

CATERPILLAR SR4

5JA / SEBP1532

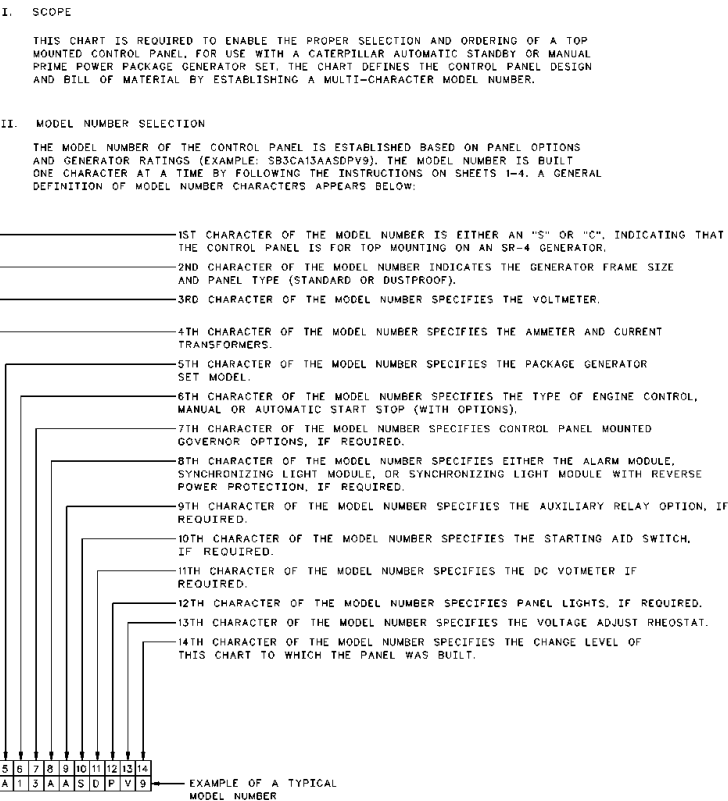
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4W-8000 CHART-CONTROL PANEL

4W8000 CHART-CONTROL PANEL-PART 1 OF 9

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Parts list rows are not synced on this VPS for SEBP1532/SEBP15320001 yet.					

4W-8000 CHART-CONTROL PANEL

4W8000 CHART-CONTROL PANEL-PART 2 OF 9

Drawing 1 of 1

III. DESCRIPTION OF EQUIPMENT SPECIFIED BY MODEL NUMBER

1—THE FIRST CHARACTER OF THE MODEL NUMBER INDICATES THAT THE CONTROL PANEL IS A STANDARD PANEL, OR A CANADIAN STANDARD ASSOC. APPROVED PANEL, FOR TOP MOUNTING ON A SR-4 GENERATOR.
S=STANDARD
C=CSA APPROVED PANEL (INCLUDES 9Y4335 FILM AND 3L0369 CSA DIELECTRIC TEST)

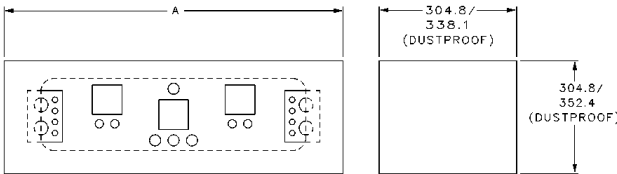
2—THE SECOND CHARACTER OF THE MODEL NUMBER INDICATES THE GENERATOR FRAME SIZE & PANEL TYPE. THE FRAME SIZE DETERMINES THE PHYSICAL DIMENSIONS OF THE CONTROL PANEL. SEE TABLE 1 AND FIGURE 1.

SB3CA13AASDPV9

TABLE 1

	PANEL TYPE	GENERATOR FRAME SIZE	PANEL WIDTH "A"	PANEL AS.			HARNESS AS.	
				DOOR	BOX	FACADE	AC	DC
A	STANDARD	360	608.2	—	4P3466	—	7E6486	7E6487
B	STANDARD	440/580 680/800	698.5	—	7E6485	4P5813	7E6488	7E6489
C	DUSTPROOF	360	619.1	4W9904	4P3465	—	7E6486	7E6487
D	DUSTPROOF	440/580 680/800	714.4	7W0202	7E6484	—	7E6488	7E6489

FIGURE 1



3 —THE THIRD CHARACTER OF THE MODEL NUMBER SPECIFIES THE VOLTMETER.

MODEL SB3CA13AASDPV9

	GENERATOR OPERATING VOLTAGE	AC VOLTMETER		FREQUENCY METER RESISTOR	
		SCALE	PART NO.	PART NO.	
2	0 -240 VAC	0-300 VAC	4W8644	NOT REQUIRED	
3	241-480 VAC	0-600 VAC	4W8645	7E6496	
4	481-600 VAC	0-750 VAC	7W6969	7C4561	

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4W-8000 CHART-CONTROL PANEL

4W8000 CHART-CONTROL PANEL-PART 3 OF 9

Drawing 1 of 1

4 — THE FOURTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE AMMETER AND CURRENT TRANSFORMERS, BASED ON GENERATOR OUTPUT VOLTAGE AND KW. RATING SHOWN IN TABLES BELOW.

MODEL SB3CA13AASDPV9

GENERATOR KW RATING AT — VOLTAGES:									
200VOLTS	208VOLTS	240VOLTS	300VOLTS	380VOLTS	400VOLTS	416VOLTS	480VOLTS	600VOLTS	
17-25 KW	18-24 KW	21-31 KW	26-35 KW	33-45 KW	35-47 KW	36-48 KW	43-55 KW	52-71 KW	
C 26-34	25-34	32-42	36-53	46-66	48-71	50-73	57-85	72-107	
E 35-47	35-48	43-56	54-70	67-89	72-94	74-97	86-113	108-141	
F 47-71	49-73	57-85	71-106	90-134	95-141	98-146	114-169	142-212	
G 72-94	74-98	86-113	107-141	135-179	142-188	147-195	170-226	213-282	
H 95-141	99-147	114-169	142-212	180-268	189-282	196-293	227-339	283-423	
J 142-188	148-196	170-226	213-282	269-358	283-376	294-391	340-452	424-565	
K 189-235	197-245	227-282	283-353	359-447	377-471	382-489	453-565	566-706	
L 236-282	246-294	283-339	354-424	448-537	472-565	490-588	566-678	707-848	
M 283-353	295-367	340-423	425-530	538-671	566-706	589-734	679-848	849-1060	
N 354-471	368-489	424-565	531-706	672-895	707-942	735-979	849-1131	1061-1414	
P 472-631	490-631	566-706	707-883	896-1119	943-1178	980-1225	1132-1413	1415-1766	
R 632-707	632-735	707-848	884-1060	1120-1343	1179-1414	1226-1470	1414-1696	1767-2120	
S 708-943	736-980	849-1131	1061-1414	1344-1791	1415-1885	1471-1960	1670-2262	2121-2827	

AMMETER (TRANSFORMER RATED)				CURRENT TRANSFORMERS			
QTY	SCALE	PART NO	QTY	ROUND		SQUARE	
				RATIO	PART NO	RATIO	PART NO
C 1	0- 100 AMPS	4W8632	3	100:5	5N5429	—	—
D 1	0- 150 AMPS	4W8633	3	150:5	4W8102	—	—
E 1	0- 200 AMPS	4W8634	3	200:5	5N5430	—	—
F 1	0- 300 AMPS	4W8635	3	300:5	5N5431	—	—
G 1	0- 400 AMPS	4W8636	3	400:5	5N5432	—	—
H 1	0- 600 AMPS	4W8637	3	600:5	5N5433	—	—
J 1	0- 800 AMPS	4W8638	3	800:5	5N5434	800:5	7E1112
K 1	0-1000 AMPS	4W8639	3	1000:5	7W8839	1000:5	7E1113
L 1	0-1200 AMPS	4W8640	3	1200:5	7W8838	1200:5	7E1114
M 1	0-1500 AMPS	4W8641	3	1500:5	7W8837	1500:5	7E1115
N 1	0-2000 AMPS	4W8642	3	2000:5	7W8836	2000:5	7E1116
P 1	0-2500 AMPS	4W8643	3	2500:5	7W8835	2500:5	7E1117
R 1	0-3000 AMPS	7W2218	3	3000:5	7W6598	3000:5	7E1118
S 1	0-4000 AMPS	7W5558	3	4000:5	7W7805	4000:5	7E1119

NOTE:SQUARE CURRENT TRANSFORMERS TO BE SUPPLIED IF 5TH CHARACTER OF CONTROL PANEL MODEL NUMBER IS F THROUGH L (3412 AND 3500 PACKAGE GENERATOR SETS). ROUND CURRENT TRANSFORMERS TO BE SUPPLIED WITH ALL OTHER ENGINE SALES MODELS.

Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP1532/SEBP15320003 yet.					

4W-8000 CHART-CONTROL PANEL

4W8000 CHART-CONTROL PANEL-PART 4 OF 9

Drawing 1 of 1

5 — THE FIFTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE PACKAGE GENERATOR SET ON WHICH THE PANEL WILL BE INSTALLED.

MODEL SB3CA13AASDPV9

PACKAGE GENERATOR SET	CHARACTER	PANEL FRONT SHOCK MOUNT	
3208	A	3N1968	2
3304	B		
3306	C		
3406	D		
3408	E		
3412	F		
3508	G	7E1235	2
3512	J		
3516	L		

6 — THE SIXTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE TYPE OF THE ENGINE CONTROL AND CYCLE CRANK AND COOLDOWN TIMER OPTIONS, IF REQUIRED.

MODEL SB3CA13AASDPV9

ENGINE CONTROL TYPE		ENGINE CONTROL GROUP	ENGINE CONTROL OPTIONS		HARNESS AS.
			CYCLE CRANK TIMER	COOLDOWN TIMER	
M	MANUAL	4W8004	NOT COMPATIBLE	NOT COMPATIBLE	7E6493
1	AUTOMATIC (SINGLE CRANK)	4W8005	NOT REQUIRED	NOT REQUIRED	7E6492
2	AUTOMATIC (W/CYCLE CRANK)	4W8005	4W8007	NOT REQUIRED	7E6492
3	AUTOMATIC (W/COOLDOWN)	4W8005	NOT REQUIRED	4W8008	7E6492
4	AUTOMATIC (W/CYCLE CRANK & COOLDOWN)	4W8005	4W8007	4W8008	7E6492

Ref.	Part number	Description	Qty	Code	Group
			.		page
Parts list rows are not synced on this VPS for SEBP1532/SEBP15320004 yet.					

4W-8000 CHART-CONTROL PANEL

4W8000 CHART-CONTROL PANEL-PART 5 OF 9

Drawing 1 of 1

7 —THE SEVENTH CHARACTER OF THE MODEL NUMBER SPECIFIES CONTROL PANEL MOUNTED GOVERNOR OPTIONS, IF REQUIRED.

MODEL SB3CA13AASDPV9

GOVERNOR OPTION	GOVERNOR TYPE	GOV SW	GOVERNOR GP-ELECTRONIC	GOVERNOR FUSE	FILM
X NONE, OR SHIPPED LOOSE CUSTOMER INSTALLED 2301A GOVERNOR	CAT HYDRA-MECH, 2301A LOAD SHARING	—	—	—	—
1 GOVERNOR SWITCH GP	CAT HYDRA-MECH PSG,3161	4W8181	—	—	—
2 2301 GOVERNOR (W/PRE-REGULATOR)	2301 SPEED SENSING	—	4W8185	7T0037	7E7845
3 2301 GOVERNOR	2301 SPEED SENSING	—	4W8180	7T0037	7E7845
4 1724/8290 GOVERNOR (F/U/W 3114 AND 3116 ENGINES)	ELECTRONIC SPEED SENSING	—	7E1233	3K8782	9Y9782
5 1724/8290 GOVERNOR	ELECTRONIC SPEED SENSING	—	7E1232	3K8782	9Y9782
6 2301A GOVERNOR	2301A SPEED SENSING	—	4P2788	7T0037	7E7845

NOTE : ABOVE CHARACTERS 2, 3, & 6 ARE NOT COMPATIBLE WITH THE CONTROL PANEL MODEL NUMBER 8TH CHARACTERS L OR R (SYNC LIGHT). ABOVE CHARACTERS 4 AND 5 ARE NOT COMPATIBLE WITH THE CONTROL PANEL MODEL NUMBER 8TH CHARACTERS L OR R UNLESS PROVIDED WITH OPTIONAL 7E2583 LOAD SHARE MODULE (NOT INSTALLED).

8 —THE EIGHTH CHARACTER OF THE MODEL NUMBER SPECIFIES EITHER THE ALARM MODULE, SYNCHRONIZING LIGHT MODULE, SYNCHRONIZING LIGHT MODULE WITH GENERATOR REVERSE POWER PROTECTION OPTION, IF REQUIRED.

MODEL SB3CA13AASDPV9

MODULE TYPE	MODULE PART NO.	CANADIAN STANDARD 600 VAC MODULE PART NO.	COVER PLATE	HARNESS AS.
X NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	4W8190	—
A ALARM (NFPA-99)	4W8006	4W8006	NOT REQUIRED	7E6494
B ALARM (NFPA-110)	7C3084	7C3084	NOT REQUIRED	7E6495
L SYNC. LIGHTS	4W8002	7C3262	NOT REQUIRED	—
R SYNC. LIGHTS W/REVERSE POWER	4W8003	7C3263	NOT REQUIRED	—

NOTE : ABOVE CHARACTERS L & R ARE NOT COMPATIBLE WITH THE CONTROL PANEL MODEL NUMBER 7TH CHARACTERS 2, 3, AND 6 (2301 GOVERNORS). REVERSE POWER RELAY SHALL BE SET AT APPROX. 15% OF GENERATOR RATING. IF THIRD CHARACTER OF MODEL NO. IS A "4", USE 600 VAC CANADIAN MODULE PART NUMBER. ABOVE CHARACTERS L AND R ARE NOT COMPATIBLE WITH THE CONTROL PANEL MODEL NUMBER 7TH CHARACTERS 4 AND 5 UNLESS PROVIDED WITH OPTIONAL 7E2583 LOAD SHARE MODULE (NOT INSTALLED).

Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP1532/SEBP15320005 yet.					

4W-8000 CHART-CONTROL PANEL

4W8000 CHART-CONTROL PANEL-PART 6 OF 9

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9 —THE NINTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE AUXILIARY RELAY OPTION, IF REQUIRED.

MODEL SB3CA13AASDPV9

MODULE GROUP - RELAY	
X	NOT REQUIRED
A	4W8009

NOTE :THE AUXILIARY RELAY IS NOT AVAILABLE WITH THE CONTROL PANEL MODEL NUMBER 6TH CHARACTER M (MANUAL START STOP CONTROL).

10 —THE TENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE STARTING AID SWITCH OPTION, IF REQUIRED.

MODEL SB3CA13AASDPV9

QTY	STARTING AID SWITCH GP	PLUG BUTTON	FILM
X 1	NOT REQUIRED	5P7509	NOT REQUIRED
S 1	4W8182 MANUAL	NOT REQUIRED	NOT REQUIRED
A 1	8C9812 AUTOMATIC	NOT REQUIRED	7E7851

NOTE :ABOVE CHARACTER A IS COMPATIBLE ONLY WITH CONTROL PANEL MODEL NUMBER 5TH CHARACTERS G, J, AND L (3500 SERIES ENGINES PROVIDED WITH AUTOMATIC ETHER INJECTION).

11 —THE ELEVENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE DC VOLTMETER OPTION, IF REQUIRED.

MODEL SB3CA13AASDPV9

QTY	DC VOLTMETER AS.	PLUG BUTTON
X 1	NOT REQUIRED	6V5183
D 1	4W8184	NOT REQUIRED

12 —THE TWELFTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE OPTIONAL PANEL ILLUMINATION LIGHT GROUP, IF REQUIRED.

MODEL SB3CA13AASDPV9

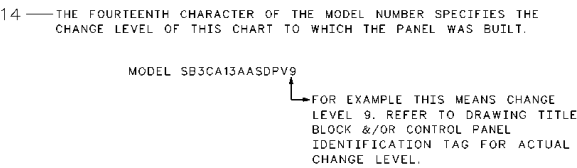
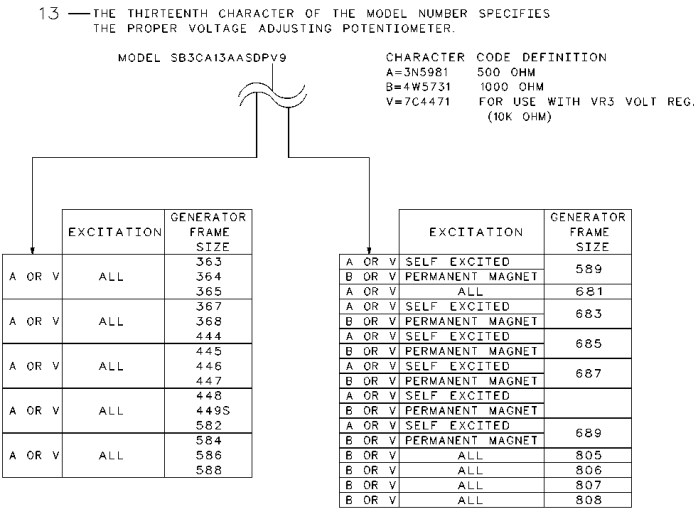
QTY	PANEL LIGHTS GROUP	PLUG BUTTON
X 1	NOT REQUIRED	5P7509
		5P4935
P 1	4W8183	NOT REQUIRED

Ref.	Part number	Description	Qty	Code	Group page
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4W-8000 CHART-CONTROL PANEL

4W8000 CHART-CONTROL PANEL-PART 7 OF 9

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Ref.	Part number	Description	Qty	Code	Group page
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4W-8000 CHART-CONTROL PANEL

4W8000 CHART-CONTROL PANEL-PART 8 OF 9

Drawing 1 of 1

IV. IN ADDITION TO THE COMPONENTS SPECIFIED BY THE MODEL NUMBER, THE FOLLOWING COMPONENTS ARE REQUIRED TO COMPLETE THE CONTROL PANEL.

	PART NO.		
3		TERMINALS FOR WIRE T1,T2,T3	ETC MOLEX INC, PART NO. B-201-38HDX
1	7C5695	FREQUENCY METER	45-65 HZ DIAL TYPE 240 VAC
1	3N5976	SWITCH (ROTARY)	PHASE SELECTOR SWITCH (AMMETER-VOLTMETER)
1	7C0974	FILM	WARNING ELECTRICAL SHOCK HAZARD
2	3N5611	SHOCK MOUNT AS.	REAR, MULTIPLANE MOUNTS
1 LOT		PANDUIT (PLASTIC WIREWAY)	USE AS REQUIRED
1	4L6470	TERMINAL STRIP 12 POINT	
2	4W8229	TERMINAL STRIP 20 POINT	
1	4W8226	STRIP - TERMINAL MARKER	TB A TERMINAL STRIP MARKER
1	4W8227	STRIP - TERMINAL MARKER	TB B TERMINAL STRIP MARKER
1	4W8228	STRIP - TERMINAL MARKER	TB C TERMINAL STRIP MARKER
1 LOT		LABELS - COMPONENT	APPROVED BY CAT
1 LOT		YELLOW BRAIDED HARNESS SLEEVE	USE AS REQUIRED
1	3N5977	FUSE BLOCK	3 POLE, 600 VOLT AC
3	7W0482	FUSE	2 AMP, 600 VOLT AC
1	4W2065	OIL PRESSURE GAGE	
1	4W0463	WATER TEMPERATURE GAGE	
1		BARRIER	BACK OF METER PANEL
2	7C1466	BUSHING	TO SEAL HARNESS BETWEEN GENERATOR AND CONTROL PANEL
1	9Y9771	FILM	PANEL IDENTIFICATION NAMEPLATE
1	9Y9783	FILM	FUSE LABEL, 2A AC
1	4W5972	KNOB	KNOB FOR VOLTAGE ADJUST RHEOSTATS
1	7E6490	HARNESS AS. - WIRING	DC INTERNAL WIRING HARNESS
1	7E6491	HARNESS AS. - WIRING	AC INTERNAL WIRING HARNESS
3	4P2160	WASHER	METER PANEL HARDWARE
3	4P2161	SCREW	
3	4P2162	CLIP	

Ref.	Part number	Description	Qty	Code	Group page
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4W-8000 CHART-CONTROL PANEL

4W8000 CHART-CONTROL PANEL PART 9 OF 9

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- V. GENERAL REQUIREMENTS
- 1. ALL CONTROL PANELS SHALL CONTAIN THE APPROPRIATE SPACE, WIRING, HOLES, ETC. TO SUPPORT THE FIELD INSTALLATION OF ANY OPTION LISTED ON THIS CHART.
 - 2. THE COMPLETED CONTROL PANEL SHALL BE FINISHED PAINTED CATERPILLAR HI-WAY YELLOW, 1E2139.
 - 3. A SUPPLIER NAMEPLATE WILL BE ATTACHED INSIDE THE PANEL ENCLOSURE. THE CONTROL PANEL MODEL NUMBER SHALL BE STAMPED ON THIS NAMEPLATE, ALONG WITH THE DATE CODE.
 - 4. A COMPLETE SET OF CAT DRAWINGS INCLUDING OUTLINE DRAWING, WIRING DIAGRAMS, SCHEMATIC DIAGRAMS, INTERCONNECT DIAGRAM SHALL BE PACKED WITH EACH CONTROL PANEL.
 - 5. STANDARD HARDWARE FASTENERS USED FOR SHEETMETAL TO SHEETMETAL SECUREMENT SHALL BE TORQUED TO THE VALUES GIVEN BELOW. IN ADDITION TYPE B LOCTITE SEALANT, AS SPECIFIED BY 1E2200, SHALL BE USED EXCEPT ON INSTRUMENT PANEL DOOR FASTENERS.

SCREW SIZE (INCH)	STANDARD HARDWARE			
	NEWTON-METERS		FOOT-LBS	
	MIN	MAX	MIN	MAX
4-40	0.37	0.53	0.3	0.4
6-32	0.69	0.96	0.5	0.7
8-32	1.41	2.01	1.0	1.5
10-32	2.35	3.36	1.7	2.5
1/4-20	5.70	8.14	4.2	6.0
5/16-18	10.44	14.91	7.7	11.0
3/8-16	18.03	25.76	13.3	19.0
7/16-14	28.48	40.68	21.3	30.0
1/2-13	42.71	61.02	31.5	45.0
9/16-12	62.65	89.50	46.2	66.0
5/8-11	88.28	126.11	65.1	93.0
3/4-10	142.38	203.40	105.0	150.0
7/8-9	191.74	273.91	141.4	202.0

6. METER PHASE SELECTOR SWITCH POSITION VS PHASE

POSITION	OFF	1	2	3
AMMETER READING	OFF	PHASE 1	PHASE 2	PHASE 3
VOLTMETER READING	OFF	PH 1 TO 2	PH 2 TO 3	PH 3 TO 1

- VI. CATERPILLAR REFERENCE DRAWINGS
4W8001 - CHANGE 09 INSTRUCTIONS

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