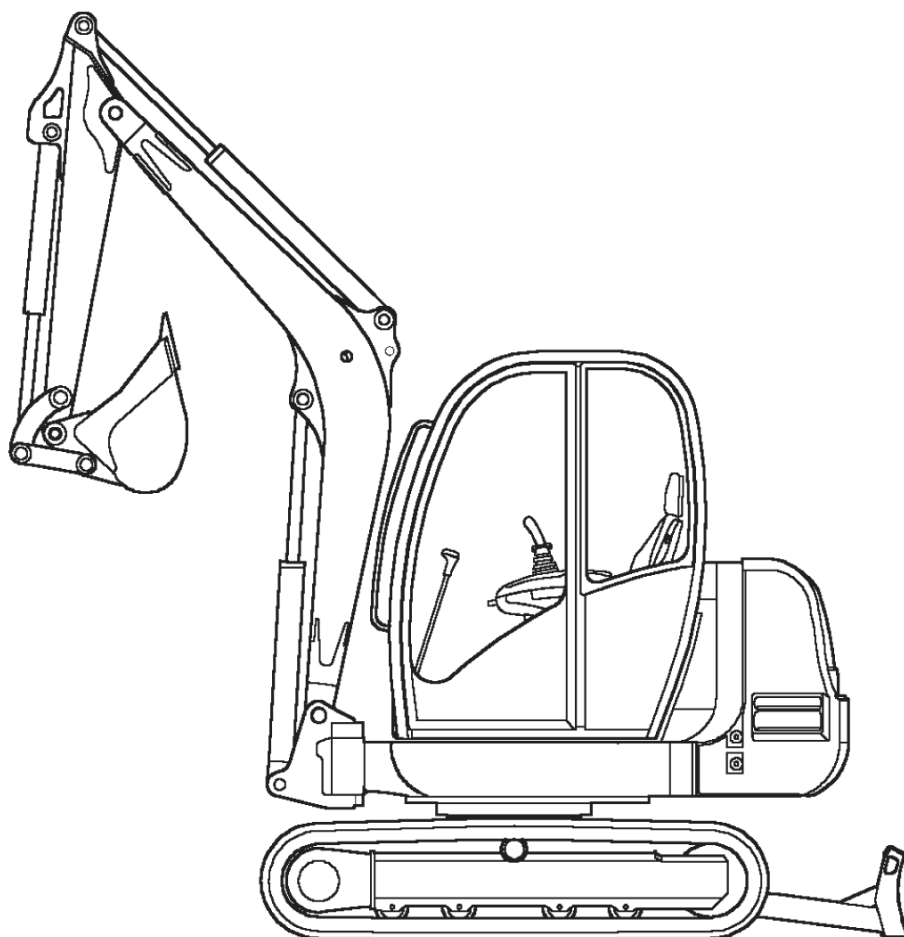


193-223

Compact Excavators

Beginning Serial Number: AD00454



PARTS MANUAL

CEHL[®]

Introduction

When ordering service parts, specify the correct part number, full description, quantity required, the unit model number and serial number. For your safety and continued proper operation, use only genuine GEHL service parts.

The model and serial number for this unit are on a tag located on a panel on the front of the cabin.

“Right” and “left” are determined from a position sitting on the seat and facing forward. From this position, the cab is on the “left” and the hydraulic valve compartment is on the “right”.

GEHL Company reserves the right to make changes or improvements in the design or construction of any part of the unit without incurring the obligation to install such changes on any previously delivered units.

Refer to the abbreviations table located on this page for the various fastener descriptions. Standard attaching hardware torque values are also provided on the inside back cover. Metric torque values shown in the illustrations are in Newton-meters and can be converted to Foot-pounds by multiplying by 0.738.

In the exploded view parts list, additional information may follow the Reference Number.

Serial Number breaks are indicated as follows:

(SN → XXXXX) - indicates Serial Numbers up to and including XXXXX.

(SN YYYYYY →) - indicates Serial Numbers YYYYYY and after.

Unless otherwise specified, all cap screws or bolts are Grade 5, cadmium or zinc plated; hexagon nuts for Grade 5 screws or bolts are Grade B; hexagon nuts for other screws or bolts are Grade A.

NOTE: *The following abbreviations may be used herein:*

ASSD	- Assembled
ASSY	- Assembly
CB	- Carriage Bolt
CP	- Cotter Pin
CS	- Cap Screw (Hexagon Head)
FHCS	- Flat Head Cap Screw
GR	- Grade
HB	- Hex Bolt
HLN	- Hex Lock Nut
HN	- Hex Nut
HP	- High Pressure
INS	- Insert
LN	- Lock Nut
LT	- Left Hand
LW	- Lock Washer
M	- Metric
MM/mm	- Millimeter
RT	- Right
SHCS	- Socket Head Cap Screw
SLTD	- Slotted
SN	- Serial Number or Slotted Nut

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DECAL LOCATIONS

GENERAL INFORMATION

Decal location information is provided to assist in the proper selection and application of new decals, in the event the original decals become damaged or the machine is repainted. Refer to the listing for the illustration reference number, part number, description and quantity of each decal provided in the kit. Refer to the appropriate illustrations for replacement locations.

To ensure proper selection of the correct replacement decals, compare all of the various closeup location drawings to your machine before starting to refinish the unit. Then circle each shown decal (applicable to your machine) while checking off its part number in the listing. After you have verified all the decals needed for replacement, place any extra unnecessary decals aside for disposal.

NOTE: Refer to the *SAFETY* chapter of the *Operator's Manual* for the specific information provided on all of the various safety decals furnished in the decal kit(s).

NEW DECAL APPLICATION

Surfaces **MUST** be free from dirt, dust, grease and other foreign material before applying the new decal. To apply, remove the smaller portion of the decal backing paper and apply this part of the exposed adhesive backing to the clean surface while maintaining proper position and alignment. Peel the other portion of the backing paper off slowly while applying hand pressure to smooth out the decal surface.



CAUTION

ALWAYS follow safety precautions on decals. Replace the decals if they are damaged, or if the unit is repainted. If repainting, **BE SURE** all applicable decals are affixed to your unit.

PAINT NOTICE

Use this list to order paint for refinishing:

906213	One Gal. Construction Yellow
906323	One Qt. Charcoal Grey
906317	One Gal. Charcoal Grey
906214	6 (12 oz. Spray Cans) Yellow
906318	6 (12 oz. Spray Cans) Grey

Most of the decals are common to both models. Any differences are called out using asterisks. The decal kits for the model 193/223 Compact Excavators are listed below:

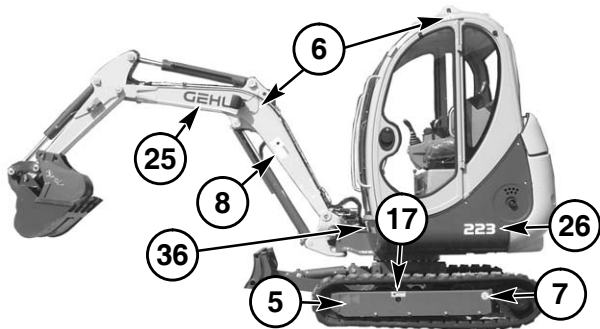
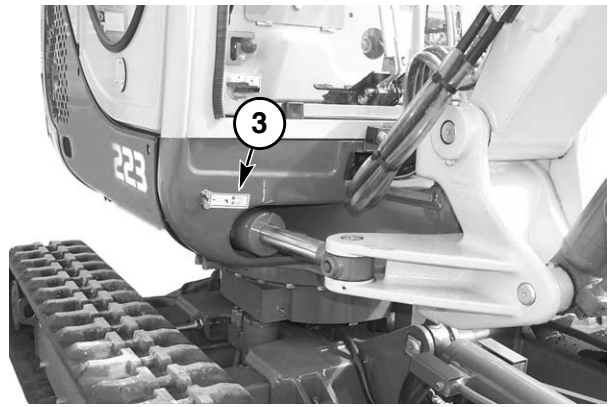
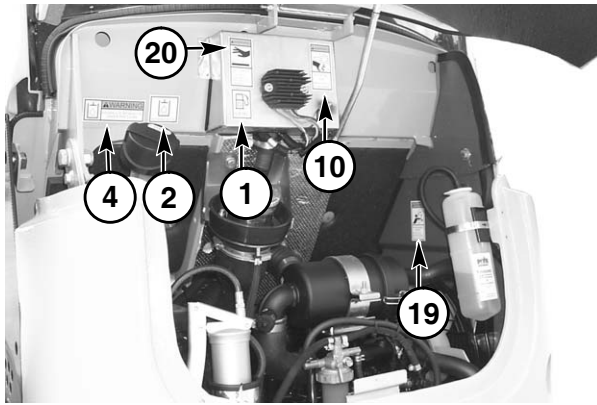
Ref. No.	Part No.	Description & Quantity
	165992	Decal Kit - 193
	165993	Decal Kit - 223
1	161965	Diesel Fuel
2	161966	Hydraulic Oil
3	161967	Lubrication
4	161969	WARNING - Hydraulic Reservoir
5	161970	Arrow (2 places)
6	161981	Lift Point (4 places)
7	161982	Tiedown Point (2 places)
8	161985	WARNING - Keep Away (2 places)
9	161986	WARNING - Read Manual
10	161987	WARNING - Rotating Fan (2 places)
11	162449	Dozer Blade - Up and Down
12	162450	Travel - Left
13	162451	Travel - Right
14	162452	Right Joystick Control
15	162453	Left Joystick Control
16	163973	WARNING - Mandatory Shutdown
17	163975	WARNING - Avoid Injury (2 places)
18	163976	WARNING - Avoid Injury
19	163977	WARNING - Entanglement Hazard
20	163978	WARNING - Hot Surface
22	164854	WARNING - Avoid Injury (cabin models only)
23	163974	Manual Throttle
24	183935	GEHL
25	183963	GEHL (2 places)
26	170179*	223 (2 places)
	170178**	193 (2 places)
27	179711	Lifting Capacity
28	9705488G	Swing Lock
29	9705282G	Track Speed
30	162458*	Cabin Tilt
31	9705489G	Return Flow Control
32	9705501G	ISO-SAE Valve
33	9705366G	Heater (Cabin models only)
34	9705502G	WARNING - Rollover Protection
35	9705523G	Cabin Support
36	184305	GEHL

Not Illustrated:

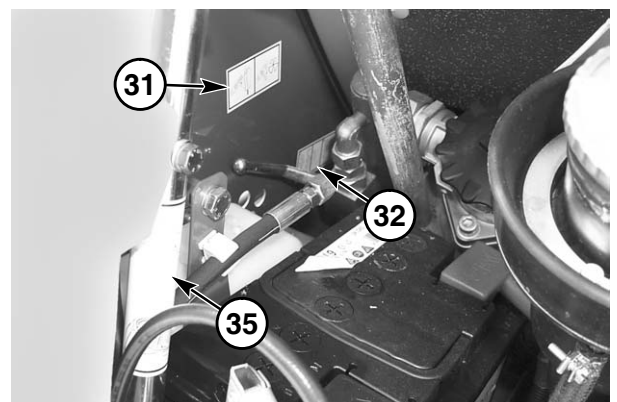
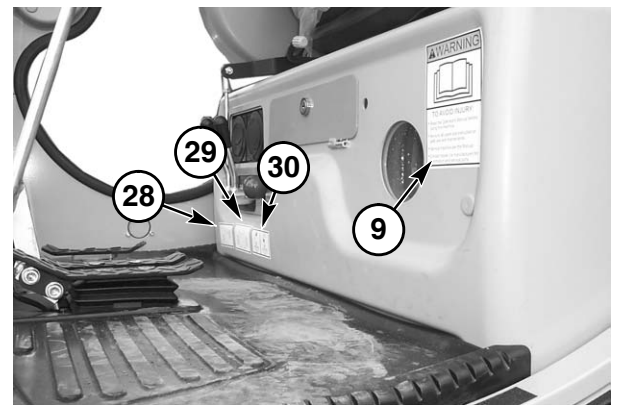
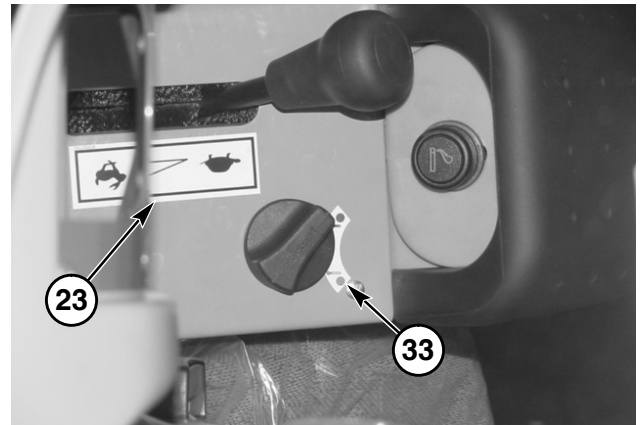
NA	179688	Sticker (2 places)
NA	165910	Sticker
NA	164853	Engine Compartment Latch

* Decal used on 223 only.

** Decal used on 193 only.



Both Sides



The decal listing has been repeated for your convenience.

Ref. No.	Part No.	Description & Quantity
----------	----------	------------------------

	165992	Decal Kit - 193
	165993	Decal Kit - 223
1	161965	Diesel Fuel
2	161966	Hydraulic Oil
3	161967	Lubrication
4	161969	WARNING - Hydraulic Reservoir
5	161970	Arrow (2 places)
6	161981	Lift Point (4 places)
7	161982	Tiedown Point (2 places)
8	161985	WARNING - Keep Away (2 places)
9	161986	WARNING - Read Manual
10	161987	WARNING - Rotating Fan (2 places)
11	162449	Dozer Blade - Up and Down
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33	9705366G	Heater (Cabin models only)
34	9705502G	WARNING - Rollover Protection
35	9705523G	Cabin Support
36	184305	GEHL

Not Illustrated:

NA	179688	Sticker (2 places)
NA	165910	Sticker
NA	164853	Engine Compartment Latch

* Decal used on 223 only.

** Decal used on 193 only.

Overhead Panel Decals - positioning may vary by model and cabin style

HUBKRAFT/LIFTING CAPACITY/FORCE DE LEVAGE ISO 10567

		3.0m		2.5m		2.0m		1.5m	
B \ A	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram
3.0m	410*	410*			395*	395*			
2.0m	395*	315	395*	360	400*	400*			
1.0m	410*	270	470*	345	550*	450	760*	615	1115*
0.0m	425*	280	515*	335	665*	425	920*	585	1360*
-1.0m	440*	345			585*	420	790*	580	1135*
-1.5m	430*	430*					580*	580*	815*

1.

2.

3.

4.

⚠ WARNING

MANDATORY SAFETY SHUTDOWN PROCEDURE

- Lower all equipment to ground.
- Reduce throttle; shut off engine.
- Lock out controls before exiting.
- Remove key and take it with you.

9705272G

1.

3.

2.

4.

⚠ WARNING

TO AVOID INJURY:

- Load and transport unit properly. Inspect job-site for hazards.
- Operate only from operator's seat. Fasten seatbelt.
- Keep people out of DANGER ZONE.
- Operate within stability limit of machine. DO NOT OVERLOAD. Use only approved attachments.

9705274G

14

1

2

12

TRAVEL LEFT KETTE LINKS

FORWARD VORWÄRTS

REVERSE RÜCKWÄRTS

13

TRAVEL RIGHT KETTE RECHTS

FORWARD VORWÄRTS

REVERSE RÜCKWÄRTS

15

1

2

11

DOZER BLADE DOWN PLANIERSCHILD SENKEN

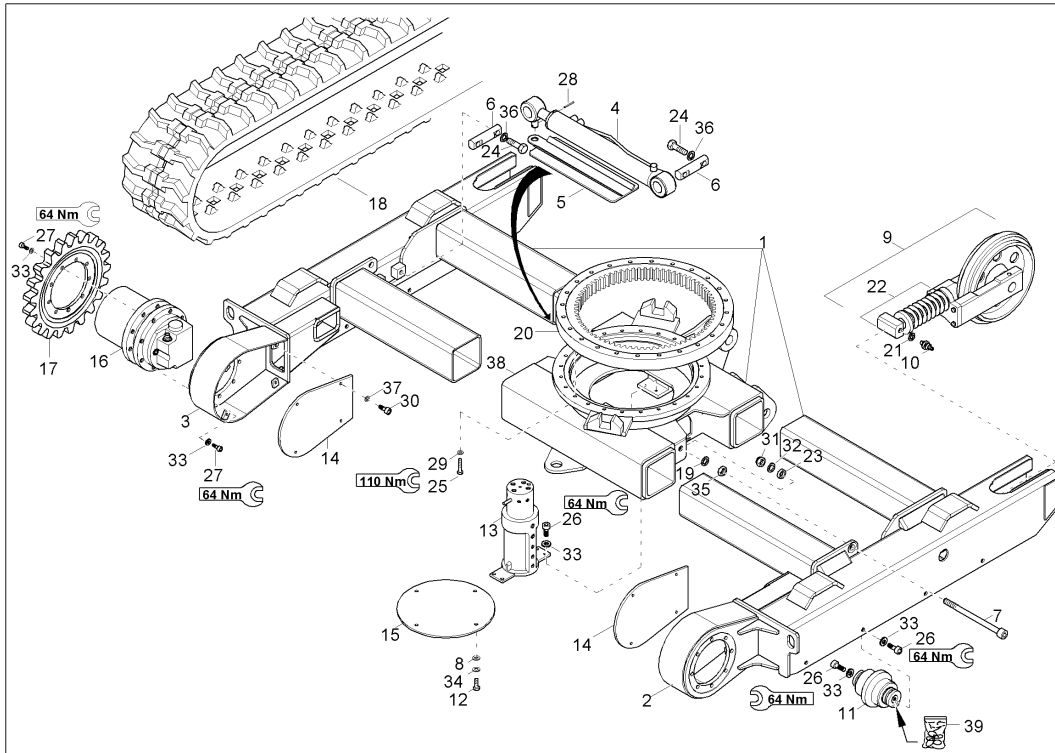
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DOZER BLADE UP PLANIERSCHILD HEBEN

WARNING: The operator protection provided by a ROPS/FOPS/TOPS is reduced if it altered, subjected to an upset or has structural damage, and it must be replaced. Any alternations or repairs without the written consent of the manufacturer will void the warranty and certification of the structure.

ROLLOVER PROTECTIVE STRUCTURE		
BAUMASCHINEN GmbH Haidfeldstraße 37 4060 Linz-Leonding MADE IN AUSTRIA	At the time of installation, when properly installed in accordance with the manufacturer's instructions on a machine that has not been altered to exceed the certification test weight, this structure meets criteria: ISO 3449 - ISO 3471 - ISO 12117	MODEL: LK -88 8800AR50 FOR USE ON: 2503 - 3003 3503 - 3703 TEST WEIGHT (kg): 4020



Ref. No.	Part No.	Description	Qty. Req.	Ref. No.	Part No.	Description	Qty. Req.
1	178469	UNDERCARRIAGE	1	18	1922401G	RUBBER TRACK	2
2	178470	FRAME RIGHT	1	19	163645	WASHER	2
3	178471	FRAME LEFT	1	20	161724	TURNTABLE	1
4	2228006G	TELESCOPIC CYLINDER	1	21	160865	SCREW SEAL	2
	See page 99 for individual components.			22	1402306G	TENSION CYLINDER	2
5	160616	SHIELD	1	23	161915	TUBE	2
6	160622	PIN	2	24	651412	CS M14-2.0 X 50 C 10.9 ZO	4
7	161399	SCREW	2	25	651408	CS M12-1.7 X 40 C 10.9 ZO	24
8	161640	WASHER/GR A 10.5	4	26	651474	SHCS M10-1.2 X 25 10.9 ZO	20
9	160516	TRACK TENSION	2	27	162022	SCREW	34
	See page 12 for individual components.			28	651468	PIN/SPRING M8	1
10	160638	VALVE	2	29	161643	WASHER/ROUND HI-TENS	24
11	160517	ROLLER	8	30	651515	SHCS M8-1.2 X 20 8.8 ZO	8
12	651391	CS M10-1.5 X 20 C 8.8 ZO	4	31	651451	HLN INS M16-2.0 ZO	2
13	161920	SWIVEL JOINT	1	32	161649	WASHER/GR A 18 ZO DIN7989	2
	See page 75 for individual components.			33	163641	WASHER	54
14	178472	COVER	2	34	161669	RING/SNAP S10	4
15	162094	COVER	1	35	656052	NUT/HEX M16-2.00 D934 PC1	2
16	160636	DRIVE MOTOR	2	36	161671	RING/SNAP S14	4
	See page 72 for individual components.			37	163670	WASHER	8
17	160634	SPROCKET	2	38	178468	BRACKET	1
				39	165146	SEAL KIT	8

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Our service email:

manuals007@hotmail.com