CHAPTER 5 - OPERATING INSTRUCTIONS

BEFORE OPERATING THE EXCAVATOR

> **⚠ WARNING**
> Do not attempt to operate this excavator unless you have first read and perfectly understand the safety messages and instructions appearing in this manual.

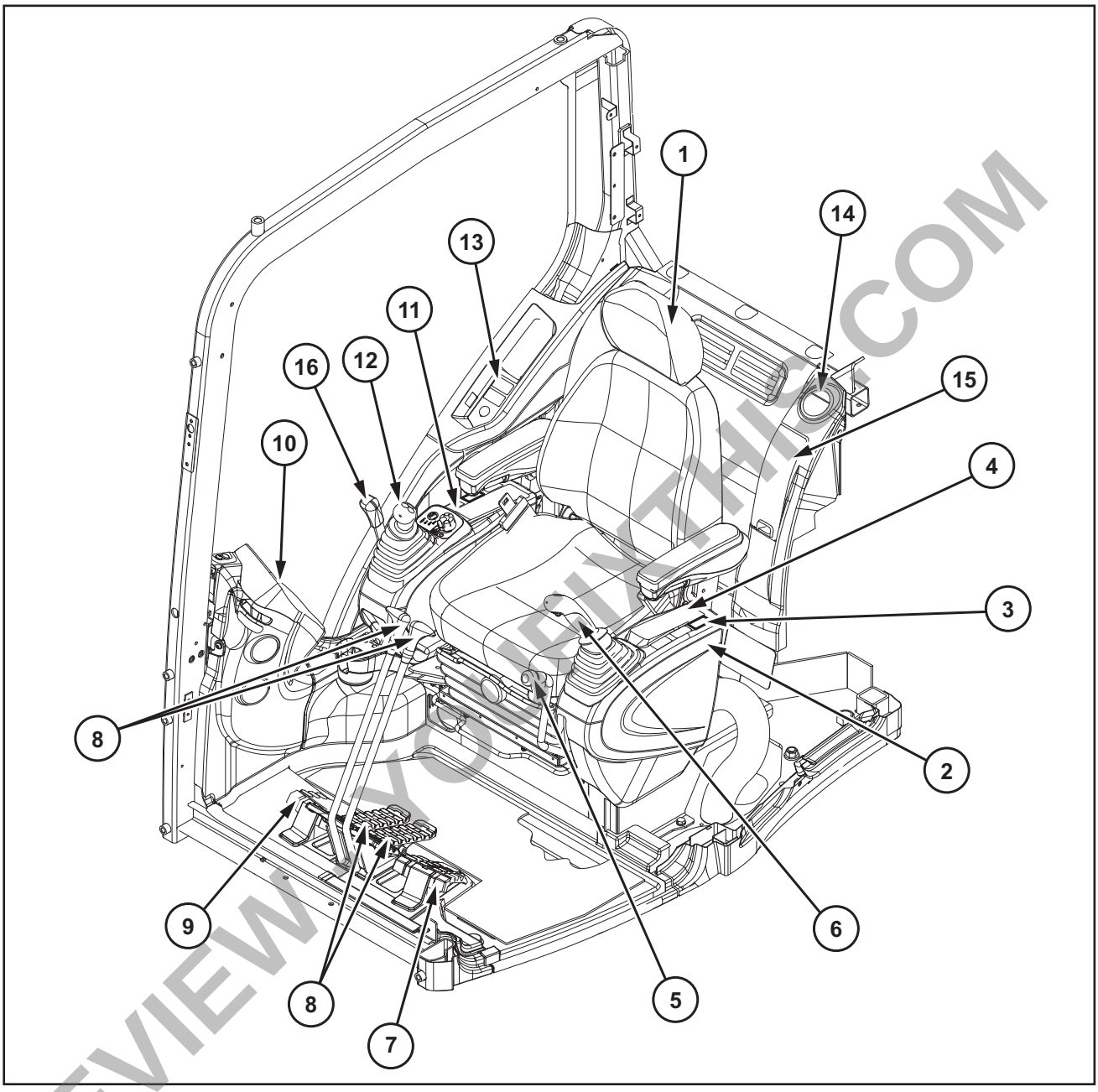
Before operating this excavator, be sure to do the following:

1. Check the level of all fluids (engine oil, hydraulic fluid and coolant) and make sure the fluids and lubricants are suitable for prevailing conditions. See Lubrication/Filters/Fluids section (Page 7-1) and Operating The Excavator In Cold Weather section (Page 5-11).
2. Carry out the daily maintenance operations. See Servicing Intervals section (Page 6-1).
3. Inspect the excavator, look for any signs of possible leakage and check the hoses. Tighten or replace as necessary. See Maintenance/ Adjustments section (Page 8-1).
4. See Run-in Period section if the excavator is new or if the engine has been reconditioned.
5. Check the track assemblies. See Tracks in the Maintenance/Adjustments section (Page 8-1).
6. Clean the steps and access handles. Grease, oil, mud or ice on the steps and access handles can causes accidents. Make sure they are kept clean at all times.
7. Clean or replace any decals which are illegible. See Decals in the Safety/Decals/Hand Signals section (Page 3-1).
8. Make sure the engine hood and the side doors are properly closed and latched.
9. Secure the cab door in either fully closed or fully opened position.
10. Remove any obstructions which hinder visibility. Clean the windshield, the windows and the rear view mirrors.
11. Check that no tools or other items have been left on the excavator including on the undercarriage or the upperstructure and in the cab.
12. Make sure nobody is on or under the excavator. The operator must be alone on the excavator.
13. Make sure nobody is standing in the excavator working area.
14. Find out about current safety measures in use on the work site.
15. Work out a convenient means of escape from the excavator (emergency exit via the windshield, the rear window glass) in the event of the cab door being jammed or the excavator turning over. See Windshield in the Controls/Instruments/ Accessories section (Page 4-29).
16. Before undertaking any travel or working operations during hours of darkness, make sure the lighting and signaling equipment is fully operational.

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POSITION OF THE CAB CONTROLS AND ACCESSORIES



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6	LEFT-HAND CONTROL LEVER	14	AIR VENTS
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8	TRAVEL CONTROL PEDALS AND LEVERS	16	BLADE CONTROL LEVER (BLADE TYPE)

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Intervals

KEY					
⧖	△	▲	☑	○	●
Intervals in hours	Clean	Replace	Check	Grease	Drain/Bleed

⧖	Note	Item	Service points	Number of points	Action	Refer to page
10	(A)	(1)	Engine oil level	1		7-9
		(2)	Coolant level	1	☑	7-11
		(3)	Hydraulic reservoir level	1		5-20
		(4)	Fuel tank sediment draining	1	●	7-13
		(5)	Radiators and oil coolers	2		8-5
		(6)	Fan/alternator belt tension	1	☑	8-6
		(35)	Blade (with blade)	6		6-2
		(52)	Bucket	2		7-5
		(53)	Attachement (EMS) (except bucket)	15		7-5
50		(7)	Hydraulic system lines	-	☑	5-20
	(C)	(8)	Air conditioning filters	1	△	8-11
		(10)	Batteries charge state	2	☑	9-4
		(35)	Blade (with blade)	6	○	7-6
		(48)	Tracks	2	△ ☑	8-1
250	(D)	(9)	Bucket	2	○	7-5
		(11)	Swing reduction gear level	1		7-24
		(12)	Travel reduction gears level	2	☑	7-29
	(E)	(13)	Tightening of clamps, of radiator hoses	-		7-11
		(14)	Fuel pre-filter filter element	1	▲	7-13
		(15)	Hydraulic reservoir water and sediment draining	1	●	5-20
	(F)	(16)	Air filter outer element	1	△ ☑	7-26
	(G)	(17)	Shoe bolt torque	-		8-1
		(18)	Track rollers and idler wheels	-		8-4
		(19)	Fan/alternator belt tension	1	☑	8-6
	(G)	-	Cab protection	1		4-39
		(20)	Screw and nut tightening torque	-		8-14
		(54)	Batteries	2	▲	9-4
		(55)	Batteries electrolyte level	2	☑	9-4 8-14
500		(5)	Radiators and oil coolers	2	△	8-5
		(22)	Turntable bearing	2	○	7-5
		(23)	Turntable teeth	1		7-5
		(24)	Engine oil	1	▲	7-9
		(25)	Engine oil filter	1		7-9

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CHAPTER 11 - SPECIFICATIONS

ENGINE

Make	ISUZU
Type	AM-4HK1X
Number of cylinders	4
SAE net horsepower	160 HP (119.3 kW) @ 1,800 rpm
Displacement	316.9 cu in (5.19 L)
Maximum Torque	458 lbf-ft (621 N-m) @ 1,500 rpm
Starter	24 V-5.0 kW

ELECTRICAL SYSTEMS

Circuit	24 volts
Battery	92 amp hours
Alternator	50 amp

HYDRAULIC SYSTEM

Open-center system, two variable displacement axial piston pumps and one gear pump for pilot controls, main control valve with one 4-spool valve and one 5-spool valve with auxiliary spool - stackable, auxiliary control system, oil cooler, auto power boost, boom and arm holding valves, 6 micron return filter, firewall.

Main pump max flow	2 x 55.7 gpm (2 x 211 l/min)
Pilot pump max flow	4.8 gpm (18 l/min)
Blade pump max flow	19.3 gpm (73.1 l/min)

RELIEF VALVES PRESSURES:

Boom/Arm/Bucket	4970 psi (34.3 MPa)
In Power Boost Mode	5330 psi (36.8 MPa)
Swing	4260 psi (29.4 MPa)
Travel	4970 psi (34.3 MPa)
Blade (with blade)	2990 psi (20.6 MPa)

HYDRAULIC CYLINDERS:

	Bore x Rod x Stroke
Boom	5" x 3" x 4’ 6"
Arm	6" x 4" x 4’ 9"
Bucket	5" x 3" x 3’ 4"
Blade (with blade)	5" x 3" x 10"

HYDRAULIC OIL FILTRATION:

Return filter	6 micron
Pilot filter	8 micron
Suction screen	105 micron

SWING:

Fixed flow, piston-type pump.

Upperstructure swing speed	0 - 11.8 rpm
Tail swing	5' 10" (1.79 m)
Swing torque	47,200 lbf-ft (64,000 kN-m)

TRAVEL:

Variable flow hydraulic motors with axial pistons. Planetary reduction gears.

Two speeds controlled from the instrument panel.

Low speed	0 to 2.0 mph (0 to 3.2 km/h)
High speed	0 to 3.1 mph (0 to 5.0 km/h)
Drawbar pull	45,200 lbf (201 kN)
Drawbar pull (blade type)	45,000 lbf (200 kN)

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OPERATING THE EXCAVATOR

> **⚠ WARNING**
> Check all controls and safety devices in a safe, open area before starting work.

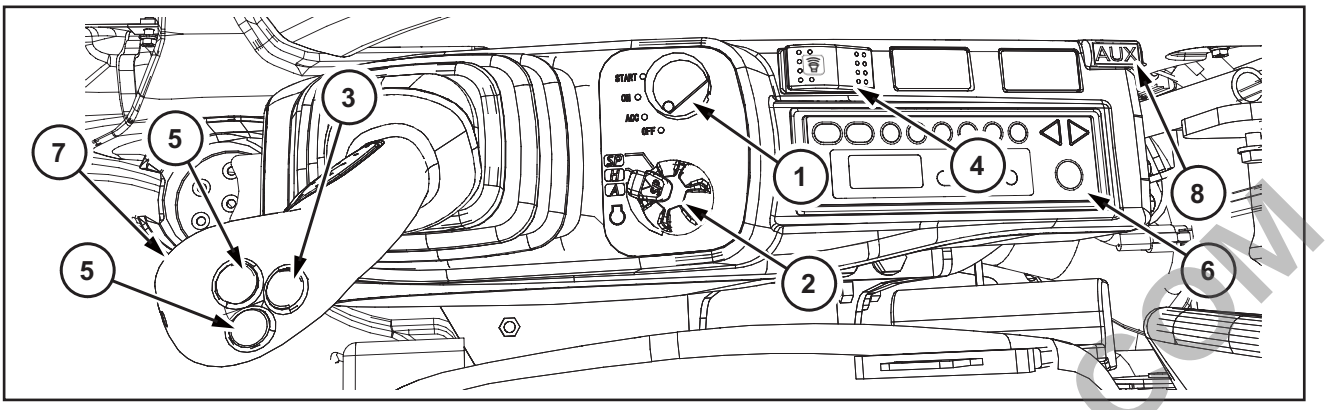
When operating the excavator, be sure to do the following:

1. When starting the engine, be sure to use the correct procedure for the prevailing weather conditions. See Starting the engine (Page 5-5).
2. Regularly consult the hourmeter to ensure all servicing operations are carried out punctually. See Servicing Intervals sections (Page 6-1).
3. If you use your excavator in particularly harsh conditions, the servicing intervals should be reduced accordingly.
4. Take note of the locations of pipes and cables before starting work.
5. Do not work near overhead high-voltage electric lines without checking beforehand that all necessary measures have been taken to respect the safest distances:
   Less than 57000 volts: 13.12 feet (4 meters)
   57000 volts or more: 16.40 feet (5 meters)
6. Always know where any buried lines are and that they are properly marked. See Utility Safety section (Page 3-2).
7. When working on a public highway, use standard traffic signs and consider the working range of the upperstructure and its attachments.
8. Never operate the working or travel controls unless you are properly seated in the operator's seat with the seat belt correctly fastened.
9. Modify your operation to suit the type of work and working conditions. See Operating instructions in the Job Site Operation section (Page 5-1).
10. Do not allow anyone within the excavator's operating radius. Stop all operations until everyone has moved away.
11. Operate all controls gradually to ensure smooth excavator operation.
12. See Operating In Water section (Page 5-15) if the excavator will be standing in water during use.
13. See Transporting The Excavator section (Page 10-1) when driving the excavator onto a trailer.
14. See LIFTING THE EXCAVATOR section (Page 10-7) when it is necessary to lift the excavator.
15. In some configurations, the working range of the attachment allows the tool to interfere with the excavator. Always maintain a safe minimum distance between the tool and the excavator.
16. Never use the attachment for sweeping the ground to level out rubble or push objects (transversal stress on the attachment).
17. Avoid running the engine in a confined space. If there is no alternative, proper ventilation must be provided at all times.
18. Dust, smoke or mist can reduce visibility and cause an accident. Reduce speed or come to a complete halt until visibility has improved.
19. In the event of an operation problem or failure, move the excavator to a safe place, lower the attachment to the ground, shut down the engine and remove the starter switch key. Locate the problem, report it if necessary and take the necessary steps to warn others not to attempt to operate the excavator.
20. Do not stop the engine without taking prevailing weather conditions into consideration. See Stopping the engine (Page 5-7).
21. See Parking the excavator (Page 5-15) when you have to park the excavator.
22. Whenever load handling operations are to be carried out, it is imperative to adhere strictly to the instructions given in this manual. See Load handling (Page 5-18).
23. When traveling with a hydraulic breaker (optional), make sure it is not too close to and not pointing in the direction of the cab.

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RIGHT-HAND CONTROL ARM



1E8B280D

Figure 10

1. Starter Switch
   This switch has four positions, ON (contact), START (engine ignition), OFF (engine shut-down), and ACC (accessory current supply). See Starting the engine in the Operating Instructions section.
   This key is also used to lock the cab door, the engine hood, the side doors, and the fuel tank cap.
2. Engine Throttle Button
   For more details, see Engine Throttle Controls.
   If there is no change in engine speed, press and release the engine auto-idle speed selector. See item 10 for more details on the One-touch idle speed selector.
3. One-touch Idle Speed Selector
   This control enables engine idle without operating the throttle button. For engine idle, press and release the control and the engine will be in LOW IDLE position. Press once again on the control and release it. The engine returns to its initial speed.
4. Travel Alarm Switch
   This two position switch has "CONT." which sounds the travel alarm on continuously, and "AUTO OFF" which will sound the travel alarm for 10 seconds then go off. Each time you stop travelling the alarm will reset and the travel alarm will sound for 10 seconds when you travel the excavator again.
5. Optional Controls
   These buttons are pre-wired for use with optional auxiliary controls. For more details see Option Controls.
6. Radio
   For more details see the Cab radio section.
7. One Touch Wiper Button
   The button on the bottom of the control lever when pressed will activate the window wiper to move once over the window.
8. Radio Auxiliary Input Port
   This radio provided AUX input jack so that portable audio products can be connected.

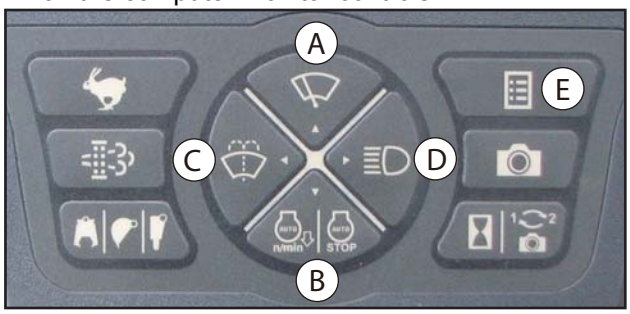
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MAINTENANCE INFORMATION SCREEN

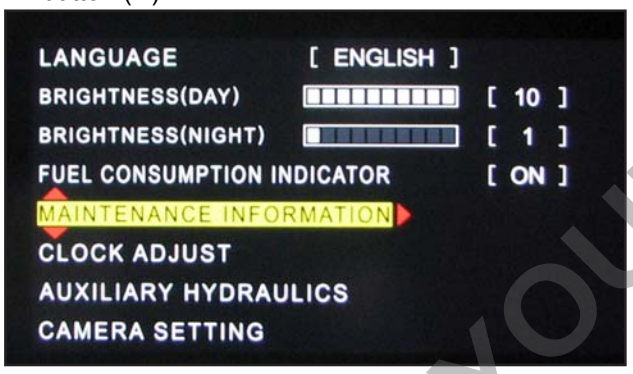
The excavator can keep track of the amount of hours since the last service.

1. To access the screen, press the menu button (E) on the computer monitor controls.



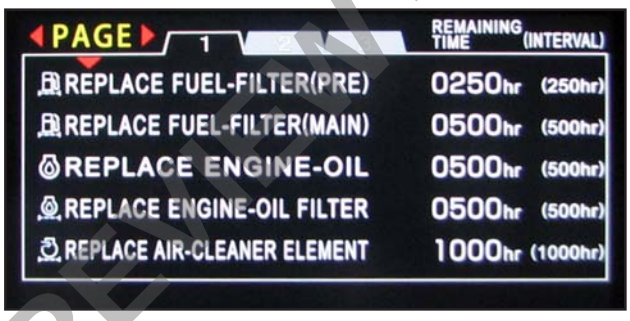
4094F633 Figure 3

2. Press the button (B) to scroll down to the MAINTENANCE INFORMATION and press the button (D).



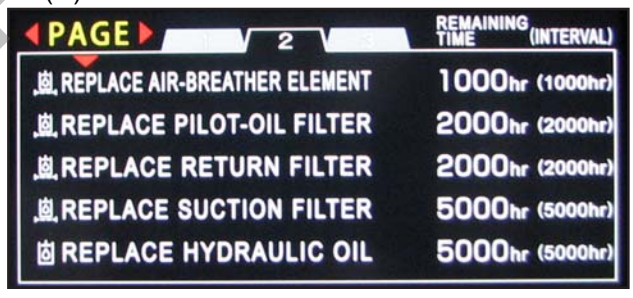
4F38B3FD Figure 4

3. This will show the first of three screens of maintenance intervals.

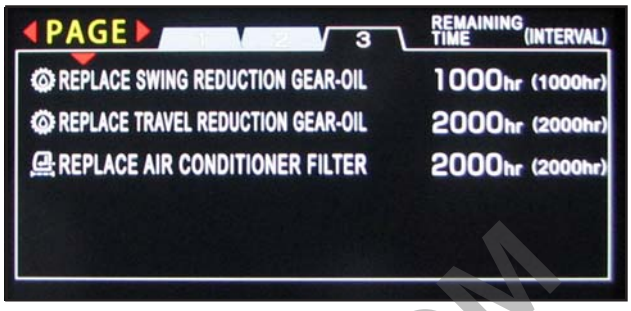


5FA8677C Figure 5

To scroll through the pages press the button (C) or (D).

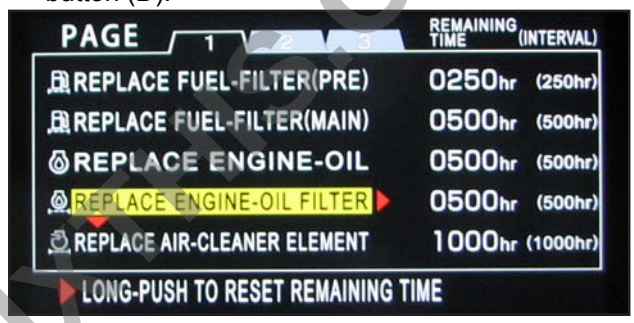


91CC55C3 Figure 6



A9F5C510 Figure 7

4. To reset a service interval, scroll down to the task that has been completed and press and hold the button (D).



BE46E79A Figure 8

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WEIGHTS

With monobloc boom, 9' 8" (2.94 m) dipper, 237.8 gal (900 liters) backhoe bucket, 2' 7" (800 mm) pads, operator and full fuel tank	No blade	56,000 lbs (25,400 kg)
With monobloc boom, 9' 8" (2.94 m) dipper, 237.8 gal (900 liters) backhoe bucket, 2' (600 mm) pads, operator and full fuel tank	Blade	56,900 lbs (25,800 kg)

UNDERCARRIAGE

SPECIFICATIONS PER TRACK ASSEMBLY

Number of upper rollers		2
Number of lower rollers	No blade	8
	Blade	7
Number of track pads	No blade	49 per side
	Blade	46 per side
Type of track pads		Triple grouser
Width of standard track pads	No blade	2' 7" (800 mm)
	Blade	2' (600 mm)
Ground pressure	No blade	6 psi (0.040 MPa)
	Blade	8 psi (0.058 MPa)
Gradeability		70 %

CAPACITY OF SYSTEMS AND COMPONENTS

Hydraulic tank	30 gal (114 liters)
Hydraulic system	67 gal (252 liters)
Final drive (each)	1.3 gal (5 liters)
Swing Drive	1.3 gal (5 liters)
Engine oil (with filter change)	6.1 gal (23.1 liters)
Fuel tank	85 gal (320 liters)
Cooling system	8.2 gal (30.9 liters)

ATTACHMENT

Boom	18' 8" (5.70 m)
Arms	7' 10" (2.40 m), 9' 8" (2.94 m)

DIGGING FORCE

7' 10" (2.40 m) arm	27,650 lbf (123 kN)
with auto power boost mode applied	29,670 lbf (132 kN)
9' 8" (2.94 m) arm	23,160 lbf (103 kN)
with auto power boost mode applied	24,730 lbf (110 kN)
Bucket digging force	31,920 lbf (142 kN)
with auto power boost mode applied	34,170 lbf (152 kN)

NOTE: Digging force ratings are based on ISO 6015, "Earthmoving Machinery - Hydraulic Excavators - Tool Forces".

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	THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN THIS SYMBOL IS USED, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF DEATH OR SERIOUS INJURY.

Safety Decals on this excavator use the words **Danger, Warning, or Caution,** or Caution, which are defined as follows:

- **DANGER**: Indicates an immediate hazardous situation that, if not avoided, will result in death or serious injury. The color associated with Danger is RED.
- **WARNING**: Indicates a potentially hazardous situation that, if not avoided, could result in serious injury.The color associated with Warning is ORANGE.
- **CAUTION**: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.



IMPROPER OPERATION OF THIS EXCAVATOR CAN CAUSE DEATH OR SERIOUS INJURY.
BEFORE USING THIS EXCAVATOR, MAKE CERTAIN THAT EVERY OPERATOR:
Is instructed in safe and proper use of the excavator.
Reads and understands the Manual(s) pertaining to the excavator.
Reads and understands ALL Safety Decals on the excavator.
Clears the area of other persons.
Learns and practices safe use of excavator controls in a safe, clear area before operating this excavator on a job site.
It is the operator's responsibility to observe pertinent laws, regulations and follow the LBX Company, LLC instructions on excavator operation and maintenance.

LBX Company reserves the right to make changes in the specification and design of the excavator without prior notice and without incurring any obligation to modify units previously sold. The description of the models shown in this manual has been made in accordance with the technical specifications known as of the date of design of this document. All data given in this manual is subject to production variations. Dimensions and weights are provided with approximate values and the excavator fitting shown in the illustrations may not correspond with standard models.
For precise information on specific excavator models and versions, please contact your LBX Company Dealer.
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CALIFORNIA

PROPOSITION 65 WARNING

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

Battery post, terminals and related accessories contain lead and lead compounds. Wash hands after handling.

666F8E67

Figure 2

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