



# Service Repair Manual

## **Models**

# E70B EXCAVATOR

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Product: EXCAVATOR

Model: E70B EXCAVATOR 5TG

Configuration: E70B TRACK-TYPE EXCAVATOR 5TG00001-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 g	lb oz	1 kg = 2.2046 lbs 1 g = 0.035274 oz
Dimension	m cm mm	ft. in. in.	1 m = 3.2808 ft. 1 cm = 0.3937 in. 1 mm = 0.03937 in.
Capacity	ℓ cc	gal. oz	1 ℓ = 0.264 gal. (U.S.) 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 kgf.cm	ft.lb. ft.lb.	1 kgf.m = 7.22 ft.lb. 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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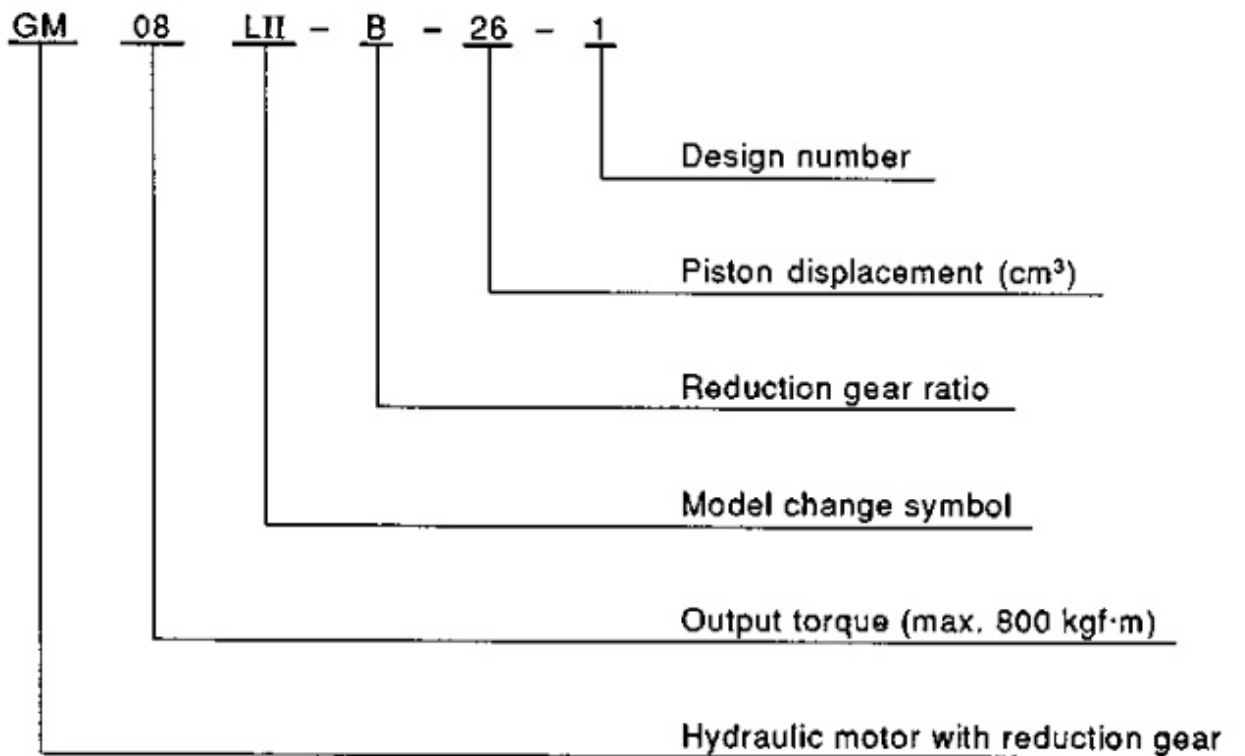
### 3. Travel gear

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)	

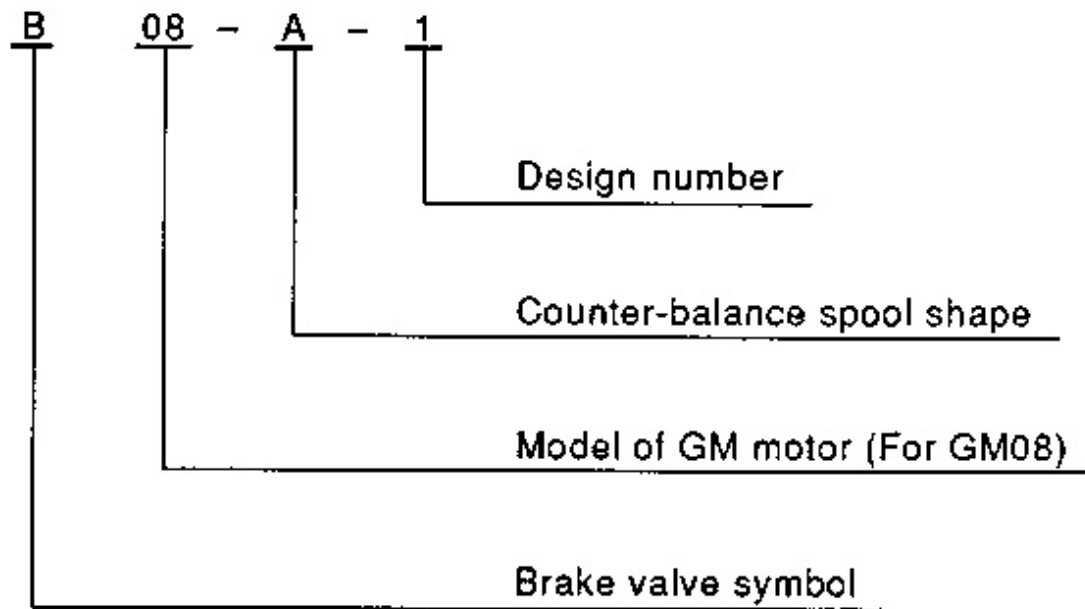
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## Model Notation

Travel motor



Brake valve



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