### HYDRAULIC EXCAVATOR

## SHOP MANUAL

# model

## SK 220 SK 22010

This is the shop manual for KOBELCO hydraulic excavator. Contained is the necessary technical data concerning the maintenance and repair of this model. The manual is divided into the following four major sections; GENERAL, SYSTEMS, COMPONENTS and PROCEDURE.

LQ01.	SPECIFICATION	LQ05.	TROUBLE SHOOTING
LQ02.	OPERATION AND CONTROLS	LQ06.	PREVENTIVE MAINTENANCE
LQ03.	LOCATION AND WEIGHT OF COMPONENTS		(Refer to Operators Manual)
LQ04.	MAINTENANCE STANDARD AND	LQ07.	WORKING STANDARD
	TEST PROCEDURE		

#### \*SYSTEMS

LQ11.	DRIVE SYSTEM	LQ22.	CONTROL SYSTEM
LQ12.	HYDRAULIC SYSTEM	LQ23.	UPPER FRAME
LQ15.	SWING SYSTEM	LQ25.	ELECTRICAL SYSTEM
LQ18.	TRAVEL SYSTEM	LQ26.	AIR-CONDITIONER SYSTEM
LQ21.	ATTACHMENTS	LQ50.	ENGINE
OMPO	NENTS		

ONENIS	
12. HYDRAULIC PUMP	16. SWIVEL JOINT
13. CONTROL VALVE	17. HYDRAULIC CYLINDER
14. OTHER VALVES	21. REDUCTION UNIT
15. HYDRAULIC MOTOR	

When checking or repairing the machine we suggest that you refer to this manual carefully. We hope that reference to this manual will help to maintain a high level of working efficiency and reliability. For further details on maintenance and checks refer to the "OPERATORS MANUAL" which has been supplied with the machine.

Although all data was correct at the time of printing, due to continual design changes and improvements, some contents may not conform to the actual machine. Take special care to order parts only after confirming the validity of the part number in the "PARTS MANUAL".

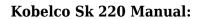
If you notice any explanatory discrepancies, after consulting one of our representatives, please update your manual according to the latest data. However, in the event of any specification changes, we will issue revised edition.

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SJ Ball



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white cheese similar to feta old cheese kaşar peyniri black and or green olives zeytin butter thick cream kaymak honey jam an omelet or boiled eggs yumurta are regular players of the game the surprise ingredients are sucuklu yumurta and börek these two are the most common dishes served to spoil the guests

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