



# Service Repair Manual

## **Models**

# E70B TRACK EXCAVATOR

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Product: EXCAVATOR

Model: E70B EXCAVATOR 6AK

Configuration: E70B TRACK-TYPE EXCAVATOR 6AK00001-UP (MACHINE) POWERED BY 4D32 ENGINE

## General Service Information

### E70B EXCAVATOR TRAVEL DRIVE AND MOTOR

Media Number -SEN4584-00

Publication Date -01/08/1989

Date Updated -11/10/2001

## General Notes

\* This machine has been designed conforming to JIS (Japanese Industrial Standard) requirements in which all measurements are based on the metric system. And this manual, wherever practical, these measurements are shown to the nearest fraction in feet, pound, etc., but whenever in doubt, the metric value shown should be used.

\* Numbers indicated in ( ) in this manual are the part numbers given in structural and exploded diagrams.

\* Specifications are subject to change with or without notice owing to improvements, that may be introduced after publication of this manual.

### Conversion table for metric system indications into Foot-pound units (U.S.A.)

| Unit                    | Sign of metric unit | Sign of foot-pound unit | Conversion rate   |
|-------------------------|---------------------|-------------------------|---|
| Mass quantity of matter | kg<br>g             | lb<br>oz                | 1 kg = 2.2046 lbs<br>1 g = 0.035274 oz                      |
| Dimension               | m<br>cm<br>mm       | ft.<br>in.<br>in.       | 1 m = 3.2808 ft.<br>1 cm = 0.3937 in.<br>1 mm = 0.03937 in. |
| Capacity                | ℓ<br>cc             | gal.<br>oz              | 1 ℓ = 0.264 gal. (U.S.)<br>1 cc = 0.033014 oz (U.S.)        |
| Pressure                | kgf/cm <sup>2</sup> | psi                     | 1 kgf/cm <sup>2</sup> = 14.223 psi                          |
| Torque                  | kgf.m<br>kgf.cm     | ft.lb.<br>ft.lb.        | 1 kgf.m = 7.22 ft.lb.<br>1 kgf.cm = 0.0722 ft.lb.           |
| Temperature             | °C                  | °F                      | °F = 1.8 × (°C) + 32  |
| Moment of force         | kgf                 | lbf                     | 1 kgf = 2.205 lbf   |

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## Specifications

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### 1. General

| Item                    | Unit                       | Specifications         | Remarks  |
|-------------------------|----------------------------|------------------------|--|
| Name                    | —                          | Travel drive and motor | Brake valve and parking brake valve are built in the motor unit. |
| Output torque (maximum) | kgf-m (lb.-ft.)            | 719 (5191)             |  |
| Speed (maximum)         | rpm (min. <sup>-1</sup> )  | 38.9                   |  |
| Equivalent capacity     | cc (in. <sup>3</sup> )/rev | 2433.6 (148.4)         |  |
| Rated pressure          | kgf/cm <sup>2</sup> (psi)  | 320 (4551)             |  |

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### 2. Travel motor

| Item                  | Unit                       | Specifications | Remarks |
|-----------------------|----------------------------|----------------|---------|
| Name                  | —                          | Plunger motor  |         |
| Piston displacement   | cc (in. <sup>3</sup> )/rev | 26 (1.6)       |         |
| Working pressure drop | kgf/cm <sup>2</sup> (psi)  | 320 (4551)     |         |
| Output speed          | rpm (min. <sup>-1</sup> )  | 2499           |         |
| Flow rate             | ℓ/min. (U.S.gpm)           | 67 (17.7)      |         |

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| Item             | Unit             | Specifications | Remarks   |
|------------------|------------------|----------------|---|
| Name             | —                | Brake valve    |   |
| Rated flow rate  | ℓ/min. (U.S.gpm) | 100 (26.4)     |   |
| Control function |                  |                | Hydraulic braking on motor by counterbalance function |

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| Item             | Unit                      | Specification | Remarks  |
|------------------|---------------------------|---------------|--|
| Name             | —                         | Parking brake |  |
| Braking torque   | kgf·m (lb.ft.)            | 8.4 (50.6)    |  |
| Release pressure | kgf/cm <sup>2</sup> (psi) | 9 (128)       | Mechanical braking on motor by friction plate. |
| Control function | —                         | —             |  |

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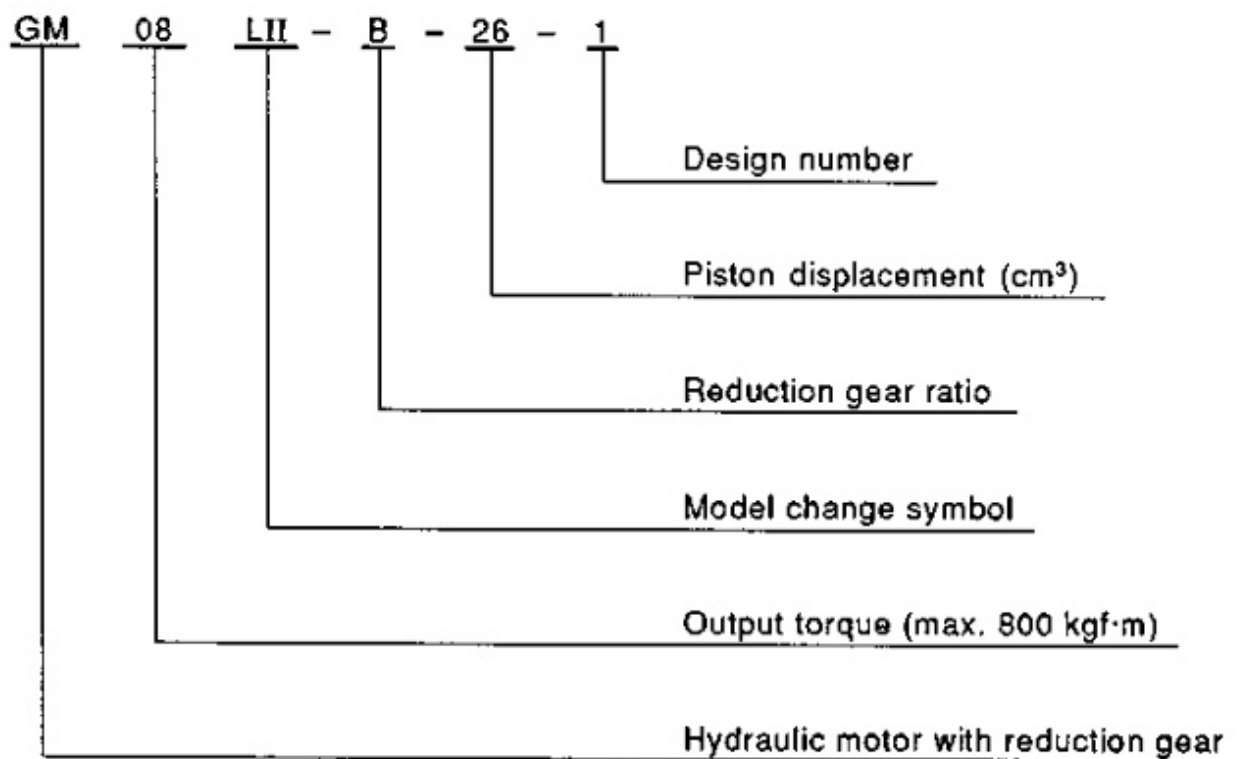
### 3. Travel gear

| Item                       | Unit                      | Specifications   | Remarks |
|----------------------------|---------------------------|--|---------|
| Name                       | —                         |  |         |
| Type of power transmission | —                         | One-stage reduction by spur gears and differential gears |         |
| Reduction ratio            | —                         | 1/54.3   |         |
| Type of gear lubrication   | —                         | Oil bath   |         |
| Gear oil capacity          | ℓ (gal)                   | 1.2 (0.317)  |         |
| Output speed range         | rpm (min. <sup>-1</sup> ) | 0 to 38.9  |         |
| Direction of rotation      | —                         | Reversible   |         |
| Output torque (maximum)    | kgf·m (lb.ft.)            | 719 (5191)   |         |

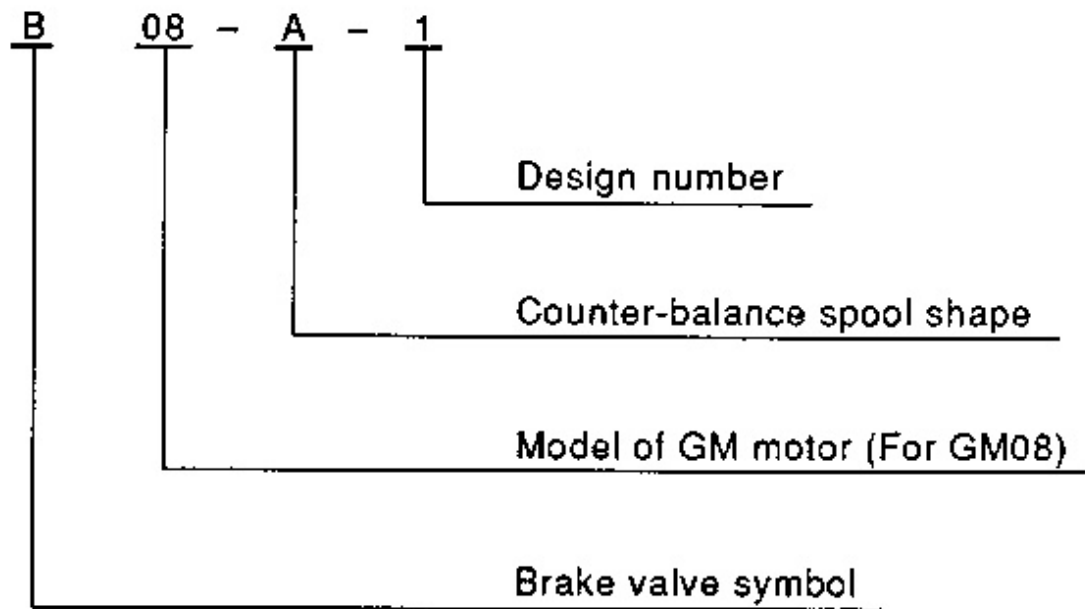
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## Model Notation

Travel motor



Brake valve



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