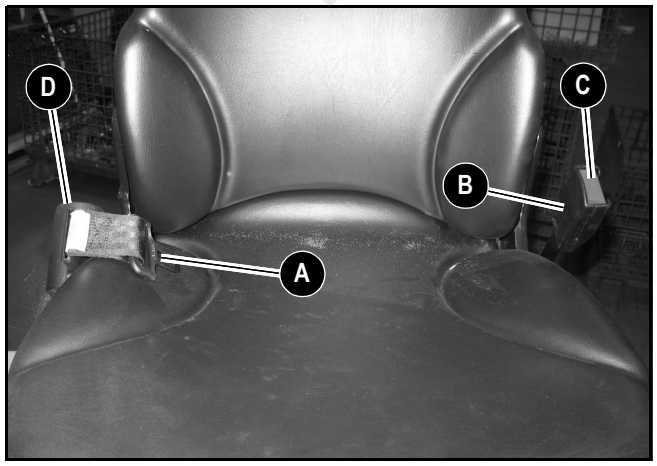


Figure 3-21 Seat Belt

Ventilation – Cab Only

Windshield

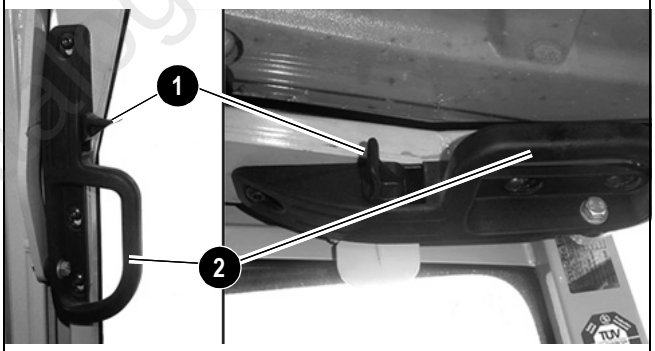
WARNING

When opening the windshield, be sure to lock both latches. When closing the windshield, keep hands on the handles and away from the path of the window.

Opening the Windshield

The windshield can be opened for ventilation. Squeeze/turn the latches (1, Figure 3-22) located at the upper corners of the windshield. Grasp the handles (2) and pull the windshield up until the latches lock in the open position.

Serial Numbers AE02348 and up



Serial Numbers AE02347 and before

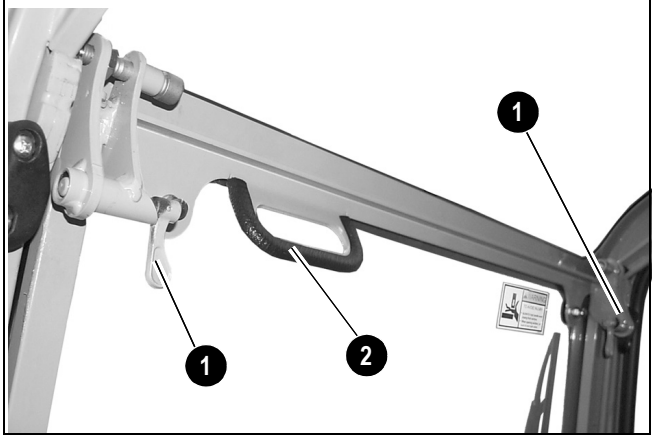


Figure 3-22 Windshield Latches

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MACHINE OPERATION

⚠ WARNING

- **Read and understand this entire manual. Follow warnings and instructions for operation and maintenance. Failure to follow instructions can result in injury or death.**
- **Read and understand all safety decals before operating the machine. DO NOT operate the machine unless all factory installed guards and shields are in place.**
- **Be sure you are familiar with all safety devices and controls before operating the machine.**
- **Know how to stop the machine before starting.**
- **Use only with approved accessories or referral attachments. Manitou Americas, Inc. cannot be responsible for safety if the unit is used with non-approved attachments.**
- **Check for correct function after adjustments or maintenance.**

Pre-Operation Checklist

IMPORTANT

See the table of recommended lubricants in "Fluid Capacities/Lubricants" on page 1-4 for the proper engine and hydraulic oil specifications. Only use lubricants specified in the table.

Check the following items at the beginning of each work day or every 12 working hours:

- Seat belt and mounting hardware
- Safety decals (replace as required)
- Air cleaner and intake hoses
- Engine coolant level and system for leaks
- Clean engine area of any flammable materials
- Engine oil level (Fill if required)
- Water drained from fuel pre-filter
- Hydraulic system for leaks
- Hydraulic fluid level (Fill if required)
- Pivot points lubricated and operating properly
- Track tension
- Windshield washer reservoir level (if cab installed)
- Broken and/or loose parts (Repair as required)
- Left armrest down in operating position
- Attachment safely locked on machine
- Engine cover closed
- Fuel level

IMPORTANT

Do not completely drain the fuel tank while running the excavator. If this happens, air will enter the fuel system, and the fuel system will have to be bled. Always completely fill the tank with fuel at the end of the working day.

⚠ WARNING

Never use ether starting aids. Glow plugs are used for cold weather starting. The glow plug can cause ether or other starting fluid to detonate, causing injury.

Engine Start and Stop

Note: *When all machine controls are stationary (no pilot control pressure), the swing motor and travel motor brakes are automatically applied. When any control is activated, the appropriate brake is automatically released.*

Note: *All hydraulic functions are locked out when the operator's seat left console is in the raised position.*

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Publication No.: 918206 (Rev. E) · Language: English · Edition: September 2013