KOBELCO

SHOP MANUAL

HYDRAULIC EXCAVATOR

SK235SR-1ES
SK235SRLC-1ES
SK235SRNLC-1ES

S5YF0003E-01 NA

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2. ELECTRICAL EQUIPMENT

2.1 ELECTRIC EQUIPMENT LIST

Group	Code	NAME	PART No. KCME & KCMA	PART No. OCEANIA
CONTROLLER	C−1	Mechatro controller (KCMA)	YF22E00004F1	—
	C−1	Mechatro controller (KCME)	YF22E00001F2	—
	C−1	Mechatro controller (OCE)	—	YF22E00003F2
	C−2	Gauge cluster (KCMA)	YY59S00003F1	—
	C−2	Gauge cluster (KCME)	YY59S00003F2	—
	C−2	Gauge cluster (OCE)	—	YV59S00004F2
	C−4	Air conditioner amp.	YT20M00004S036	←
	C−5	Air conditioner panel	YT20M01104F1	←
	C−6	IT controller (ORBCOMM)	YN20E00114F1	←
DIODE	D−1	Diode	YN02D01001P1	←
	D−2	Diode	↑	←
	D−3	Diode	↑	←
	D−4	Diode	2475R132	←
	D−5	Diode	YN02D01001P1	←
	D−6	Diode	↑	←
	D−10	Diode	—	YN02D01001P1
	D−11	Diode	—	↑
ELEC EQUIPMENTS	E−1	Fuse box (KCMA)(KCME)	YF73E00001F1	—
	E−1	Fuse box (OCE)	—	YY73E00001F1
	E−2	Alternator	ME017614	←
	E−3	Hour meter	YT58S00006P1	←
	E−4	Horn low	CM53S00002F2	←
	E−5	Horn high	CM53S00002F1	←
	E−6	Cigarette lighter	24241R180F1	←
	E−7	Tuner AM&FM (KCME)	Locnaly procured parts	YN54S00013P1
	E−7	Tuner AM&FM (KCMA)	LB54S00001P1	—
	E−8	Speaker left	YT54S00006P1	←
	E−9	Speaker right	↑	←
	E−10	Receiver drier	YT54S00002P1	←
	E−11	Air compressor clutch	YX91V00001F1	←
	E−13			
	E−14	Resistor	LC22E01001D1	←
	E−15	Travel alarm (KCMA)	YN53S00002F1	←
	E−16	DC-DC converter	YT77S00001P1	←
	E−17	Socket (12V)	YN81S00001P1	—
	E−22	Antenna (Cab side)	YT54S00001P1	←
	E−23	Antenna	YN54S00026P1	YN54S00038P1
	E−24	GPS antenna	YN54S00027P1	YN54S00037P1
	E−25	Battery	YN72S00004P1	YN72S00001P1
LIGHT	L−1	Boom working light	YW80S00001F1	←
	L−2	Working light right deck	YN80S00010F1	←
	L−3	Room light	YT80S00001P1	←
	L−4	Cab work light (Front 1) (KCME STD. KCMA OPT.)	YN80S00010F2	—
	L−5	Cab work light (Front 2) (KCME STD. KCMA OPT.)	↑	—
	L−6	Cab work light (Front 3)(KCME)	↑	—
	L−7	Cab work light (Front 4)(KCME)	↑	—
	L−8	ENG. Room light	4056R4F1	—
	L−9	Boom working light right	YW80S00001F1	←
	L−10	Cab work light (Rear)(KCME)	YN80S00010F2	—
	L−11	Swing flasher lamp (Right)(KCMA)	YY80S00001F1	—
	L−12	Swing flasher lamp (Left) (KCMA)	↑	—
	L−15	Rotary light (KCME)	Locnaly procured parts	—

Group	Code	NAME	PART No. KCME & KCMA	PART No. OCEANIA
MOTOR	M−1	Starter motor	ME049303	←
	M−2	Governor motor	YN26S00002F1	←
	M−3	Wiper motor	YT53C00011F1	←
	M−4	Washer motor	YT54C00003S001	←
	M−9	Fuel pump (opt.)	YF22P00002F1	←
	M−11	Fuel supply pump (KCME STD. KCMA OPT)	YF22P00003F1	—
PROPORTIONAL SOLENOID VALVE	—	Proportional sol. Assy	YB35V00002F2	←
	PSV−A	Arm valiable recirculation proportional sol.	YB35V00005F1	←
	PSV−B	P2 bypass cut proportional sol.	↑	←
	PSV−C	Travel priority proportional sol.	↑	←
	PSV−D	P1 bypass cut proportional sol.	↑	←
	PSV−G			
	PSV−P1	P1 pump proportional sol.	YF10V00002F2	(pump assy)
	PSV−P2	P2 pump proportional sol.	YB35V00003F1	(solenoid valve)
RELAY	R−1	Battery relay	YN24S00003F1	←
	R−2	Starter relay	ME701597	←
	R−3	Glow relay	ME072890	←
	R−4	Safety relay	ME077148	←
	R−5	Wiper motor relay	EN24S00008P1	←
	R−6	Washer motor relay	↑	←
	R−7	Horn relay	↑	←
	R−8	Work light relay	↑	←
	R−9			
	R−10	Cab work light relay 1 (KCME STD. KCMA OPT.)	EN24S00008P1	—
	R−11	Cab work light relay 2 (KCME)	↑	—
	R−18	Travel alarm relay (KCMA)	↑	—
	R−19	Flasher relay (OPT.)	YY24S00001P1	—
	R−20	Timer relay	YN25S00001P1	←
	R−26	Extra pressure release relay	EN24S00008P1	←
	R−28	Auto idle stop relay 1	LC24S00001P1	←
	R−29	Auto idle stop relay 2	EN24S00008P1	←
SENSOR	SE−1	Press. sensor (low) : Bucket digging	LC52S00011P1	←
	SE−2	Press. sensor (low) : Bucket dump	↑	←
	SE−3	Press. sensor (low) : Boom up	↑	←
	SE−4	Press. sensor (low) : Boom down	↑	←
	SE−5	Press. sensor (low) : Swing	↑	←
	SE−6			
	SE−7	Press. sensor (low) : Arm in	LC52S00011P1	←
	SE−8	Press. sensor (low) : Arm out	↑	←
	SE−9	Press. sensor (low) : Travel right	↑	←
	SE−10	Press. sensor (low) : Travel left	↑	←
	SE−11	Press. sensor (low) : OPT.1	↑	←
	SE−12			
	SE−13	ENG. Revolution sensor	MC849677	←
	SE−14	Coolant thermo sensor	YT52S00001P1	←
	SE−15	Fuel sensor	YF52S00001F1	←
	SE−16	Accel potentio	YN52S00032P1	←
	SE−20	Press. sensor (low) : OPT.2	LC52S00011P1	←
	SE−21			
	SE−22	Press. sensor (high) : P1 pump	LC52S00012P1	←
	SE−23	Press. sensor (high) : P2 pump	↑	←
	SE−24	Extra drain press	↑	—

Group	Code	NAME	PART No. KCME & KCMA	PART No. OCEANIA
SOLENOID	—	Solenoid valve assy	YB35V00002F2	←
	SV−1	Swing parking brake SOL.	YB35V00006F1	←
	SV−2	Power boost SOL.	YT35V00013F1	←
	SV−3	Two-speed select SOL.	↑	←
	SV−4	Operating lever lock SOL.	↑	←
	SV−5	Breaker SOL.	LE35V00001F2	←
	SV−6	Clockwise SOL.	LC35V00004F2	←
	SV−7	Counterclockwise SOL.	↑	←
	SV−9	Nibbler open SOL.	LC35V00004F2	←
	SV−10	Nibbler close SOL.	↑	←
	SV−11	Extra depressure SOL.		
SWITCH	SW−1	Key SW.	YN50S00026F1	←
	SW−2			
	SW−3	Two-speed select SW.	YN03M01286S002	←
	SW−4	Swing parking release SW.	YT50E00001F1	←
	SW−5	KPSS. Mode release SW.	YN50S01003P1	←
	SW−6	ENG. Water temp. SW.	ME039860	←
	SW−7	ENG. Oil press. SW.	MC840219	←
	SW−8	Air filter restriction SW.	YR11P00008S005	←
	SW−9	ENG. Oil level SW.	MC867765	←
	SW−10	Horn SW. (Left)	YN50E01001P1	←
	SW−11	Level lock SW.	YN50S01001P1	←
	SW−13	Air conditioner SW.	YT20M01104F1	←
	SW−16	Auto accel release SW.	2479U1190F7	←
	SW−17	ENG. Coolant level SW.	2427U203S6	←
	SW−18	Hyd. fluid level SW.	YN52S00023P1	←
	SW−19	Swing flasher select SW.(KCMA)	2479U1190F19	←
	SW−20	Horn SW. (Right)	YN50E01001P1	←
	SW−21	Work light SW.	2479U1190F1	←
	SW−22	Conflux single select SW. (OPT.)	2479U1190F29	←
	SW−23	Wiper interlock SW.	YT50E00003P1	←
	SW−30	Rotary light SW. (KCME)	2479U1190F20	—
	SW−32	Overload indicate SW. (KCME)	2479U1190F33	—
	SW−34	Power boost SW.	YN50E01001P1	←
	SW−35	Heavy lift SW.	2479U1190F13	←
	SW−37	Hyd. fluid temp SW. (KCMA OPT.)	2479R2348	—
	SW−38	Warm up SW. (KCMA OPT.)	2479R1190F31	—
	SW−39	Overload SW. (KCME)	Locnaly procured parts	←
	SW−41	Travel alarm SW. (OPT.)	—	2479U1190F16
	SW−42	ENG. Room light SW. (KCME STD. KCMA OPT.)	YT50S00005P1	—
	SW−45	Handle assy. (breaker SW.)(KCME)	LF03M01005F3	—
	SW−46	Clockwise SW. (KCME)	↑	—
	SW−47	Counterclockwise SW. (KCME)	↑	—
	SW−48	Nibbler open SW. (KCME)	↑	—
	SW−49	Nibbler close SW. (KCME)	↑	—
	SW−52	Auto idle stop select SW.	YN50S01004D5	← (OPT.)
	SW−A	Cab door SW.	YT50S00004P1	←
	SW−B	Extra SW.	2479U1190F21	←

Note : 1. The part numbers and serial numbers of machine may be changed due to modification, so use only the numbers for references.
2. In case of KCMA, item R-28,29 and SW-52 are not equipped.

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