

# Shop Manual

BULLDOZER

**D85EX -15R**

**D85PX -15R**

SERIAL NUMBERS

D85EX-20001

D85PX-20001

and up

**KOMATSU**

BULLDOZER

D85EX-15R

D85PX-15R

|               |               |
|---------------|---------------|
| Machine model | Serial number |
| D85EX-15R     | 20001 and up  |
| D85PX-15R     | 20001 and up  |

00 Index and foreword

100 Index

|                                  |   |
|----------------------------------|---|
| Composition of shop manual ..... | 2 |
| Table of contents .....          | 4 |

## Composition of shop manual

The contents of this shop manual are shown together with Form No. in a list.

Note 1: Always keep the latest version of this manual in accordance with this list and utilize accordingly.

The marks shown to the right of Form No. denote the following:

○: New issue (to be filed additionally) ●: Revision (to be replaced for each Form No.)

Note 2: This shop manual can be supplied for each Form No.

Note 3: To file this shop manual in the special binder for management, handle it as follows:

- Place a divider on the top of each section in the file after matching the Tub No. with No. indicated next to each Section Name shown in the table below:
- File overview and other materials in sections in the order shown below and utilize them accordingly.

| Section Title                                                       | Form Number   |
|---------------------------------------------------------------------|---------------|
| Shop Manual, contents binder, binder label and tabs .....           | SEN02947-03   |
| 00 Index and foreword .....                                         | SEN02948-03   |
| 100 Index .....                                                     | SEN02956-03 ● |
| 200 Foreword and general information .....                          | SEN02957-00   |
| 01 Specification .....                                              | SEN02949-00   |
| 100 Specification and technical data.....                           | SEN02958-00   |
| 10 Structure, function and maintenance standard.....                | SEN02950-00   |
| 100 Engine and cooling system .....                                 | SEN02959-00   |
| 201 Power train, Part 1 .....                                       | SEN02960-00   |
| 202 Power train, Part 2 .....                                       | SEN02961-00   |
| 300 Undercarriage and frame .....                                   | SEN02962-00   |
| 401 Hydraulic system, Part 1 .....                                  | SEN02963-00   |
| 402 Hydraulic system, Part 2 .....                                  | SEN02964-00   |
| 403 Hydraulic system, Part 3 .....                                  | SEN02965-00   |
| 500 Work equipment.....                                             | SEN02966-00   |
| 600 Cab and its attachments .....                                   | SEN02967-00   |
| 700 Electrical system .....                                         | SEN02968-00   |
| 20 Standard value table.....                                        | SEN02951-00   |
| 100 Standard service value table.....                               | SEN03166-00   |
| 30 Testing and adjusting .....                                      | SEN02952-02   |
| 101 Testing and adjusting, Part 1.....                              | SEN03167-02 ● |
| 102 Testing and adjusting, Part 2.....                              | SEN03168-01 ● |
| 103 Testing and adjusting, Part 3.....                              | SEN03169-00   |
| 40 Troubleshooting.....                                             | SEN02953-01   |
| 100 Failure code table and fuse locations .....                     | SEN03170-00   |
| 200 General information on troubleshooting.....                     | SEN03171-01   |
| 301 Troubleshooting by failure code (Display of code), Part 1 ..... | SEN03172-00   |
| 302 Troubleshooting by failure code (Display of code), Part 2 ..... | SEN03173-00   |
| 303 Troubleshooting by failure code (Display of code), Part 3 ..... | SEN03174-00   |
| 304 Troubleshooting by failure code (Display of code), Part 4 ..... | SEN03175-00   |
| 400 Troubleshooting of electrical system (E-mode).....              | SEN03176-00   |

|                                                                      |             |
|----------------------------------------------------------------------|-------------|
| 500 Troubleshooting of hydraulic and mechanical system (H-mode)..... | SEN03177-00 |
| 600 Troubleshooting of engine (S-mode).....                          | SEN03178-00 |
| 50 Disassembly and assembly .....                                    | SEN02954-01 |
| 100 General information on disassembly and assembly.....             | SEN03309-00 |
| 201 Engine and cooling system, Part 1.....                           | SEN03310-01 |
| 202 Engine and cooling system, Part 2.....                           | SEN03311-00 |
| 301 Power train, Part 1.....                                         | SEN03312-00 |
| 302 Power train, Part 2.....                                         | SEN03313-01 |
| 401 Undercarriage and frame, Part 1.....                             | SEN03314-00 |
| 402 Undercarriage and frame, Part 2.....                             | SEN03315-00 |
| 500 Hydraulic system .....                                           | SEN03316-00 |
| 600 Work equipment .....                                             | SEN03317-00 |
| 700 Cab and its attachments.....                                     | SEN03318-00 |
| 800 Electrical system .....                                          | SEN03319-00 |
| 90 Diagrams and drawings .....                                       | SEN02955-00 |
| 100 Hydraulic diagrams and drawings .....                            | SEN02969-00 |
| 200 Electrical diagrams and drawings.....                            | SEN02970-00 |

## Table of contents

### 00 Index and foreword

|                                                                     |             |
|---------------------------------------------------------------------|-------------|
| 100 Index                                                           | SEN02956-03 |
| Composition of shop manual .....                                    | 2           |
| Table of contents .....                                             | 4           |
| 200 Foreword and general information                                | SEN02957-00 |
| Safety notice .....                                                 | 2           |
| How to read the shop manual .....                                   | 7           |
| Explanation of terms for maintenance standard .....                 | 9           |
| Handling of electric equipment and hydraulic component .....        | 11          |
| Handling of connectors newly used for engines .....                 | 20          |
| How to read electric wire code .....                                | 23          |
| Precautions when carrying out operation .....                       | 26          |
| Method of disassembling and connecting push-pull type coupler ..... | 29          |
| Standard tightening torque table .....                              | 32          |
| Conversion table .....                                              | 36          |

### 01 Specification

|                                             |             |
|---------------------------------------------|-------------|
| 100 Specification and technical data        | SEN02958-00 |
| Specification dimensions .....              | 2           |
| Specifications .....                        | 3           |
| Weight table .....                          | 12          |
| Table of fuel, coolant and lubricants ..... | 16          |

### 10 Structure, function and maintenance standard

|                                                           |             |
|-----------------------------------------------------------|-------------|
| 100 Engine and cooling system                             | SEN02959-00 |
| Engine mount .....                                        | 2           |
| Cooling system .....                                      | 4           |
| Cooling fan pump .....                                    | 6           |
| Cooling fan motor .....                                   | 14          |
| 201 Power train, Part 1                                   | SEN02960-00 |
| Power train .....                                         | 2           |
| HSS system .....                                          | 4           |
| General view of power train unit .....                    | 6           |
| Power train hydraulic piping drawing .....                | 8           |
| Transmission control .....                                | 9           |
| Steering and brake control .....                          | 10          |
| Damper and universal joint .....                          | 12          |
| Torque converter and PTO .....                            | 14          |
| Transmission .....                                        | 20          |
| Transmission clutch ECMV .....                            | 36          |
| Main relief valve and torque converter relief valve ..... | 41          |
| Lubrication relief valve .....                            | 43          |
| 202 Power train, Part 2                                   | SEN02961-00 |
| Bevel gear shaft, HSS and brake .....                     | 2           |
| Brake valve .....                                         | 22          |
| Final drive .....                                         | 28          |
| 300 Undercarriage and frame                               | SEN02962-00 |
| Main frame .....                                          | 2           |
| Suspension .....                                          | 4           |
| Track frame .....                                         | 8           |
| Idler cushion .....                                       | 10          |
| Idler .....                                               | 12          |
| Track roller .....                                        | 14          |
| Carrier roller .....                                      | 16          |
| Sprocket .....                                            | 18          |

It's a preview. You can download the full file by clicking the link below.

**<https://shop servicemanual.com/>**

Service Manuals from 2\$