

GEHL®

Form No.
50940091
Revision B
Dec. 2012

Model Z27

Compact Excavator



Parts Manual

INTRODUCTION

General

- MANITOU AMERICAS, INC. reserves the right to make changes or improvements in the design or construction of any part of the machine without incurring the obligation to install such changes on any previously delivered machines.
- This parts manual should not be used as a technical data reference; it uses simplified illustrations and does not detail servicing procedures.

Parts Ordering Information

- When ordering service parts, specify the correct part number, full description and quantity required, as well as the machine and engine model and serial numbers. For your safety and continued proper operation, use only genuine GEHL service parts.
- “Right”, “left”, “front” and “back” are determined from a position sitting on the operator’s seat and facing forward, and the excavator “house” rotated so that the blade is also facing forward.

Torque Charts

Standard attaching hardware torque values are provided on the inside back cover, and some torque values may be shown in illustrations. Metric torque values are shown in Newton-meters, and are converted to foot-pounds by multiplying by 0.738.

Illustrations and Parts Lists

- Not all parts shown in the illustrations may be included in the parts listings; some are not serviced separately or are not included on engines sold in all areas.
- Ref. Nos. shown in the parts listings without part numbers are shown for reference purposes only and are not available for purchase.
- Boxes or brackets may be used in some illustrations to indicate assemblies (part groupings), or in some cases to highlight different versions of individual parts or assemblies.
- Text references may be present on some illustrations to provide additional information.

- Some illustrations will contain circled letters or a circled combination of letters and numbers in addition to the regular number callouts. These special callouts may be used to identify hydraulic port locations which are marked on components, or to identify the two ends of a hose, tube, or other part that is shown split in the illustration. They may also be used to indicate a common reference point when different versions of components are shown on the illustration.

Serial Number Locations and Information

- Machine Serial Plate - Located at the lower right front of the machine on the turning frame. There are four items shown on the plate:
 - 1) Model = machine model number
 - 2) Machine No. = machine serial number
 - 3) Engine No. = engine serial number
 - 4) Product Identification Number = a sequence starting with YMR plus the machine model number, and ending with the five digit machine serial number. The additional characters in-between provide information about specific machine configuration.

NOTE: *The engine serial number is shown on this plate for ease of access. It is also shown on a serial plate located on the engine cylinder head cover.*

- ROPS /FOPS Serial Plate - Located on a crossmember on the inside of the canopy roof, if equipped. There are four items shown on the plate:
 - 1) Machine Model = models that this structure is rated for, may be more than one model
 - 2) ROPS/FOPS part number
 - 3) ROPS/FOPS Serial Number
 - 4) Max. Gross Machine Weight

INTRODUCTION

- TOPS/FOPS Serial Plate - Located inside the cabin on a support post behind the operator seat at the left side, if equipped. There are four items shown on the plate:
 - 1) TOPS/FOPS part number
 - 2) TOPS/FOPS Serial Number
 - 3) Machine Model = models that this structure is rated for, may be more than one model
 - 4) Max. Gross Machine Weight

NOTE: *ROPS = Roll Over Protective Structure, TOPS = Tip Over Protective Structure, FOPS = Falling Object Protective Structure*

Reference Number Sequencing in Parts Lists

NOTE: *Reference numbers in the illustrations and parts listings may include sequencing variations of hyphens (-) and/or letters.*

FOR EXAMPLE (Ref. Nos.):

5 = Original version/configuration of a part or assembly

5-1, 5-2, etc. = The hyphen (-) indicates an updated version/configuration of Ref. No. 5, and should have an associated serial number. The highest numbered version is the latest. If a hyphenated version is shown in the parts listing, but only the non-hyphenated version is shown in the illustration, the versions are visually similar. Multiple versions may be shown in the illustration, to identify changes.

5A, 5B, etc. = These parts do not replace Ref. Nos. 5 or 5-1, they are added components and may have an associated serial number.

5-1A, 5-1B, etc. = These are added components and may have an associated serial number.

NOTE: *There may be a Ref. No. 5A without an associated Ref. No. 5 in the list. In that example, Ref. No. 5A is a newly added part and may have an associated serial number and also an additional note or remark.*

INTRODUCTION

Unless otherwise specified, all cap screws, nuts, and bolts are Grade 8.8, cadmium or zinc plated.

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

ASSD	Assembled
ASSY	Assembly
AR.....	As Required
CB	Carriage Bolt
CP	Cotter Pin
CS	Cap Screw (Hexagon Head)
CYL	Cylinder
DIA	Diameter
FHCS	Flat Head Cap Screw
FOPS.....	Falling Object Protective Structure
GR.....	Grade
HB.....	Hex Bolt
HLN	Hex Lock Nut
HN.....	Hex Nut
HP	High Pressure
HYD.....	Hydraulic
INS.....	Insert
LN.....	Lock Nut
LT	Left
LW	Lock Washer
M.....	Meter or Meters
MM/mm.....	Millimeter
N/A	Not Available, Not Applicable
NPT.....	National Pipe Thread
OS	Oversized
ROPS	Roll Over Protective Structure
RT	Right
SHCS	Socket Head Cap Screw
SLTD.....	Slotted
SN	Serial Number or Slotted Nut
SQ	Square
TOPS.....	Tip Over Protective Structure
US	Undersized
W/	With
W/O.....	Without

TABLE OF CONTENTS

Introduction.....	i	Fig. 37 - Control Equipment (Lock Lever & Stand : Left)	70
Compact Excavator.....	1	Fig. 38 - Control Equipment (Travel Lever).....	72
Special Tools, Paint	1	Fig. 39 - Control Equipment (Blade Lever).....	74
Figure Index (1) - Main Parts	2	Fig. 40 - Control Equipment (Travel Pedal)	76
Figure Index (2) - Hydraulic Section.....	3	Fig. 41 - Control Equipment (Swing Pedal)	78
Fig. 1 - Label (Canopy).....	4	Fig. 42 - Control Equipment (Low-High Pedal).....	80
Fig. 2 - Label (Cabin)	6	Fig. 43 - Control Equipment (P.T.O. Pedal)	82
Fig. 5 - Safety Label (Canopy)	8	Fig. 44 - Armrest.....	84
Fig. 6 - Safety Label (Cabin)	10	Fig. 45 - Control Valve Plate	86
Fig. 7 - Muffler & Air Cleaner	12	Fig. 46 - Track Frame	88
Fig. 8 - Accelerator	14	Fig. 47 - Crawler Guard.....	90
Fig. 9 - Engine Mount.....	16	Fig. 48 - Weight	92
Fig. 10 - Radiator Shroud	18	Fig. 49 - Turning Frame.....	94
Fig. 11 - Radiator & Sub-Tank	20	Fig. 50 - Greasing	96
Fig. 12 - Duct.....	22	Fig. 51 - Turning Bearing	98
Fig. 13 - Fan Guard.....	24	Fig. 52 - Cover (Link).....	100
Fig. 14 - Duct Bracket.....	26	Fig. 53 - Multi Cover & Frame Guard	102
Fig. 15 - Fuel Tank	28	Fig. 55 - Cover (Tail Pipe).....	104
Fig. 16 - Fuel Line	30	Fig. 56 - Cover (Quick Coupler Spec.)	106
Fig. 17 - Battery	32	Fig. 57 - Cover (Bonnet).....	108
Fig. 18 - Electric Part (Around Engine).....	34	Fig. 58 - Cover (Turning Frame)	110
Fig. 19 - Electric Part (Around Frame).....	36	Fig. 59 - Cover (Track Frame).....	112
Fig. 20 - Electric Part (Around Seat)	38	Fig. 60 - Cover (Seat Mount).....	114
Fig. 21 - Electric Part (Starting Switch).....	40	Fig. 61 - Step.....	116
Fig. 22 - Electric Part (Travel Alarm (Canopy Spec.)	42	Fig. 62 - Floor Mat & Handrail.....	118
Fig. 23 - Electric Part (Travel Alarm (Cabin Spec.).....	44	Fig. 63 - Instrument Panel.....	120
Fig. 24 - Electric Part (P.T.O Switch).....	46	Fig. 64 - Seat Mount	122
Fig. 25 - Electric Part (Work Lamp).....	48	Seat.....	124
Fig. 27 - Electric Part (Quick Coupler : Switch Box).....	50	Fig. 65 - Seat Plate	126
Fig. 28 - Heater	52	Fig. 66 - Handrail & Cover.....	128
Fig. 29 - Window Washer	54	Fig. 67 - Bonnet (1).....	130
Fig. 30 - Sprocket.....	56	Fig. 69 - Bonnet (2).....	132
Fig. 31 - Idler & Adjust (Rubber Crawler Spec.).....	58	Fig. 70 - Bonnet (3).....	134
Fig. 32 - Idler & Adjust (Iron Crawler Spec.).....	60	Fig. 72 - Bonnet (4).....	136
Fig. 33 - Track Roller	62	Fig. 74 - Canopy	138
Fig. 34 - Carrier Roller	64	Fig. 76 - Cabin (Body).....	140
Fig. 35 - Crawler.....	66	Fig. 77 - Cabin (Glass).....	142
Fig. 36 - Control Equipment (Lock Lever & Stand : Right).....	68	Fig. 78 - Cabin (Accessory).....	144

Thanks for your reading.

Please click here to download complete manual instantly.

And can also choose other manuals.

Feel free --->write to me with any questions.

Our service email:

manuals007@hotmail.com