# John Deere E18ZS Excavator Repair Technical Manual (TM14362X19)

## E18ZS Excavator Repair

(PIN: WNCE018A_ _D016000—)

JOHN HARE

COLLECTION

## REPAIR TECHNICAL MANUAL

**E18ZS Excavator** (PIN: WNCE018A_ _D016000—)

**TM14362X19 30NOV19 (ENGLISH)**

**For complete service information also see:**






**John Deere Tianjin Construction Works**


**Covers:** E18ZS,WNCE018A_,_D016000)

**Type:** Service Manual
**Language:** English
**Pages:** 64
**Format:** PDF
**Features:** Bookmarked, searchable, printable
**Compatibility:** Windows/Mac/Tablet/Mobile
This service manual contains important information for the maintenance, troubleshooting and servicing of the **John Deere E18ZS Excavator Repair Technical Manual (TM14362X19)**

In this manual you will find detailed specifications, illustrations, schematics, diagrams and step-by-step procedures to properly service and diagnose the machine to the manufacturer's standards.

**Contents:**

- General Information
- Specifications
- Serial Number Location
- Engine Specifications
- Engine Diagnostics
- Engine Tests and Adjustments
- Engine Repair
- Power Train
- Transmission
- Axles
- Differential
- PTO
- Hydraulic System
- Electrical System
- Electrical Tests and Diagnostics
- Wiring Diagram / Schematic
- Ignition and Charging
- Steering
- Brakes
- Wheels
- Operator's Platform
- Body Panels
- Disassembly and Assembly
- Diagnostics, Tests and Adjustments
- Troubleshooting
- and much more...

Please note this manual is in **downloadable PDF format only.** If you have any questions about this product or would like to request sample pages, please contact us and reference the product name or SKU.

# Manual Identification—READ THIS FIRST!

**IMPORTANT:**
**Use only supporting manuals designated for each specific machine. If incorrect manual is chosen, improper service may occur. Verify product identification number (PIN) when choosing the correct manual.**

***Choosing the Correct Supporting Manuals***

John Deere machines are available in the different machine configurations based on the various markets into which they are sold. Different supporting manuals exist for the different machine configurations.

When necessary, PINs are listed on the front covers of the manuals. These numbers are used to identify the correct supporting manual for the machine.

***Product Identification Number—*** The product identification number (PIN) plate (1) is on the left side of the frame. Each machine has a 17-character PIN (2) shown on PIN plate.

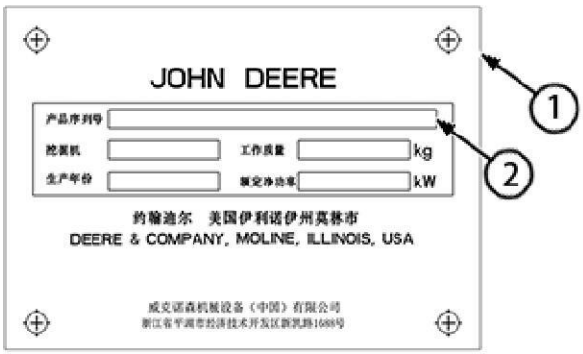
***Environmental Information Disclosure Number—*** The environmental protection information label (3) is on the bottom of the frame.

NOTE:

For China market, PIN is the machine environmental identification number.


YN1268792-UN: PIN Plate Location


YN1268793-UN: Environmental Protection Information Label Location




YN1271963-UN: China PIN Plate

LEGEND:

**1-PIN Plate**
**2-17-Character PIN**
**3-Environmental Protection Information Label**

The PIN identifies the producing factory, machine model number, machine option, year of manufacture, engine emission level, and machine serial number.

The following is an example for a machine that meets Stage 3 emission levels:

| *17-Character PIN Examples* | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ***1*** | ***2*** | ***3*** | ***4*** | ***5*** | ***6*** | ***7*** | ***8*** | ***9*** | ***10*** | ***11*** | ***12*** | ***13*** | ***14*** | ***15*** | ***16*** | ***17*** |
| W | N | C | E | 0 | 1 | 8 | A | _ | K | D | X | X | X | X | X | X |

***(1—3) World Code:*** Identifies location where machine is manufactured.

***WNC*** ..... ***World Code*** (manufacturing location)

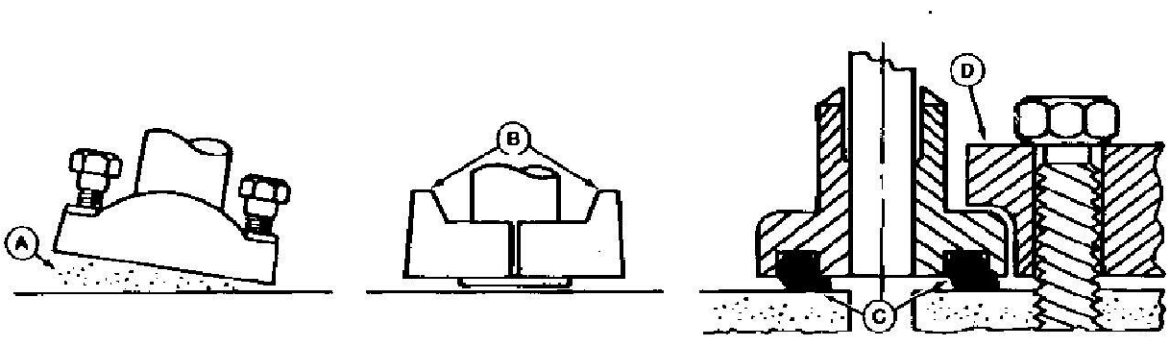
***(4—8) Machine Model Number:*** Identifies model number.

| ***E018A*** ..... | ***Machine Model Number*** |
|---|---|
| E..... | Excavator |
| 018..... | Machine Size |
| A..... | Machine Series |

***(9) Check Letter:*** This is a random character assigned by the factory. This is not used in machine identification.

_ ..... ***Check Letter*** (variable)

## Inch Series Four Bolt Flange Fitting for High-Pressure Service Recommendations




T6390BB-UN: Four Bolt Flange Fittings

LEGEND:

**A-Sealing Surface**
**B-Split Flange**
**C-Pinched O-Ring**
**D-Single Piece Flange**

**INCH SERIES FOUR BOLT FLANGE FITTING FOR 41 400 kPa (414 bar) (6000 psi) PRESSURE SERIES TORQUE VALUES—Tolerance is ± 10% unless otherwise specified.**

| Nominal Flange Size | Cap Screw Size [a] | Min—Max Torque |
|---|---|---|
| in | in | N·m (lb·ft) [b] |
| 1/2 | 5/16-18 UNC | 20—31 (15—23) |
| 3/4 | 3/8-16 UNC | 34—54 (25—40) |
| 1 | 7/16-14 UNC | 57—85 (42—63) |
| 1-1/4 | 1/2-13 UNC | 85—131 (63—97) |
| 1-1/2 | 5/8-11 UNC | 159—264 (117—195) |
| 2 | 3/4-10 UNC | 271—468 (200—345) |

[a] *JDM A17D, SAE Grade 5 or better cap screws with plated hardware. Lock washers are permissible but not recommended.*

[b] *Minimum torques given are enough for the given size connection with the recommended working pressure. Torques can be increased to the maximum shown for each cap screw size if desired. Increasing cap screw torque beyond the maximum will result in flange and cap screw bending and connection failures.*

1. Clean sealing surfaces (A). Inspect. Scratches, nicks, and burrs cause leaks. Roughness causes O-ring wear. Out-of-flat causes O-ring extrusion. If imperfection cannot be polished out, replace component.
2. Install the O-ring (and backup ring, if used) into groove. Use petroleum jelly to hold it in place.

**IMPORTANT:**

3. **DO NOT use air wrenches. DO NOT tighten one cap screw fully before tightening the others. DO NOT over tighten.**

   Split flange: Loosely assemble split flange (B) halves. Make sure split is centrally located and perpendicular to port. Hand tighten cap screws to hold flange halves and line in place. Do not pinch O-ring (C).

   Single piece flange (D). Make sure flange is centrally located on port and line is centered in flange. Install the cap screws. Hand tighten cap screws to hold flange and line in place. Do not pinch O-ring.

4. Tighten one cap screw and then the diagonally opposite cap screw. Tighten the two remaining cap screws. Tighten cap screws within the specified torque values.

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