



**Bobcat®**

EN

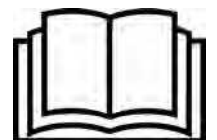
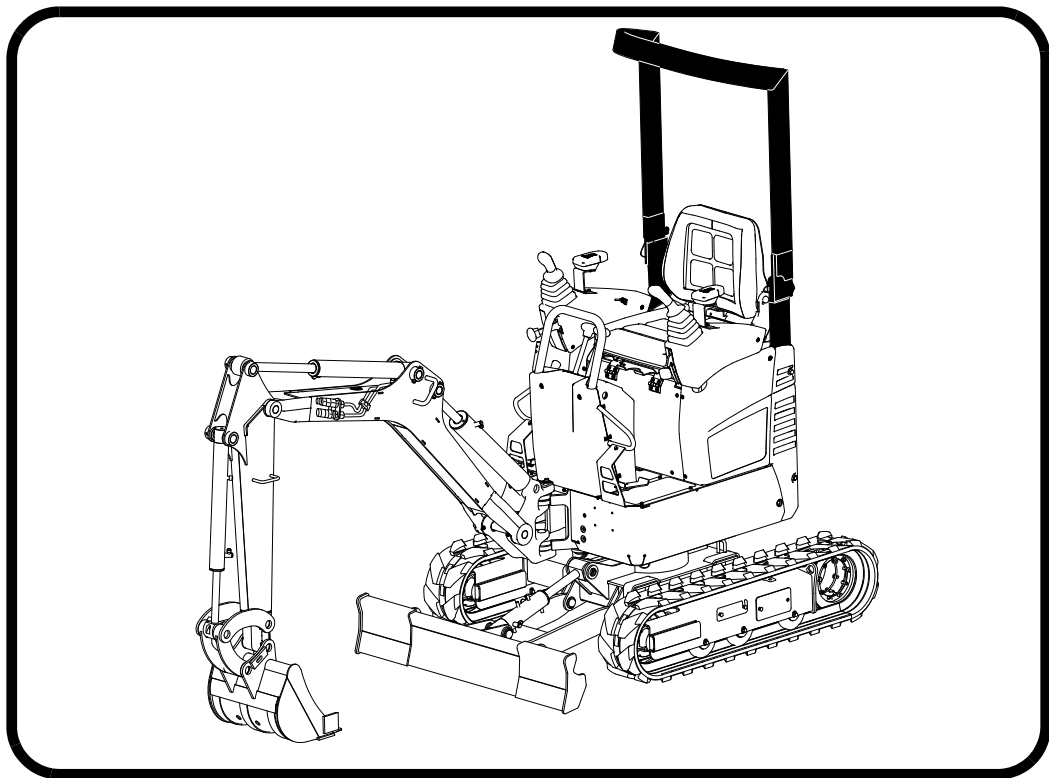
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# Operation & Maintenance Manual

## E10 Compact Excavator

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**S/N A33P11001 & Above**





# OPERATOR SAFETY WARNING



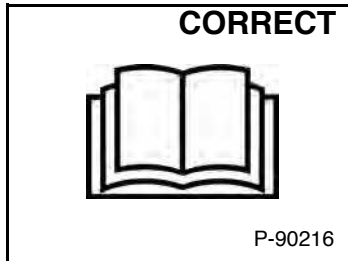
## WARNING

Operator must have instructions before operating the machine. Untrained operators can cause injury or death.

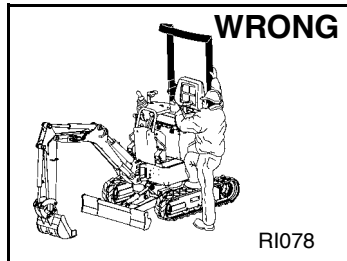
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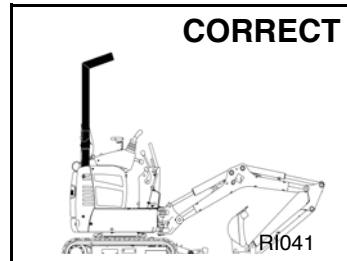
**Safety Alert Symbol:** This symbol with a warning statement, means: "Warning, be alert! Your safety is involved!" Carefully read the message that follows.



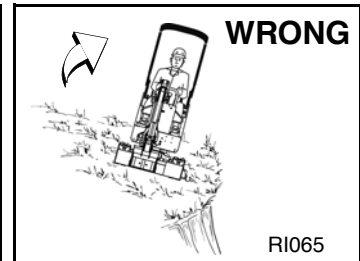
- ⚠ Never operate without instructions.
- ⚠ Read machine signs, Operation & Maintenance Manual, and Operator's Handbook.



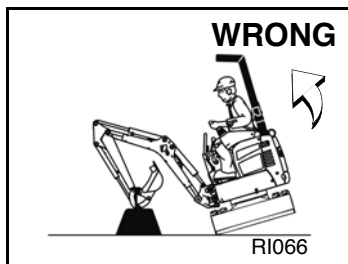
- ⚠ Do not grasp control handles when entering machine.
- ⚠ Be sure controls are in neutral before starting.
- ⚠ Sound horn and check behind machine before starting.



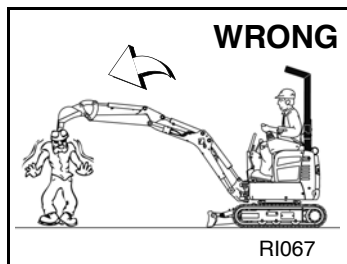
- ⚠ Never operate without approved TOPS.
- ⚠ Never modify equipment.
- ⚠ Never use attachments not approved by Bobcat Company.



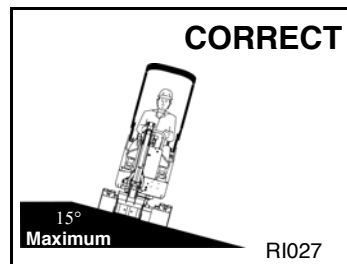
- ⚠ Avoid steep areas or banks that could break away.



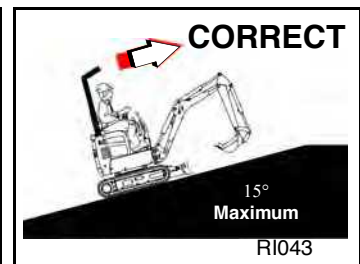
- ⚠ Use caution to avoid tipping - do not swing heavy load over side of track.
- ⚠ Operate on flat, level ground.



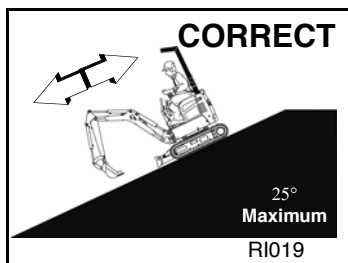
- ⚠ Keep bystanders out of maximum reach area.
- ⚠ Do not travel or turn with bucket extended.
- ⚠ Never carry riders.



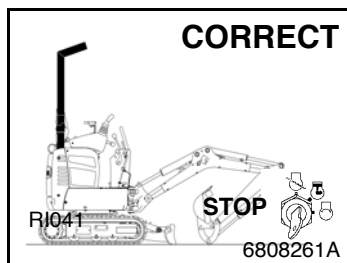
- ⚠ Never exceed a 15° slope to the side.



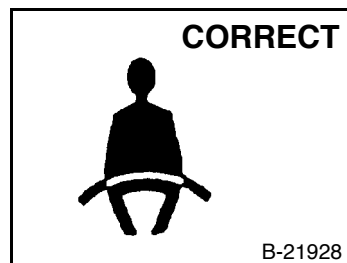
- ⚠ Never travel up a slope that exceeds 15°.



- ⚠ Never exceed 25° when going down or backing up a slope.



- ⚠ To leave excavator, lower the attachment.
- ⚠ Stop the engine.



- ⚠ Use TOPS and fasten seat belt securely.
- ⚠ Operate controls only from operator's seat.
- ⚠ Keep feet and hands on controls.

### SAFETY EQUIPMENT

1. Seat Belt
2. Slew Lock
3. TOPS
4. Safety Signs (Decals)
5. Safety Tread
6. Grab Handles
7. Operator's Handbook: Must be on machine.



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## REFERENCE INFORMATION

Write the correct information for YOUR Bobcat excavator in the spaces below. Always use these numbers when referring to your Bobcat excavator.

Excavator Serial  
Number

Engine Serial Number

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NOTES:

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YOUR BOBCAT DEALER:

ADDRESS:

PHONE:

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Bobcat Company  
P.O. Box 128  
Gwinner, ND 58040-0128  
UNITED STATES OF AMERICA

Doosan Benelux SA  
Drève Richelle 167  
B-1410 Waterloo  
BELGIUM



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## FOREWORD

This Operation & Maintenance Manual was written to give the owner / operator instructions on the safe operation and maintenance of the Bobcat excavator. READ AND UNDERSTAND THIS OPERATION & MAINTENANCE MANUAL BEFORE OPERATING YOUR BOBCAT EXCAVATOR. If you have any questions, see your Bobcat dealer. This manual may illustrate options and accessories not installed on your excavator.

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**DECLARATION OF CONFORMITY**

For Model E10

**Contents of EC Declaration of Conformity**

This information is provided in the operators manual to comply with clause 1.7.4.2(c) of Annex I of Machinery Directive 2006/42/EC.

The official EC Declaration of Conformity is supplied in a separate document.

<p><b>Manufacturer</b></p>  <p>Bobcat Company World Headquarters 250 East Beaton Drive West Fargo, ND 58078-6000 UNITED STATES OF AMERICA</p>	<p><b>Directive 2000/14/EC: Noise Emission in the Environment by Equipment For Use Outdoors</b></p> <p><b>Notified Body</b> Technical and Test Institute for Construction Prague, Czech Republic Notified Body Number: 1020</p> <p><b>EC Certificate No.</b> 1020-090-022395</p> <p><b>Conformity Assessment Procedure(s)</b> 2000/14/EC, Annex VIII, Full Quality Assurance</p> <p><b>Sound Power Levels [Lw(A)]</b></p> <table><tr><td>Measured Sound Power</td><td><b>93dBA</b></td></tr><tr><td>Guaranteed Sound Power</td><td><b>93dBA</b></td></tr></table>	Measured Sound Power	<b>93dBA</b>	Guaranteed Sound Power	<b>93dBA</b>
Measured Sound Power	<b>93dBA</b>				
Guaranteed Sound Power	<b>93dBA</b>				
<p><b>Technical Documentation</b> Doosan Benelux SA Drève Richelle 167 B-1410 Waterloo BELGIUM</p>	<p><b>Equipment conforms to CE Directive(s) Listed Below</b> 2006/42/EC: Machinery Directive 2004/108/EC: Electromagnetic Compatibility Directive</p>				
<p><b>Description of Equipment</b> Type of Equipment: Excavator Model Name: E10*AAEM Model Code: A33P</p> <p>Engine Manufacturer: Kubota Engine Model: D722-E2B-BCZ-6 Engine Power: 7,4 kW @ 2000 RPM</p>	<p><b>Declaration of Conformance</b> This equipment conforms to the requirements specified in all the EC Directives listed in this declaration.</p>				
<p><b>Effective From:</b></p> <p>29 December 2009</p>					



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**BOBCAT COMPANY IS ISO 9001 CERTIFIED**










ISO 9001 is an international standard that specifies requirements for a quality management system that controls the processes and procedures which we use to design, develop, manufacture, and distribute Bobcat products.

British Standards Institute (BSI) is the Certified Registrar Bobcat Company chose to assess the company's compliance with the ISO 9001 at Bobcat's manufacturing facilities in Gwinner, North Dakota (U.S.A.), Pontchâteau (France), and the Bobcat corporate offices (Gwinner, Bismarck, and West Fargo) in North Dakota. TÜV Rheinland is the Certified Registrar Bobcat Company chose to assess the company's compliance with the ISO 9001 at Bobcat's manufacturing facility in Dobris (Czech Republic). Only certified assessors, like BSI and TÜV Rheinland, can grant registrations.

ISO 9001 means that as a company we say what we do and do what we say. In other words, we have established procedures and policies, and we provide evidence that the procedures and policies are followed.

**REGULAR MAINTENANCE ITEMS**

	ENGINE OIL FILTER 6671057		PRIMARY HYDRAULIC FILTER 6653336
	FUEL FILTER 6667352		BATTERY 6669600
	AIR FILTER, Outer 6673752		RADIATOR CAP 6702797
	AIR FILTER, Inner 6673753		

**NOTE: Always verify Part Numbers with your Bobcat dealer.**

LUBRICANTS AND FLUIDS

Packaging		Bobcat Equipment						Only for Wheeled EXC and AL		
		ENGINE / LOADER TRANSMISSION		HYDRAULIC/ HYDROSTATIC		ANTIFREEZE COOLANT		AXLE / TRANSMISSION	BRAKE FLUID	
Lineart	5 L Can	Bobcat Engine Power SAE 0W30		Bobcat Superior SH Hydraulic/Hydrostatic		Bobcat PG Coolant Concentrated		Bobcat Axle / Transmission oil SAE 85W90 LS		Bobcat Brake Fluid LHM
		Bobcat Engine Power SAE 10W30		Bobcat Bio Hydraulic Hydraulic/Hydrostatic		Bobcat PG Coolant 4 Seasons Concentrated		Bobcat Axle / Transmission Oil ISO 100		
		Bobcat Engine Power SAE 15W40		Bobcat Engine Power SAE 20W50		Bobcat PG Coolant Concentrated		Bobcat Axle / Transmission Oil ISO 100		
		Bobcat Engine Power SAE 15W40 Cj4		Bobcat Engine Power SAE 15W40		Bobcat EG Coolant Concentrated		Bobcat Axle / Transmission Oil ISO 100		
		Bobcat Engine Power SAE 10W30 Cj4		Bobcat Engine Power SAE 20W50		Bobcat EG Coolant Premixed		Bobcat Axle / Transmission Oil ISO 100		
		Bobcat Engine Power SAE 15W40 Cj4		Bobcat Engine Power SAE 15W40		Bobcat EG Coolant Concentrated		Bobcat Axle / Transmission Oil ISO 100		
209 L Drum	25 L Container	Bobcat Engine Power SAE 10W30		Bobcat Superior SH Hydraulic/Hydrostatic		Bobcat PG Coolant 4 Seasons Concentrated		Bobcat Axle / Transmission oil SAE 85W90 LS		Bobcat Brake Fluid LHM
		Bobcat Engine Power SAE 15W40		Bobcat Bio Hydraulic Hydraulic/Hydrostatic		Bobcat PG Coolant Concentrated		Bobcat Axle / Transmission Oil ISO 100		
		Bobcat Engine Power SAE 15W40 Cj4		Bobcat Engine Power SAE 20W50		Bobcat PG Coolant Concentrated		Bobcat Axle / Transmission Oil ISO 100		
1000 L Tank	5 L Can	Bobcat Engine Power SAE 10W30		Bobcat Bio Hydraulic Hydraulic/Hydrostatic		Bobcat PG Coolant 4 Seasons Concentrated		Bobcat Axle / Transmission oil SAE 85W90 LS		Bobcat Brake Fluid LHM
		Bobcat Engine Power SAE 15W40		Bobcat Bio Hydraulic Hydraulic/Hydrostatic		Bobcat PG Coolant Concentrated		Bobcat Axle / Transmission Oil ISO 100		
		Bobcat Engine Power SAE 15W40 Cj4		Bobcat Engine Power SAE 20W50		Bobcat PG Coolant Concentrated		Bobcat Axle / Transmission Oil ISO 100		
400 gr Grease	209 L Drum	Bobcat Multi-Purpose Grease		Bobcat Multi-Purpose Grease		Bobcat Multi-Purpose Grease		Bobcat Multi-Purpose Grease		Bobcat Multi-Purpose Grease
		Bobcat Supreme HD Grease		Bobcat Supreme HD Grease		Bobcat Supreme HD Grease		Bobcat Supreme HD Grease		Bobcat Supreme HD Grease
		Bobcat Extreme HP Grease		Bobcat Extreme HP Grease		Bobcat Extreme HP Grease		Bobcat Extreme HP Grease		Bobcat Extreme HP Grease

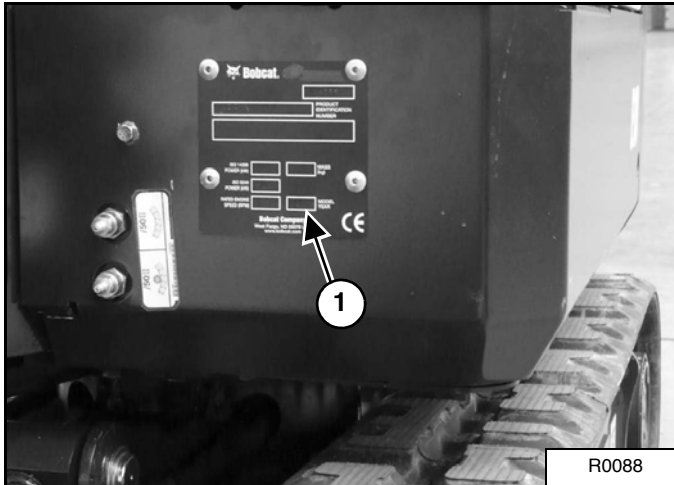
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## SERIAL NUMBER LOCATIONS

Always use the serial number of the excavator when requesting service information or when ordering parts. Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure in doing a specific service operation.

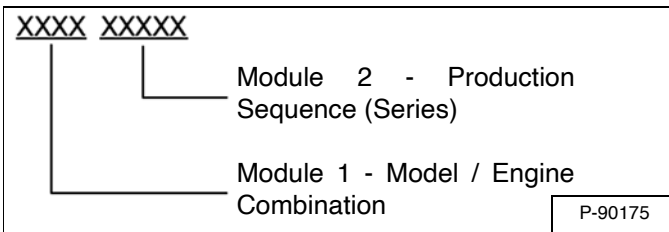
### Excavator Serial Number

Figure 1



The excavator serial number plate (Item 1) [Figure 1] is located on the frame of the machine in the location shown.

Explanation of excavator Serial Number:



1. The four digit Model / Engine Combination Module number identifies the model number and engine combination.
2. The five digit Production Sequence Number identifies the order which the excavator is produced.

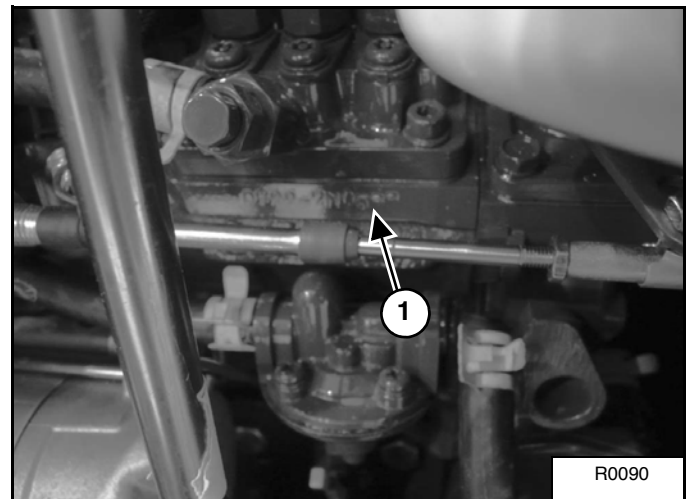
### Engine Serial Number

Figure 2



The engine serial number is located as a plate (Item 1) on the top of the engine [Figure 2].

Figure 3



It also appears engraved on the side of the engine (Item 1) [Figure 3].

## DELIVERY REPORT

Figure 4

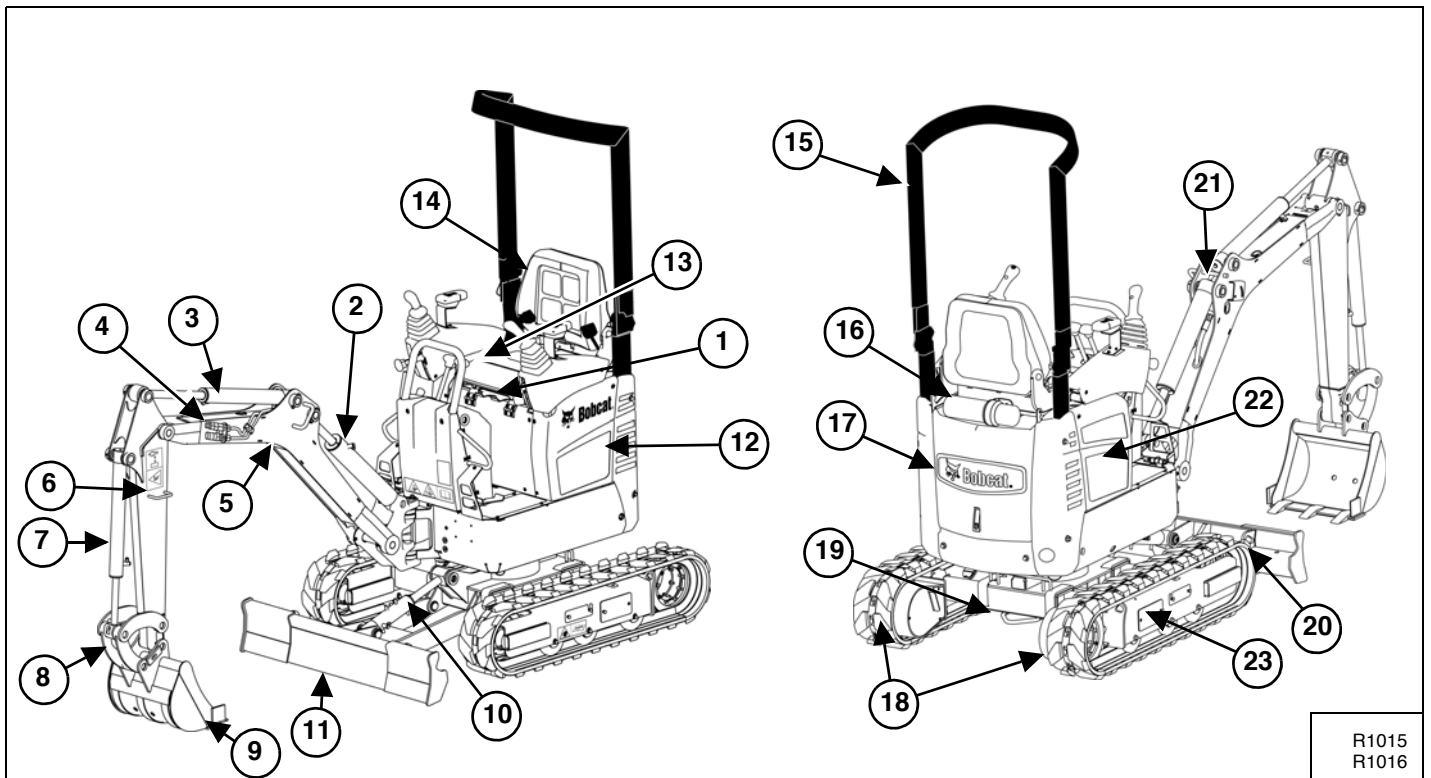
The diagram shows a form layout with the following sections:

- DELIVERY REPORT** (top right)
- WARNING** (middle left, highlighted)
- Multiple columns of horizontal lines for text entry.
- B-16315** (bottom right)

The delivery report [Figure 4] contains a list of items that must be explained or shown to the owner or operator by the dealer when the Bobcat excavator is delivered.

The delivery report must be reviewed and signed by the owner or operator and the dealer.

## EXCAVATOR IDENTIFICATION



R1015  
R1016

ITEM	DESCRIPTION	ITEM	DESCRIPTION
1	Operator's Handbook	15	Tip-Over Protective Structure (TOPS)
2	Boom Cylinder	16	Operation & Maintenance Manual
3	Arm Cylinder	17	Tailgate
4	Auxiliary Quick Couplers	18	Tracks
5	Boom	19	Tie Downs
6	Arm	20	Tie Downs / Lift Point (Both Sides)
7	Bucket Cylinder	21	Lift Point
8	Bucket Link / Attachment Coupler (If Equipped)	22	Right Side Cover
9	Bucket <b>[A]</b>	23	Track Frames
10	Blade Cylinder		
11	Blade		
12	Upperstructure		
13	Control Levers (Joysticks)		
14	Operator's Seat with Seat Belt		

**[A]** BUCKET - Several different buckets and other attachments are available for the Bobcat excavator.

## FEATURES, ACCESSORIES AND ATTACHMENTS

### Standard Items

Model E10 Bobcat excavators are equipped with the following standard items:

- 710 mm dozer blade / 1100 mm extended
- 180 mm rubber track
- Auxiliary hydraulics
- Control console locks
- Horn
- Hydraulically expandable undercarriage from 710 to 1100 mm
- Retractable seat belt
- Spark arrester muffler
- Suspension seat
- Two speed travel
- \* TOPS canopy
- Vandalism protection
- Working lights

### Options And Accessories

Below is a list of some equipment available from your Bobcat excavator dealer as Dealer and / or Factory Installed Accessories and Factory Installed Options. See your Bobcat dealer for other available options, accessories and attachments.

- Auxiliary double action
- Beacon
- Demolition kit
- Keyless Start
- Motion alarm
- Strobe

***Specifications subject to change without notice and standard items can vary.***

### Attachments

These and other attachments are approved for use on this model Bobcat excavator. Do not use unapproved attachments. Attachments not manufactured by Bobcat can not be approved.

The versatile Bobcat excavator quickly turns into a multi-job machine with a variety of attachments.

See your Bobcat dealer for more details on these and other attachments and field accessories.

- Digging bucket
- Grading bucket
- Hydraulic breaker



## **OPERATOR CANOPY (TOPS)**

The excavator has an operator canopy (TOPS - Tip-Over Protective Structure) as standard equipment. The TOPS meets ISO 3471 and ISO 12117.

The canopy provides operator protection if the excavator is tipped over. The seat belt must be worn for TOPS protection.



**Never modify operator cab by welding, grinding, drilling holes or adding attachments unless instructed to do so by Bobcat Company. Changes to the cab can cause loss of operator protection from rollover and falling objects, and result in injury or death.**

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