

788/988 - 788/988 Plus Crawler Excavators
788/988 - 788/988 Plus Wheeled Excavators
Table of Contents

| DIVISION/SECTION | SECTION N° | REFERENCE N° |
|--|------------|--------------|
| 1 GENERAL INFORMATION | | |
| Safety, general and torque settings | 1001 | 7-56942GB |
| Specifications (Crawler excavators)..... | 1002 | 7-80071GB |
| Specifications (Wheeled excavators)..... | 1002 | 7-80062GB |
| 2 ENGINE | | |
| Engine removal and installation (788 - 988 - 988 Plus | 2002 | 7-58681GB |
| Engine removal and installation (788 Plus)..... | 2002 | 7-26560GB |
| Radiator and oil cooler | 2003 | 7-80621GB |
| Engine specifications | 2401 | ** |
| Cylinder head and valve assembly | 2415 | ** |
| Engine block | 2425 | ** |
| Lubrication system | 2445 | ** |
| Cooling system | 2455 | ** |
| Turbocharger..... | 2465 | ** |
| Turbocharger failure analysis..... | 2565 | ** |
| 3 FUEL SYSTEM | | |
| Fuel system and filter..... | 3410 | ** |
| CAV injection pump..... | 3411 | ** |
| BOSCH injection pump | 3412 | ** |
| Fuel injector | 3412 | ** |
| BOSCH ANEROID fuel injection pump..... | 3416 | ** |
| 4 ELECTRICAL SYSTEM | | |
| Electrical schematic (Crawler excavators) - (before November 1999)..... | 4001 | 7-80040GB |
| Electrical schematic (Wheeled excavators) - (before November 1999)..... | 4001 | 7-80021GB |
| Electrical schematic (Crawler excavators) - (November 1999 and after)..... | 4001 | 7-26570GB |
| Electrical schematic (Wheeled excavators) - (November 1999 and after)..... | 4001 | 7-26540GB |
| Electronic system and troubleshooting (Crawler excavators) | 4002 | 7-80031GB |
| Electronic system and troubleshooting (Wheeled excavators) | 4002 | 7-80051GB |
| Starter motor | 4003 | 7-58691GB |
| Alternator | 4004 | 7-58701GB |
| Powersensor diagnostic tool | 4010 | 7-79991GB |
| 5 UNDERCARRIAGE | | |
| Track group (Crawler excavators)..... | 5002 | 7-58711GB |
| 6 DRIVE TRAIN | | |
| Travel reduction gear and brake (Crawler excavators) | 6002 | 7-80661GB |
| Swing reduction gear and brake (788 - 788 Plus)..... | 6003 | 7-80671GB |
| Swing reduction gear and brake (988)..... | 6003 | 7-58731GB |
| Swing reduction gear and brake (988 Plus)..... | 6003 | 7-84141GB |
| Front axle and service brake (Wheeled excavators)..... | 6004 | 7-80681GB |
| Rear axle and service brake (Wheeled excavators) | 6005 | 7-80691GB |
| Gearbox and parking brake (Wheeled excavators) | 6008 | 7-80701GB |
| Twin wheels (Wheeled excavators) | 6020 | 7-26170GB |

* * Consult the engine Service Manual.

| DIVISION/SECTION | SECTION N° | REFERENCE N° |
|---|------------|--------------|
| 7 UNDERCARRIAGE HYDRAULICS | | |
| Hydraulic travel motor (Mono-speed crawler excavators)..... | 7002 | 7-80711GB |
| Hydraulic travel motor (Two-speed crawler excavators) | 7003 | 7-80721GB |
| Hydraulic travel motor (Wheeled excavators) | 7003 | 7-80731GB |
| Travel control valve (Crawler excavators)..... | 7030 | 7-80741GB |
| Travel, stabilizer and dozer blade control valve (wheeled excavators) | 7031 | 7-84151GB |
| Steering, stabilizer, dozer blade and front axle locking cylinders (wheeled excavators) | 7080 | 7-84161GB |
| 8 UPPERSTRUCTURE HYDRAULICS | | |
| Hydraulic inspection, adjustment and schematics (crawler excavators) | 8001 | 7-24590GB |
| Hydraulic inspection, adjustment and schematics (wheeled excavators) | 8001 | 7-24580GB |
| Hydraulic swivel (Crawler excavators) | 8011 | 7-80791GB |
| Hydraulic swivel (Wheeled excavators) | 8011 | 7-80801GB |
| Hydraulic pumps (788 - 788 <i>Plus</i>)..... | 8020 | 7-80211GB |
| Hydraulic pumps (988 - 988 <i>Plus</i>)..... | 8020 | 7-58862GB |
| Hydraulic swing pump..... | 8021 | 7-21700GB |
| Attachment control valve..... | 8031 | 7-80821GB |
| Swing control valve | 8033 | 7-80831GB |
| Rotary control valve (Orbitrol) (Wheeled excavators) | 8037 | 7-80841GB |
| Hydraulic swing motor and forced-feed safety block | 8040 | 7-80851GB |
| Attachment and swing control block | 8050 | 7-80261GB |
| Travel and option control block (Foot pedal, Wheeled excavators)..... | 8051 | 7-80270GB |
| Travel hand control block (Inching, wheeled excavators) | 8052 | 7-80870GB |
| Direction of travel inverter control block (Inching, crawler excavators)..... | 8053 | 7-80290GB |
| Travel control block (788 - 788 <i>Plus</i> 988 - 988 <i>Plus</i> wheeled excavators) | 8054 | 7-80301GB |
| Brake module (wheeled excavators)..... | 8060 | 7-80882GB |
| Parking brake electro-control valve (wheeled excavators) | 8061 | 7-80952GB |
| Electro-control valve block (Crawler excavators)..... | 8070 | 7-80321GB |
| Electro-control valve block (wheeled excavators)..... | 8071 | 7-84191GB |
| Selector block (788 <i>Plus</i>) | 8072 | 7-26650GB |
| Attachment cylinders..... | 8080 | 7-84201GB |
| Safety valve | 8081 | 7-26640GB |

| DIVISION/SECTION | SECTION N° | REFERENCE N° |
|--|------------|--------------|
| 9 UPPERSTRUCTURE | | |
| Upperstructure and turntable bearing | 9002 | 7-58932GB |
| Cab | 9004 | 7-58191GB |
| Large format hydraulic and electrical schematics (788 crawler excavators) - (before November 1999) | Pocket | 7-80190GB |
| Large format hydraulic and electrical schematics (788 wheeled excavators) - (before November 1999) | Pocket | 7-80200GB |
| Large format hydraulic and electrical schematics (988 crawler excavators) - (before November 1999) | Pocket | 7-58980GB |
| Large format hydraulic and electrical schematics (988 wheeled excavators) - (before November 1999) | Pocket | 7-58970GB |
| Large format hydraulic and electrical schematics (788 <i>Plus</i> crawler excavators) - (November 1999 and after) | Pocket | 7-26730GB |
| Large format hydraulic and electrical schematics (788 <i>Plus</i> wheeled excavators) - (November 1999 and after) | Pocket | 7-26760GB |
| Large format hydraulic and electrical schematics (988 <i>Plus</i> crawler excavators) - (November 1999 and after) | Pocket | 7-26770GB |
| Large format hydraulic and electrical schematics (988 <i>Plus</i> wheeled excavators) - (November 1999 and after) | Pocket | 7-26780GB |

Section

1001

**SAFETY, GENERAL INFORMATION
AND TORQUE SPECIFICATIONS**

SAFETY



WARNING: This symbol means **WARNING ! BE VIGILANT ! YOUR SAFETY IS AT RISK**. The message that follows the symbol contains important safety information. Read it carefully. Be sure you understand the possible risks of injury or even death.

To avoid all risks, always follow the safety notes contained in this section and throughout this manual.

Put the warning tag shown below on the key for the keyswitch when servicing or repairing the machine. One warning tag is supplied with each machine. Additional tags, Part Number 321-4614, are available from your service parts supplier.



PDG0328



WARNING: Read the Operator's Manual carefully and make sure you understand how to operate the controls correctly.



WARNING: Never operate the machine and attachment controls unless you are seated in the operator's seat. If you are not in the operator's seat, you run the risk of serious injury.



WARNING: The machine is built to carry the operator only. Do not allow passengers to ride on the machine.



WARNING : Prior to starting up the engine read the safety messages contained in the operator's manual carefully. Read all safety stickers on the machine. Have people move back from the machine. Learn how to use the controls before starting up the machine. It is your responsibility to follow the manufacturer's instructions on how to operate and maintain the machine. It is your responsibility to follow applicable rules and regulations. Service and Operator's Manuals are available from your J.I. Case Dealer.



WARNING: If you wear loose clothing or if you omit to use safety equipment for your work, you risk injury. Always wear clothes that do not risk getting caught in the machine. Other safety equipment may be necessary, in particular : helmets, safety shoes, ear plugs, safety glasses, protection mask, thick gloves and reflecting clothes.



WARNING: When working close to the fan with the engine running, avoid wearing loose clothing and operate with extreme caution.



WARNING: When checking the hydraulic circuits, follow procedures to the letter. **DO NOT CHANGE** procedures.

Thank you so much for reading.
Please click the “Buy Now!”
button below to download the
complete manual.



After you pay.

You can download the most
perfect and complete manual in
the world immediately.

Our support email:

ebooklibonline@outlook.com