
Hydraulics

Hydraulics equipments review

Hydraulics equipments review	
Interchangeability	
Hydraulics diagram review	
1	New feature; Straight Travel
2	New feature; Swing Speed limit
3	New feature; Swing Relief Cut Off
4	New feature; Swing Parking
5	New feature; Bucket Regeneration
6	New feature; Power Save:Negative Control
7	New feature; HYD HP Boost - Arm in
8	New feature; HYD HP Boost - Travel
9	New feature; Cushon valve
10	New feature; Auto Power Boost
11	New feature; Option line
Maintenance Procedure	
New Return Filter	

Major Hydraulic Components Review

Hyd. Component Review

Interchangeability

Interchangeability

1. Main Part Interchangeability Table (SH200-5)

Position	Part name	SH200-3	Interchangeability	SH200-5	Remarks
Lower related	A Travel motor	KRA10120	← x →	KRA10150	Drive force increased
	Shoe (600 mm)	KRA1788	← O →	KRA1788	
	Lower roller	KRA1189	← O →	KRA10360	Contact surface with link machining added
	Upper-roller	KRA1717	← O →	KRA1717	
	Take-up roller	KRA1767	← O →	KRA1767	
	Recoil spring	KRA1776	← x →	KRA10170	Specifications change
	Drive sprocket	KRA1665	← O →	KRA10160	Tooth shape change
	Center joint	KRA1875	← O →	KRA11190	The lock bar is different.
Upper related	B Counterweight	KRB1541	← x →	KRB12620	Shape change
	Turntable bearing	KRB10160	← x →	KRB11710	Power increased
	C Swing motor assembly	KRC0226	← x →	KRC10010	Specifications change
	Swing motor	LJ01076	← x →	-	
	Swing reduction gear	LN00111	← x →	-	
	H Engine	KRH1633	← x →	KRH10840	Third engine
	Radiator / oil cooler	KRH1628	← x →	KRH10810	Parallel type used
	Air cleaner	KRH1569	← x →	KRH10050	Indicator position change
	Muffler	KRH1277	← x →	KRH10060	Size increase
	Fuel tank	KRH1352	← x →	KRH10800	Capacity increase
	J Hydraulic pump	KRJ6199	← x →	KRJ10290	Specifications change
	Control valve	KRJ10420	← x →	KRJ10310	Specifications change
	Remote control valve (operating machine)	KRJ5804	← x →	KHJ13270	Specifications change
	Remote control valve (travel)	KRJ5803	← O →	KRJ5803	
	Hydraulic oil tank	KRJ6216	← x →	KRJ15660	Shape change
	N Cab	KHN10020	← x →	KHN12030	Structure change
	Operator seat	KHN3470	← x →	KHN10500	Suspension change
	Console box	KHN3237	← x →	KHN12200	Design change
	R Controller	KHR2680	← x →	KHR10020	Specifications change
	Monitor display	KHR3825	← x →	KHR10051	Design change
Air conditioner unit	KHR4135	← O →	KHR13320	Unit main unit only interchangeable	
Attachment related	V Boom (EMS)	KRV17890	← x →	KRV20180	Specifications change
	Arm (EMS)	KRV17610	← x →	KRV20190	The arm tip section has a steel bushing.
	Bucket (0.8 m ³)	KRV2783	← O →	KRV19330	Bottom plate change
	Bucket link	KRV3079	← x →	KRV20240	The bucket link section has a steel bushing.
	Arm link	KRV2365 KRV2366	← x →	KRV2365 KRV2366	
	Boom cylinder	KRV2952 KRV2953	← x →	KRV11130 KRV11140	Specifications change
	Arm cylinder	KRV2954	← x →	KRV11150	Specifications change
	Bucket cylinder	KRV2955	← x →	KRV11160	Specifications change
	Pin bushing				Arm top and bucket pin only interchangeable

The parts numbers are for reference. When arranging for parts, check with the parts manual.



Hyd. Component Review

Hydraulic pump

Position	Part name	SH200-3	Interchangeability	SH200-5	Remarks
J	Hydraulic pump	KRJ6199	<-- X -->	KRJ10290	Spec. changed

Basic system & structure are similar to -3.

Differences

- **Increased Expelling volume**  **5 % Increase for pump flow**
 - 3 model -5 model
 - 103cc/rev → 117cc/rev
 - 2x201 l/mn → 2x211 l/mn (H mode)
- **New valve plate, New pump housing**
Lower noise
- **Clearance improve of regulator piston**  **2 % Improvement for fuel consumption**
Decrease internal leakage

Hyd. Component Review

Hydraulic pump

- **Pump P1 Add a Flow solenoid valve**
Add a shuttle valve
For Swing speed limit, Swing relief cut off,
Option line flow control, and Power save system
- **Pump P2 Add a Shuttle valve**
For Power Save System