350Z NXT2

Compact Excavator

Serial Numbers 00701 and Up

OPERATOR'S MANUAL

PART #50940260

Revision C - 07/18

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Mustang 350Z NXT2 Compact Excavator Operator Manual

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Sample pages follow. Full manual: machinecatalogic.com

Provide adequate ventilation when working in an enclosed area

Engine exhaust fumes are harmful to the human body and their inhalation is extremely hazardous. When starting the engine in an enclosed area, open the windows and doors for ventilation. Also do not idle the engine unnecessarily or leave the engine running while the machine is not in use.



Keep the cabin window clean

- Keep the surface of the cabin windows and the headlights clean for clear view.
- Make sure that your machine is equipped with headlights and all required working lamps, and that they work properly.

Fasten the seatbelt

- For your safety, ROPS (Roll-Over Protective Structure)/FOPS (Falling Objects Protective Structures) with a seatbelt is installed.
- Always fasten the seatbelt across the pelvic region and adjust snugly before you operate the machine.
  Never fasten a seatbelt across the abdomen.
- The seatbelt must be replaced after an accident.
- In addition the seat and seat mounting must be checked by your dealer after an accident has occurred.
- If the seat and seat mounting are damaged, they must be replaced.

ROPS/FOPS

- Never modify the structural member of ROPS/FOPS.
- If ROPS/FOPS is damaged, replace it immediately to prevent bodily injury.
  Never repair or modify it.

Caution for the protection of plants from hot wind

The hot wind of the high temperature is exhausted from the muffler and the radiator.
If this hot wind hits plants directly, they will die.
Give a cover board to protect plants from the hot wind when working near the arranging fence or plant.

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Handling high-pressure hoses

- Leaks of fuel and oil could cause a fire.
- Do not bend a high-pressure hose forcibly, or strike it with a hard object. Because abnormally bent or damaged piping, tubes, and hoses easily burst under high pressure, never use them.

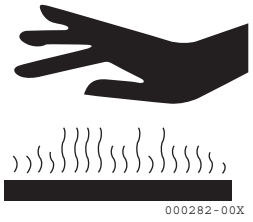
Be careful of hot oil under high-pressure

- The hydraulic system for the implement operates under high pressure.
  When replenishing or draining hydraulic oil, be sure to first relieve the high pressure.
- The emission of hot oil under high-pressure from a small leak could result in serious bodily injury. Wear safety goggles and thick gloves when checking for leaks. Use a piece of cardboard or a plywood block to detect emissions of hot oil.
  If the hot oil should contact your body, obtain prompt medical treatment.



Be careful when servicing systems under high temperature and high pressure

- The engine cooling water and each lube oil system are still under high temperature and pressure immediately after the engine has stopped. Removing caps, draining oil and water, or replacing filter elements at that time may cause a burn. Wait until the temperature drops, then begin servicing in accordance with the procedures described in this manual.
  For cleaning the inside of the cooling system, refer to Section "8.2 Nonperiodic services" on page 242.
  For checking the level of the cooling water and the hydraulic oil, refer to Section "8.3 Checking before start-up" on page 258.
  For checking the oil levels in various systems and replenishing the oil, refer to Section "8.3 to 8.5 Periodic services".
  For replacing the oils in various systems and replacing the filter elements, refer to Section "8.6 to 8.8 Periodic services".

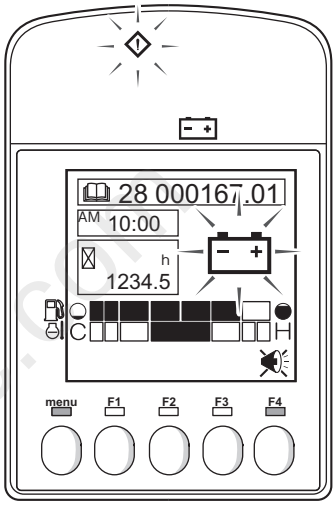


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If the caution lamp flashes and an error screen appears due to any error other than those described below, contact the nearest dealer as soon as possible.

Note:
For details of error codes, refer to Appendix Table "List of error codes displayed on LCD monitor" on page 307.

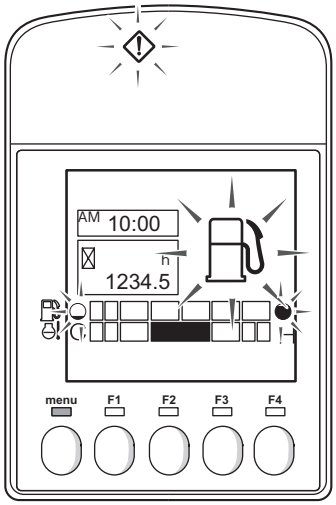
- **Battery charge alarm**
  If the battery is not being charged properly while the engine is running, the caution lamp flashes, the battery charge lamp lights up, the buzzer sounds intermittently and the battery icon is displayed flashing on the LCD screen.
  In such cases, carry out inspections according to Section "7.4 Troubleshooting" on page 212 as soon as possible.



046920-01X00

Note:
Press the F4 switch to stop the buzzer.

- **Fuel shortage alarm**
  When the amount of the fuel remaining in the fuel tank becomes low, the caution lamp and fuel meter flash and the fuel icon is displayed flashing on the LCD screen.
  In such cases, refill the fuel tank soon.



046921-01X00

Note:
This alarm is not accompanied by a buzzer tone or display of an error code.

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■ Checking the electrical equipment

⚠ CAUTION

If a fuse blows out frequently, contact your dealer for assistance.

Check fuses for damage, wiring for poor connections or short circuits, and battery terminals for corrosion or loose fits. Take corrective action.

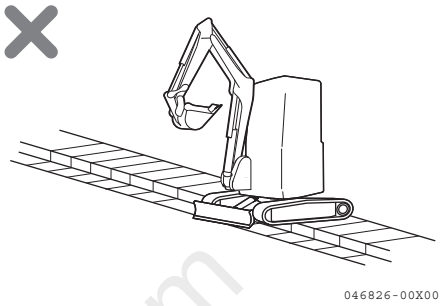
Check the following items after the starter switch is turned to the "ON" position.

- **Check the monitor functions**
  - Check the functions of LCD monitor (hour meter, water temp. meter and fuel meter).
  - Check LED lamps on the LCD monitor.
- **Check that all switches function correctly and lamps light correctly.**
  - Check the work lights.
  - Check the horn.
  - Check the auto deceleration function.
  - Check the eco mode function.
  - Check the wiper function. (for cabin)
  - Check the room lamp for lighting. (for cabin)
  - Check the heater function. (for cabin)
  - Check the air conditioner function (option)
- **Check the travel alarm function.**
  - To check the travel alarm function, push or pull the travel levers after the lock levers are unlocked.

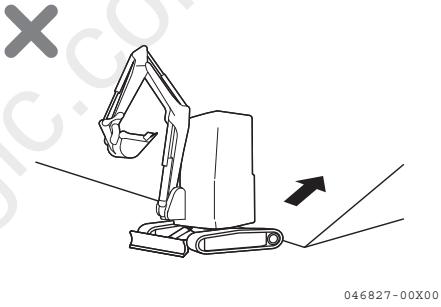
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• Keep the track in appropriate tension to prevent it from coming off.
If the tension is too low, the rubber track may come off under the following conditions.
Even if the tension is adequate, take care when operating the track.

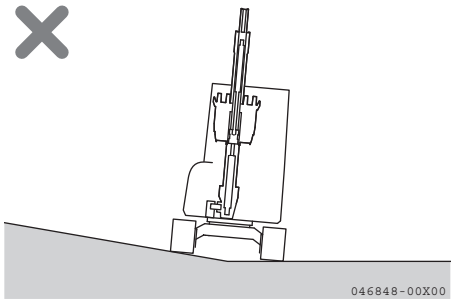
  • Do not steer the machine on a large level gap created by a curbstone or a rock [approximately more than 7.87 in. (20 cm)]. Run over a level gap at a right angle to prevent the track from coming off.



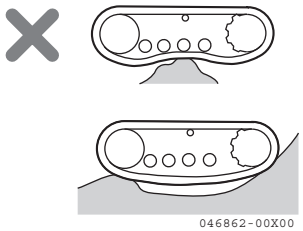
  • Do not steer the machine to a boundary between the flat ground and a slope while moving backward.
If such steering is not avoidable, slow down the speed.



  • Do not travel with the track at one end on a slope or on convex ground (at a machine inclination angle of approximately more than 10 degrees), with the track at the other end on flat ground, to prevent the rubber track from being damaged. Be sure to travel with the track at both ends on the same level surface.

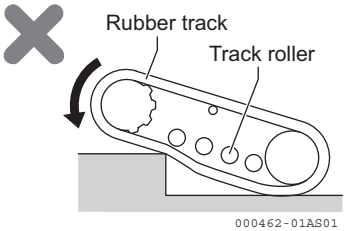


  • The three cases illustrated above are those which could cause the rubber track to loosen. In addition, do not steer the machine under such ground conditions as illustrated in the right figure.



[How the rubber track comes off]

• When running over a level gap, a clearance is created between the track and the track rollers. At this point, the track tends to come off.



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2.1 Oils, fuel, and cooling water

Oils

- Because the oil is used in the engine and implement under extreme conditions (high temperature and pressure), it deteriorates as time elapses.
  Be sure to use oils of the grades which are specified in the Operation & Maintenance Manual and suitable for the operating temperature range.
  Even if the oil is not contaminated, be sure to replace the oil within the specified service hours.

- Oil is equivalent to blood in a human body. Be careful in handling it so that impurities (water, metallic dust, and foreign solids) will not be mixed into it.
  Most machine failures are caused by impurities in the oils.
  Be careful not to mix impurities into the oils especially after storing the machine and replenishing oils.

- Do not mix oils of different makes and types.

- Use the specified amount of oil.
  Larger or smaller amounts of oil than specified may cause machine problems.

- If the oil becomes cloudy, it may suggest that water or air could have been mixed into the hydraulic system. If this event happens, ask your dealer.

- Be sure to replace the oil filter element with a new one when changing the oil.

- To know what condition the machine is in, it is recommended that you analyze the properties of the oil periodically.
  Ask your dealer for more information on this issue.

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Check and service points	Page

■ Every 50 hours

Greasing the swing gear and the swing bearing	259
Draining the water and deposits in the fuel tank	259

■ Every 100 hours

Cleaning the water separator element	260

■ Every 250 hours

Checking and adjusting the fan belt tension	261
Checking and cleaning the air cleaner	263
Checking and replenishing the lube oil for the travel reduction gearbox	265

■ Every 500 hours

Replacing the fuel filter	266
Replacing the engine oil and the engine oil filter element	268
Checking and cleaning the radiator and oil cooler fin	270
Replacing the air cleaner element	271
Replacing the hydraulic oil return filter element	272

■ Every 1000 hours

Replacing the lube oil for the travel reduction gearbox	273
Replacing the hydraulic oil and cleaning the suction filter element	275
Checking and adjusting the intake/exhaust valve clearances	Ask your dealer

■ Every 1500 hours

Checking and adjusting the fuel injection pump.	Ask your dealer
Checking, cleaning and testing the fuel injection valve.	Ask your dealer
Checking the crankcase breather system	Ask your dealer

■ Every 2000 hours

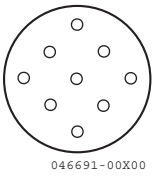
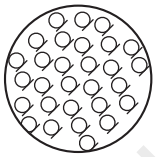
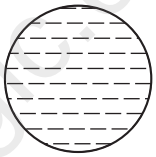
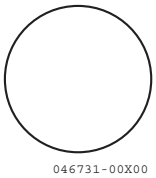
Checking the accumulator	278

■ Every 3000 hours

Checking, clean and testing EGR valve	Ask your dealer
Cleaning EGR lead valve	Ask your dealer

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Check list for the refrigerant quantity

Air conditioner condition	Normal	Abnormal		
Temperatures of high and low pressure pipes	Temperature difference is big. High pressure pipe : hot Low pressure pipe : cold Compressor discharge side temperature : 158°F (70°C) Compressor intake side temperature : 41°F (5°C)	High pressure pipe is warm and low pressure pipe is rather cool. Temperature difference is not so big.	There is almost no difference in temperature between high and low pressure pipes.	High pressure pipe is hot and low pressure pipe is rather warm. There is some difference in temperature between them.
Sight glass	Almost transparent. Even if air bubble flow is seen, it becomes transparent as the engine speed changes.  046691-00X00 *1	Air bubble flow is always seen. It is sometimes transparent or white.  046692-00X00	Flow of mist or the like is seen slightly.  046730-00X00	No air bubble flow is seen even cabin windows, idling engine, and rotating fan to the maximum.  046731-00X00 *2
Pipe connection	Normal	Some parts are contaminated by oil.	Some parts are badly contaminated by oil.	Normal
Refrigerant quantity	Refrigerant quantity is adequate and normal.	Refrigerant might leak in a small amount from some part.	Almost all refrigerant leaks and does not remain.	Refrigerant quantity is too large.

**1 :When the outside air temperature is low, air bubble might be seen even if the refrigerant quantity is adequate.*

**2 :When there is no refrigerant, no air bubble is seen, either. Therefore, be sure to check the difference in temperature between the high and low pressure pipes.*

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