170Z NXT2

Compact Excavator

Serial Numbers 00701 and Up

OPERATOR'S MANUAL

PART #50940308

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Mustang 170Z NXT2 Compact Excavator Operator Manual

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Prevent bumping the implements

- When traveling through tunnels or under bridges, or working at a site near other overhead obstacles, operate the machine carefully so as not to bump the boom, arm or the implement against those overhead obstacles.

Work only where visibility as good

- When working in a dark place, light up the area with the work lights and head lights, and prepare extra lighting equipment as necessary.
- Stop working when fog, snow or rain impedes your view.

Work carefully in a snow-covered areas

- Snow-covered ground and icy roads are dangerous as they may cause the machine to skid even on a slight slope. Run the machine at low speed, and never start, stop or turn abruptly on such ground or under such road conditions.
- Be careful removing snow as road shoulders or other hazards may be buried under snow.

Unstable ground creates a high possibility of overturn

- Keep away from cliffs, road shoulders or trenches if possible as the ground near them is unstable. The ground may crumble due to the weight or vibrations of the machine, resulting in an overturn or fall of the machine. Be particularly careful when working immediately after a rainstorm or after blasting as the ground may be unstable.
- Ground-fills or ground near a ditch may be unstable and may crumble due to the weight or vibrations of the machine, causing the machine to tilt. Much caution must be taken in working in these areas.
- When working in an area where there is a high possibility of falling rocks, wear a hard-hat and stay under the canopy.

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13. Operating Instructions

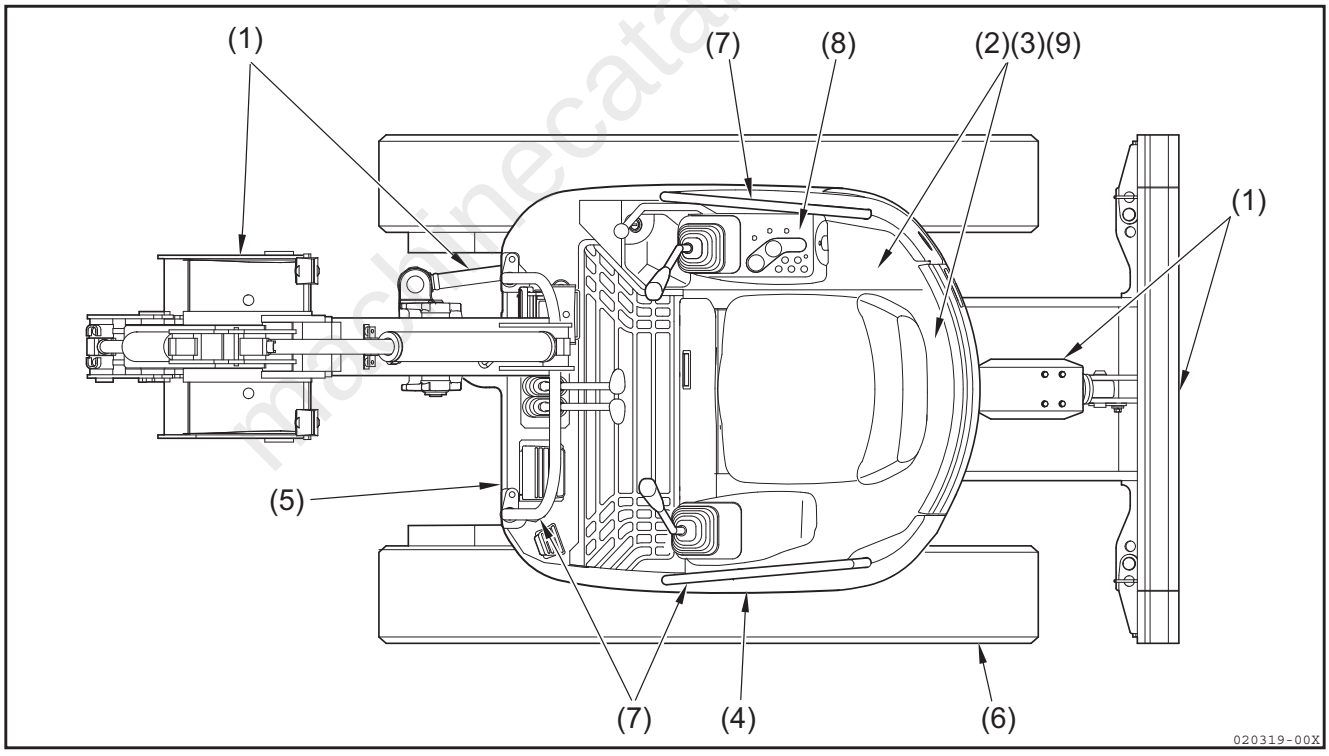
13-1. Checking before starting the engine

13-1-1. Walking check (visual inspection) around the machine

⚠ WARNING

- **If there are any combustibles in any heat build-up areas, or if there are any fuel and/or oil leaks, a fire can result.**
- **Check for possible fire causes carefully. If there is anything abnormal, be sure to take corrective action or contact your dealer.**

Before starting the engine, visually check the outside and underside of the machine as follows:
Check bolts and nuts for loose connections; check the fuel, oil, and water for leaks; and also check the implement and the hydraulic system to see that they are operating properly. In addition, check the electrical wiring for loose connections and for dust deposits in the heat build-up areas.
Check the following points before initial start-up for the day.



(1) Checking the implement, hydraulic cylinders, linkages, and hoses for damage, wear and loose connections

Check the implement, hydraulic cylinders, linkages, and hoses for damage, wear and loose connections. If any abnormality is found, take corrective action.

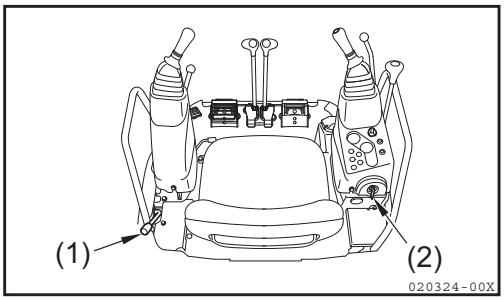
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13-2. Starting up the engine

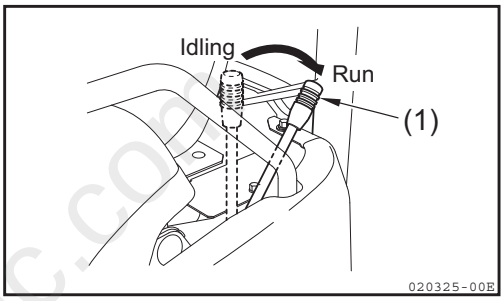
13-2-1. Normal start-up

⚠ WARNING

- **First check that there are no people or obstacles around the machine.**
  Then sound the horn and start the engine.
- **Be sure that you are seated on the operator's seat when starting the engine.**
- **When starting the engine in an enclosed place, be sure that there is adequate ventilation so that the exhaust gases can escape.**

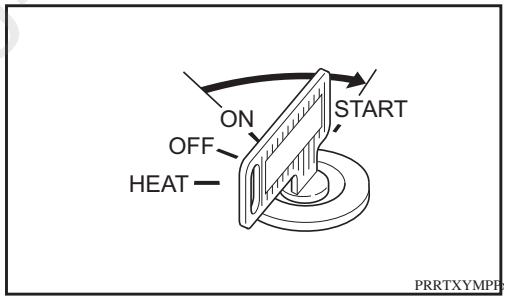


1) Pull the accelerator lever (1) back to the "RUN" position.



2) Set the starter switch key in the starter switch (2) to the "START" position. The engine will start.

3) After the engine has started, let go of the starter switch key.
   The starter switch key will return to the "ON" position by itself.



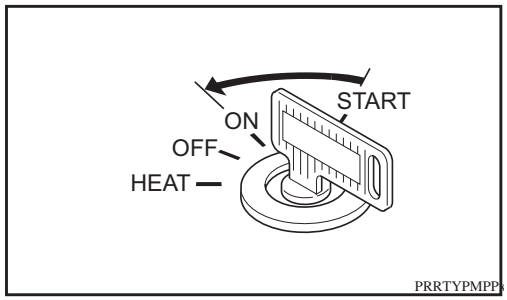
Note :

When the engine is warm, the engine can start up even if the accelerator lever is left in the "IDLING" position.

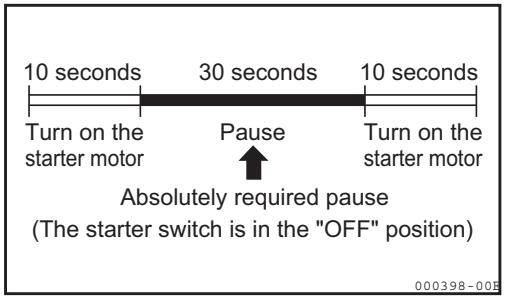
IMPORTANT

To protect the starter motor and the battery:

- **Do not keep the starter switch key in the "START" position for more than 10 seconds.**
- **If the engine fails to start, do not attempt to start the engine immediately again, but set the switch to the "OFF" position and wait for approximately 30 seconds, then start the engine again.**



The swing motor brake is engaged when the engine is "OFF", but is released when the engine starts.



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14. Transportation

14-1. Loading and unloading the machine

For safety in transporting the machine, comply with all applicable regulations and laws.

⚠ WARNING

- **Be careful when loading and unloading the machine, because it is a job of high hazard potential.**
- **Load or unload the machine on level, solid ground far away from the shoulder of the road.**
- **Load or unload the machine at a low engine speed.**
- **Load or unload the machine with the track gauge widened to the maximum.**
- **Never operate the track gauge change control lever while loading or unloading the machine.**
- **Use ramp plates of adequate strength having hooks. Check to see that the ramp plates are wide, long, and thick enough to safely sustain the machine so that you can load or unload safely. To prevent the ramp plates from bending too much, support them with blocks.**
- **Securely hook the ramp plates to the deck of the truck so that they will not come off.**
- **Remove mud, grease, and other slippery deposits from the track shoes, and grease, oil, and ice deposits from the ramp plates to prevent the machine from skidding.**
- **Never change the travel direction on the ramp plates. If you need to change the travel direction, go back down the ramp plates, then do this.**
- **Swing slowly when on the truck bed, if it becomes necessary to do so, since the machine's position will be unstable.**

To load or unload the machine, be sure to use the ramp plates and follow the procedures outlined below.

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17-4. Troubleshooting

17-4-1. Engine and electrical equipment

- Contact your dealer for assistance, regarding the measures indicated in parentheses in the list below.
- If any abnormalities or troubles are encountered that are not included among those shown below, ask your dealer for assistance.

Trouble		Cause	Measure
Engine	Steam comes out of top of radiator.	• Shortage of cooling water	• Check cooling water level. Refill, if necessary. (Check cooling water for leak from water port.)
	Water temperature alarm lamp lights.	• Loose fan belt	• Adjust belt tension.
		• Buildup of dust and water scale on cooling system	• Replace cooling water. Clean inside of cooling system.
		• Defective thermostat	• Replace thermostat.
		• Clogged radiator fin or inclined fin	• Clean or repair fin.
		• Defective electrical system	• Check or replace electrical system.
	Turning on starter motor does not start engine.	• Shortage of fuel	• Refill fuel tank.
		• Air mixed in fuel system	• Repair air leak. • Release air from fuel system.
		• Defective fuel injection pump or deteriorated nozzle performance	(• Replace pump or nozzle.)
		• Improper compression	(• Check and repair.)
		• Blown out fuse	• Replace fuse.
		• Damaged starter switch key stop solenoid. Link disengagement	(• Check and repair.)
	Dark fumes come out of machine.	• Clogged air cleaner element	• Clean or repair element.
		• Deteriorated nozzle performance	(• Check and repair.)
		• Improper compression	(• Check and repair.)
	Fume color is white or bluish white.	• Too much oil in oil pan	• Drain oil from oil pan up to specified level.
		• Improper fuel	• Replace fuel with recommended one.
		• Worn cylinder or piston ring	(• Repair.)
Electrical equipment	Turning starter switch to "START" dose not start starter motor.	• Defective wiring system	• Check and repair wiring system.
		• Defective starter switch	• Replace starter switch.
		• Insufficiently charged battery	• Recharge battery.
		• Defective starter motor	(• Check and repair.)
	Maximum engine speed does not provide enough brightness of lamps.	• Defective wiring system	• Check terminals for looseness and disconnection. Repair terminal, if necessary.
		• Defective generator or regulator	(• Check and repair.)
	During engine operation, lamp is extremely bright, and frequently burns out.	• Defective regulator	(• Replace regulator.)
	Electrolyte leaks from battery.	• Defective battery	(• Replace battery.)
	Speed of starter motor is too low.	• Defective wiring system	• Check and repair wiring system.
		• Insufficiently charged battery	• Recharge battery.
		• Defective starter motor	(• Check and repair.)

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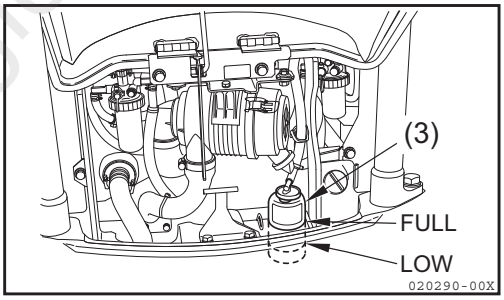
8) After flushing with running water, stop the engine, drain the cooling system completely and then install the drain plug (P).

9) Pour water mixed with anti-freeze into the water supply port of the radiator, to fill it up.

10) To bleed air, idle the engine for 5 to 6 minutes and then run the engine without load at high speed for 5 to 6 minutes. (While running the engine, keep the radiator cap (2) removed.)

11) Approximately 5 minutes after stopping the engine, pour water mixed with anti-freeze up to the water supply port of the radiator, and install and tighten the cap.

12) Drain the cooling water from the sub-tank (3), wash the inside of the sub-tank (3) and pour water mixed with anti-freeze up to the "FULL" level.



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25-10-2. Checking and adjusting the intake/exhaust valve clearances

Ask your dealer about checking and adjusting.

25-10-3. Checking and adjusting the fuel injection valve

Ask your dealer about checking and adjusting.

25-10-4. Retightening the cylinder head bolts

Ask your dealer about retightening.

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Full Version Available

Mustang 170Z NXT2 Compact Excavator Operator Manual

Mustang 170Z NXT2 compact excavator operator manual, pub. 50940308 Rev. B: safety, controls, daily checks, service intervals. Instant PDF download.

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