KOBELCO

SERVICE MANUAL

WHEEL LOADER

LK350 II

Applicable: LK350 II RL-3801~

S5RL00004E-00 06/88

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(2) Check the error acction detail

EXAMPLE OF NORMAL DISPLAYS ON MARK III MULTI-DISPLAY ※ Figures are displayed, but the data has no relation.

No.	DIAGNOSIS DISPLAY	CONTENTS OF DISPLAYS	SK300-III	SK400-III	REMARKS
1	P/No.	Controller P/No	2480U 351F1	2480U 351F1	
2	S1 wtmp	Therma switch temperature	OPEN	←	105℃(221°F) (SK300 ONLY)
3	S2 opes	E/G Oil pressure E/G Sermometer unit	OPEN	←	95℃(221°F)
4	S3 cpu	Mechatro IP connector	CLOSE	←	
5	S4 smod	S mode select switch	S,D mode CLOSE	←	
			H,FC mode OPEN	←	
6	S5 hmod	H mode select switch	H mode CLOSE	←	
			S,FC,D mode OPEN	←	
7	S6 att	ATT Boost switch	At Att boost CLOSE	←	
8	S7 des	Auto accel pressure switch	Decel/On OPEN	←	
			Decel/Off CLOSE	←	
			In lever operation CLOSE	←	
9	S8 bzsp	Buzzer stop switch	OPEN	←	
10	S9 jpin	Controller inside switch	OPEN	←	
11	S10 keys	Key switch Br terminal	CLOSE	←	
12	S11 lims	Stepping motor limit switch	OPEN	←	
13	S12 boom	Slewing pressure switch	Lever neutral OPEN	←	
			Slewing CLOSE	←	
14	AD1 accl	Accel potentiometer	Low 2	3	
			High 253	252	
15	AD2 boom	Loading potentiometer	Up 2	1	
			In 96	97	
			Down 255	255	
16	AD3 motA	Stepping motor A phase current value	33~38	33~38	
17	AD4 motB	Stepping motor B phase current value	33~38	33~38	
18	AD5 isvP	KPSS solenoid valve current valve (Control read current value)	10~12	10~12	E/G Low no load
			29~32	29~32	E/G Low arm relief
			7~8	7~8	E/G High no load
			7~8	7~8	E/G High arm relief
19	AD6 isvB	Loading solenoid current value (Control read current value)	38~47	38~47	
20	11 pump	KPSS solenoid valve current value mA (Control read current value)	215~230	215~230	E/G Low no load
			590~640	590~640	E/G Low arm relief
			150	150	E/G High no load
			150	150	E/G High arm relief
21	12 boom	Loading solenoid current value mA (Controller instructed value)	800	800	
22	POS	Stepping motor position	205	210	Low idle
			405	420	High idle
23	r.p.m	E/G revolution	862 868	862 868	Low idle
			1926 1930	2186 2190	High idle
24	18V	Source voltage 18V or more	OVER	OVER	

(1) The engine does not stop.

(2) The engine does not start.

(3) Check engine rpm by the mulchi-display.

(4) The engine stops or the engine revolution falls when loaded.

(5) Stepping motor actuate error.

(6) The height (Hi) idling revolution is low.

(7) Engine revolution is low.(at both Hi and Lo).

(8) CPU display comes out.

Blown fuse	Check fuses (For controller 5A)
Controller out of order	
Link interfere with each other	Check links for interference
Heater relay burnout	Check coil resistance. Sdtandard value: about 12Ω Check fuse [For key switch 15A (~ m/c), 20A (~ m/c)]
Governor clearance not adjusted correctly	HI side (E/G stopped & key ON) ; Accel Hi check governor clearance 0.2mm (0.008")
	STOP side (E/G stopped & key ON) ; →Key off, less than 4sec governor clearance 0.1mm (0.004")
Key switch relay faulty	Check coil resistance. Sdtandard value: about 250Ω
Controller poor contact	Shake harnesses.

OPEN indication comes out when the key switch is turned off. — Yes → Check the stepping motor.

No → Check the diodes between the controller and the key switch relay. (Not use m/c~) → Replace diodes.

Replace the potentiometer.

Check the connector into the stepping motor by shaking hand. — No → Replace the stepping motor.

Is resistance valve of solenoid not normal? Standard valve 13.5±0.7Ω — No → Replace solenoed valve.

Multiply the reading of item 18 by 20, compare it with the value of item 20 and check if they are equal. — No / Yes

Yes → (Check that the proportionate valve is not stuck. Also check the hydraulic systems.)

The stepping motor gears are worn out. (cause)

Replace fuses.

Replace controller.

Change battery or replace it.

Correct interference.

Replace the heater relay.

Readjust.

Replace the key switch relay.

Replace or correct the terminals.

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