

**GEHL**®

Form No.  
50940214  
Revision A  
May 2014

# Model Z80

## Compact Excavator

Serial Numbers 00701 and Up



# 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.
- Internal engine components not shown in this manual are contained in a separate engine parts manual. The engine parts manual is contained in the documentation packet shipped with the machine, and is also available separately. Contact your dealer with any documentation requests.

## 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.

## Model and Serial Number Record

Excavator Model Number	
Excavator Serial Number	
Engine Serial Number	

## 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

### Locations

- Product Identification 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.

# INTRODUCTION

**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
- 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*

## Additional Serial Number Information

Parts changes are often defined by serial numbers, and less often by date codes.

- Serial numbers as shown in the parts manual may have prefixes M (machine) or E (engine) preceding the serial number shown on the identification tag.
- (From 1st SN) – indicates that the part can be used on all machines from 1st serial number to present.
- “XXXXX” and “ZZZZZ” are used in the SN sequence instead of numbers for parts that have changed, but where the serial number for the change is not known.
- In some cases, a date code is used instead of a serial number, and is displayed in the YYYY.MM format. Months will be displayed as .01-.12. For example, 2012.02 would be the second month (February) of 2012.

## 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  
A/C ..... Air Conditioning  
A/D ..... Auto-Deceleration  
AR ..... As Required  
CB ..... Carriage Bolt  
CP ..... Cotter Pin  
CS ..... Cap Screw (Hexagon Head)  
C/V ..... Control Valve  
CYL ..... Cylinder  
DIA ..... Diameter  
ESS ..... Engine Speed Sensing  
FHCS ..... Flat Head Cap Screw  
FOPS ..... Falling Object Protective Structure  
G ..... Grams  
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  
PTO ..... Power Take-Off  
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

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