

CATERPILLAR SR4

2ED / SEBP1068

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3N-8900 CHART-CONTROL PANEL

3N8900 CONTROL PANEL IDENTIFICATION CHART--Part 1 of 4 Change Level 0-3 See Pages 16 thru 19 for location of parts

Drawing 1 of 1

I. SCOPE- THIS CHART IS APPLICABLE TO THE CONTROL PANEL MOUNTED ON A CATERPILLAR PACKAGED GENERATOR SET.

SR 4 GENERATOR MOUNTED CRANKING AND CONTROL PANEL FOR USE WITH PACKAGED GENERATOR SETS.

TABLE 1 - 60 HERTZ

MODEL	480 VOLT	MODEL	240 VOLT
SA3C	43 - 56 KW	SA2E	43 - 56 KW
SA3D	57 - 85 KW	SA2F	57 - 85 KW
SB3E	86 - 111 KW	SB2G	86 - 111 KW
SB3F	112 - 167 KW	SB2H	112 - 162 KW
SB3G	168 - 222 KW	SB2J	163 - 212 KW
SB3H	223 - 285 KW	SB2K	213 - 285 KW
SB3H	286 - 325 KW	SB2L	286 - 338 KW
SB3J	326 - 420 KW	SB2M	339 - 420 KW

MODEL	208 VOLT
SA2F	45 - 65 KW
SA2G	66 - 85 KW
SB2H	86 - 142 KW
SB2J	143 - 190 KW
SB2K	191 - 225 KW
SB2L	226 - 285 KW
SB2M	286 - 420 KW

II. CONTROL PANELS ARE DESIGNATED BY A 12 CHARACTER MODEL NUMBER ON THE NAMEPLATE. SEE PAGE 16 FOR LOCATION OF THE NAMEPLATE.

SELECT THE FIRST FOUR CHARACTERS OF THE MODEL NUMBER FROM TABLE 1 FOR 60 HERTZ AND FROM TABLE 2 FOR 50 HERTZ ACCORDING TO THE VOLTAGE AND KILOWATT RATING OF THE GENERATOR SET.

TABLE 2 - 50 HERTZ

MODEL	480 VOLT	MODEL	400 VOLT
SA3C	43 - 56 KW	SA3C	43 - 50 KW
SA3D	57 - 85 KW	SA3D	51 - 65 KW
SB3D	66 - 85 KW	SB3D	66 - 72 KW
SB3E	86 - 111 KW	SB3E	73 - 96 KW
SB3F	112 - 167 KW	SB3F	97 - 145 KW
SB3G	168 - 222 KW	SB3G	146 - 192 KW
SB3H	223 - 235 KW	SB3H	193 - 235 KW
SB3H	236 - 325 KW	SB3H	236 - 285 KW
SB3J	326 - 380 KW	SB3J	286 - 380 KW

MODEL	240 VOLT	MODEL	200 VOLT
SA2E	43 - 56 KW	SA2F	43 - 58 KW
SA2F	57 - 65 KW	SA2G	59 - 65 KW
SB2F	66 - 85 KW	SB2G	66 - 90 KW
SB2G	86 - 111 KW	SB2H	91 - 135 KW
SB2H	112 - 162 KW	SB2J	136 - 180 KW
SB2J	163 - 212 KW	SB2K	181 - 214 KW
SB2K	213 - 235 KW	SB2L	215 - 235 KW
SB2K	236 - 285 KW	SB2L	236 - 270 KW
SB2L	286 - 338 KW	SB2M	271 - 380 KW
SB2M	339 - 380 KW		

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Ref.	Part number	Description	Qty	Code	Group page
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Parts list rows are not synced on this VPS for SEBP1068/SEBP10680001 yet.

3N-8900 CHART-CONTROL PANEL

3N8900 CONTROL PANEL IDENTIFICATION CHART--Part 2 of 4 Change Level 0-3 See Pages 16 thru 19 for location of parts

Drawing 1 of 1

III. DESCRIPTION OF EQUIPMENT SPECIFIED BY MODEL NUMBER

1--AN "S" AS THE FIRST CHARACTER OF THE MODEL NUMBER INDICATES THAT THE CONTROL PANEL IS FOR TOP MOUNTING ON AN SR 4 GENERATOR.

2--THE SECOND CHARACTER OF THE MODEL NUMBER INDICATES THE GENERATOR FRAME SIZE. THE FRAME SIZE DETERMINES THE PHYSICAL DIMENSION OF THE CONTROL PANEL AND THE CATALOG NUMBER OF THE SHOCK MOUNTS. SEE TABLE 3 AND FIGURE 1.

4-- THE FOURTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE AMMETER AND CURRENT TRANSFORMERS.

SB3C82XXXPX0

AMMETER 5 AMP COIL				CURRENT TRANSFORMERS		
	QTY.	SCALE	PART NO.	QTY.	RATIO	PART NO.
C	1	0 - 100 AMPS	4L6837	3	100/5	3N5966
D	1	0 - 150 AMPS	4L6838	3	150/5	3N5967
E	1	0 - 200 AMPS	4L6839	3	200/5	3N5968
F	1	0 - 300 AMPS	4L6840	3	300/5	3N5969
G	1	0 - 400 AMPS	4L6841	3	400/5	3N5970
H	1	0 - 600 AMPS	4L6842	3	600/5	3N5971
J	1	0 - 800 AMPS	4L6843	3	800/5	3N5972
K	1	0 - 1000 AMPS	3N5576	3	1000/5	3N5973
L	1	0 - 1200 AMPS	3N8966	3	1200/5	3N5974

TABLE 3

	FRAME SIZE	60 HZ RATINGS	50 HZ RATINGS	A DIMEN.	SHOCK MOUNTS
A	360	45 - 85	45 - 65	23.75"	3N5611
B	440	90 - 285	75 - 230	27.50"	3N5611
	580	290 - 420	240 - 380	27.50"	3N5611

FIGURE 1

THE CATALOG NUMBER OF THE SHOCK MOUNTS ARE LORD MANUFACTURING CO. QUANTITY OF FOUR ARE REQUIRED. IN ADDITION, FOUR SNUBBING WASHERS, CATALOG J2049-3 ARE REQUIRED. IF CUSTOMER INSTALLS WATTMETER AND/OR POWER FACTOR METER, LORD 206 PD-40 SHOCK MOUNTS ARE RECOMMENDED.

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

SB3C82XXXPX0

AC VOLTMETER			
	QUANTITY	SCALE	PART NO.
2	1	0 - 300 VOLTS	4L6690
3	1	0 - 600 VOLTS	4L6691
4	1	0 - 1000 VOLTS	5N3380

5-- THE FIFTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE FREQUENCY METER.

SB3C82XXXPX0

FREQUENCY METER			
	QTY.	HERTZ	PART NO.
7	1	45 - 65	5N3047
8	1	45 - 65	5N3047

CHANGE 0-1 TO 3N8900
NO CHARACTER REFERENCE FOR FREQUENCY METER AS IT IS STANDARD WHERE CHARACTER 12 READS CHANGE LEVEL 2 OR ABOVE.

5-- THE FIFTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE COOL-DOWN TIMER.

SB3C82XXXPX2

COOL-DOWN TIMER	
X	NONE
T	5N3387 (INSTALLED)

CHANGE 2 TO 3N8900

219868

Ref.	Part number	Description	Qty	Code	Group	page
Parts list rows are not synced on this VPS for SEBP1068/SEBP10680002 yet.						

3N-8900 CHART-CONTROL PANEL

3N8900 CONTROL PANEL IDENTIFICATION CHART--Part 3 of 4 Change Level 0-3 3N5568 Module and 5N3666 Lamp parts are shown on Pages 20 and 21 See Pages 16 thru 19 for location of parts

Drawing 1 of 1

6 THE SIXTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE CRANKING VOLTAGE, CRANKING CYCLE AND TABLE 4 DETAILS THE COMPONENTS IN THE AUTOMATIC START STOP CIRCUITRY.

SB3C82XXXPX0

	CRANKING VOLTAGE	CRANKING CYCLE	CYCLE CRANKING MODULE
1	24 VOLT	SINGLE	NONE
2	24 VOLT	CYCLE	▲ 3N5568 (INSTALLED)

NOTE: THE SINGLE CRANKING CYCLE IS PRE-SET BY THE MANUFACTURER TO OPERATE 30 SECONDS AFTER WHICH TIME OVER CRANK SHUTDOWN OCCURS. THE CYCLE CRANKING MODULE (3N5568) IS PRE-SET BY THE MANUFACTURER TO CRANK THE ENGINE 10 SECONDS AND REST 10 SECONDS FOR A TOTAL OF 90 SECONDS (includes 5 cranks and 4 rests) AFTER WHICH TIME EVERCRANK SHUTDOWN OCCURS. THE CYCLE CRANKING MODULE (3N5568) IS OPTIONAL. HOWEVER, ALL PANELS INCLUDE MOUNTING AND WIRING PROVISIONS.

7 THE SEVENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE GLOW PLUG HEAT SWITCH, IF REQUIRED.

SB3C8200XPX0

	TOGGLE SWITCH- SINGLE POLE, MOMENTARY CONTACT	PLUG BUTTON
X	NONE	3L4566
H	3L6616	NONE

NOTE: THE HEAT SWITCH IS AN OPTIONAL ITEM. HOWEVER, ALL PANELS INCLUDE APPROPRIATE OPENING. WHEN HEAT SWITCH IS NOT INSTALLED, A PLUG BUTTON IS INSTALLED IN THE HOLE.

8 THE EIGHTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE DC AMMETER, IF REQUIRED.

SB3C82XXXPX0

	QTY.	SCALE	D C AMMETER PART NO.	TERMINAL STRIP PART NO.	PLUG BUTTON
X	-	-	NONE	NONE	1L6561
D	1	60-0-60	8M7892	3N1140	NONE

NOTE: THE DC AMMETER IS AN OPTIONAL ITEM. HOWEVER, ALL PANELS INCLUDE APPROPRIATE OPENING. WHEN DC AMMETER IS NOT INSTALLED, A PLUG BUTTON IS INSTALLED IN THE HOLE.

TABLE 4 3N8900 CHANGE 0-1 3N8900 CHANGE 2-3

COMPONENT FUNCTION	QTY.	24 VOLT PART NO.	QTY.	24 VOLT PART NO.
LOW OIL PRESS. IND.	1	3N5582	1	▲5N3666
HIGH WATER TEMP. IND.	1	3N5582	1	▲5N3666
OVERSPEED IND.	1	3N5582	1	▲5N3666
OVERCRANK IND.	1	3N5582	1	▲5N3666
ENG. FAULT LIGHT BULB	1	3N5718	1	3N5718
	1	3N5719	5	3N5719
RUN RELAY	1	3N5714	1	3N5714
ARMING RELAY	1	3N5714	1	3N5714
SHUTDOWN RELAY	1	3N5714	1	3N5714
RELAY SOCKET	3	3N5784	7	3N5784
OVERCRANK TIMER	1	3N5978	1	3N5978
CONTROL SWITCH	1	3N5979	1	3N5979
DIODE AS.	3	3N5980		
PANEL LAMP AS.	2	3N5583	2	3N5583
BULB	2	3N5588	2	3N5588
PANEL LAMP SWITCH	1	6L5079	1	6L5079
WATER TEMP. GAGE	1	5L7444	1	5L7444
OIL PRESS. GAGE	1	5L7456	1	5L7456

▲ SEPARATE ILLUSTRATION

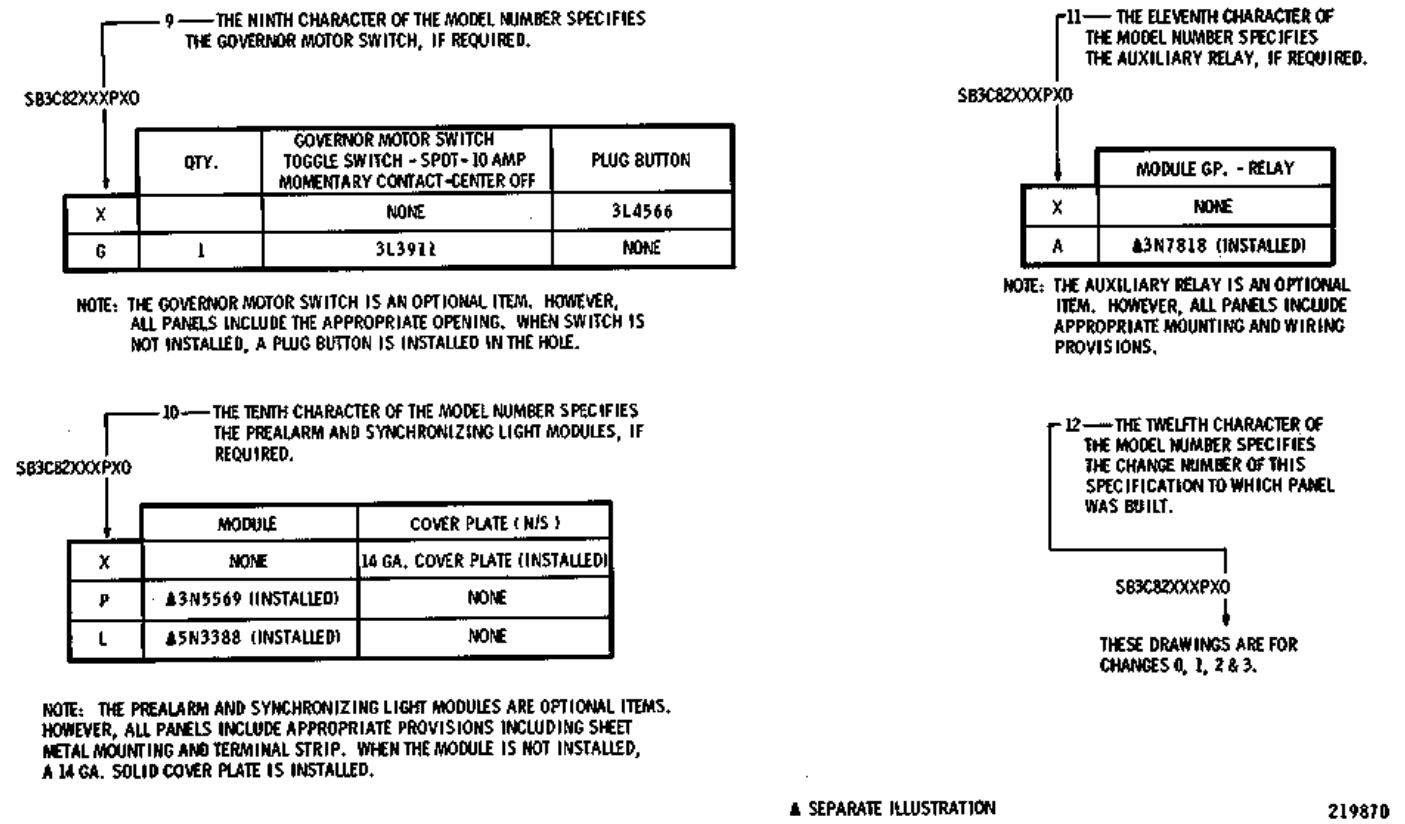
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Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP1068/SEBP10680003 yet.					

3N-8900 CHART-CONTROL PANEL

3N8900 CONTROL PANEL IDENTIFICATION CHART--Part 4 of 4 Change Level 0-3 5N3388 and 3N5569 Module and 3N7818 Relay parts are shown on Pages 21, 22 and 23 See Pages 16 thru 19 for location of parts

Drawing 1 of 1

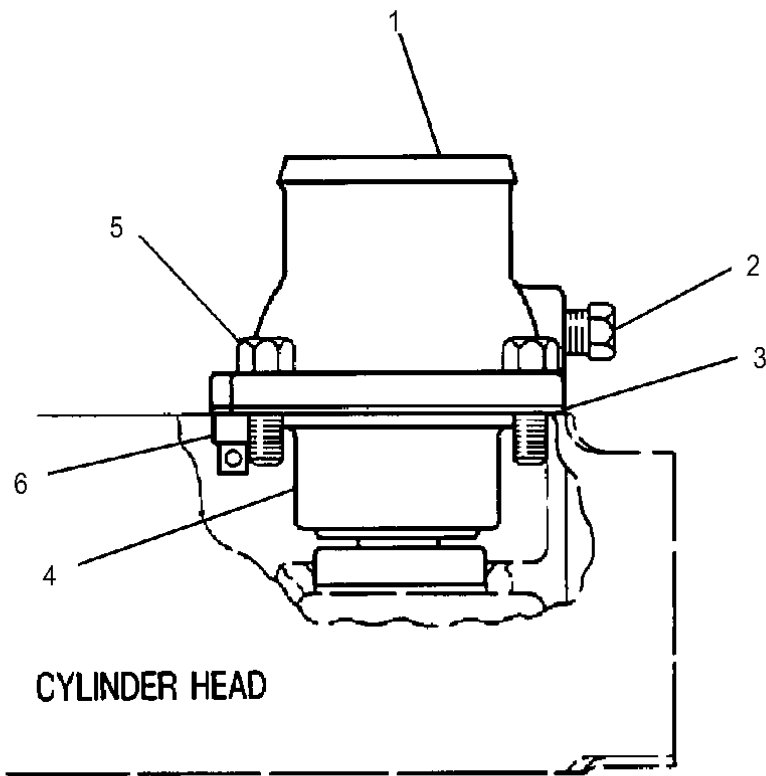


Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP1068/SEBP10680004 yet.					

3N-8900 CHART-CONTROL PANEL

3N8900 CONTROL PANEL IDENTIFICATION CHART--Part 1 of 4 Change Level 4-Up See Pages 18 and 19 for location of parts

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP1068/SEBP10680005 yet.					

3N-8900 CHART-CONTROL PANEL

3N8900 CONTROL PANEL IDENTIFICATION CHART--Part 2 of 4 Change Level 4-Up See Pages 18 and 19 for location of parts

Drawing 1 of 1

III. DESCRIPTION OF EQUIPMENT SPECIFIED BY MODEL NUMBER

1-AN "S" AS THE FIRST CHARACTER OF THE MODEL NUMBER INDICATES THAT THE CONTROL PANEL IS FOR TOP MOUNTING ON AN SR 4 GENERATOR.

2-THE SECOND CHARACTER OF THE MODEL NUMBER INDICATES THE GENERATOR FRAME SIZE. THE FRAME SIZE DETERMINES THE PHYSICAL DIMENSION OF THE CONTROL PANEL AND THE CATALOG NUMBER OF THE SHOCK MOUNTS. SEE TABLE 3 AND FIGURE 1.

SB3CX2XXXPX4

	FRAME SIZE	60 HZ RATINGS	50 HZ RATINGS	A. DIMEN.	SHOCK MOUNTS
A	360	45 - 85	45 - 65	23.75"	3N5611
B	440	90 - 310	75 - 255	27.50"	3N5611
	580	290 - 520	240 - 410	27.50"	3N5611

THE CATALOG NUMBER OF THE SHOCK MOUNTS ARE LORD MANUFACTURING CO., QUANTITY OF FOUR ARE REQUIRED. IN ADDITION, FOUR SNUBBING WASHERS, CATALOG J2049-3 ARE REQUIRED. IF CUSTOMER INSTALLS WATTMETER AND/OR POWER FACTOR METER, LORD 206 PD-40 SHOCK MOUNTS ARE RECOMMENDED.

4 — THE FOURTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE AMMETER AND CURRENT TRANSFORMERS.

SB3CX2XXXPX4

ANMETER-TRANSFORMER RATED GENERAL ELECTRIC CO. TYPE 250 OR CROMPTON TYPE 100				CURRENT TRANSFORMERS		
	QTY.	SCALE	PART NO.	QTY.	RATIO	PART NO.
C	1	0 - 100 AMPS	4L6837	3	100/5	3N5966
D	1	0 - 150 AMPS	4L6838	3	150/5	3N5967
E	1	0 - 200 AMPS	4L6839	3	200/5	3N5968
F	1	0 - 300 AMPS	4L6840	3	300/5	3N5969
G	1	0 - 400 AMPS	4L6841	3	400/5	3N5970
H	1	0 - 600 AMPS	4L6842	3	600/5	3N5971
J	1	0 - 800 AMPS	4L6843	3	800/5	3N5972
K	1	0 - 1000 AMPS	3R5576	3	1000/5	3N5973
L	1	0 - 1200 AMPS	3N8966	3	1200/5	3N5974
M	1	0 - 1500 AMPS	5N4561	3	1500/5	5N4559
N	1	0 - 2000 AMPS	5N2058	3	2000/5	5N2059

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

SB3CX2XXXPX4

AC VOLTMETER			
	QUANTITY	SCALE	PART NO.
2	1	0 - 300 VOLTS	4L6690
3	1	0 - 600 VOLTS	4L6691
4	1	0 - 1000 VOLTS	5N3380

5 — THE FIFTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE COOL - DOWN TIMER.

SB3CX2XXXPX4

COOL - DOWN TIMER	
X	NONE
T	5N3387 (INSTALLED)

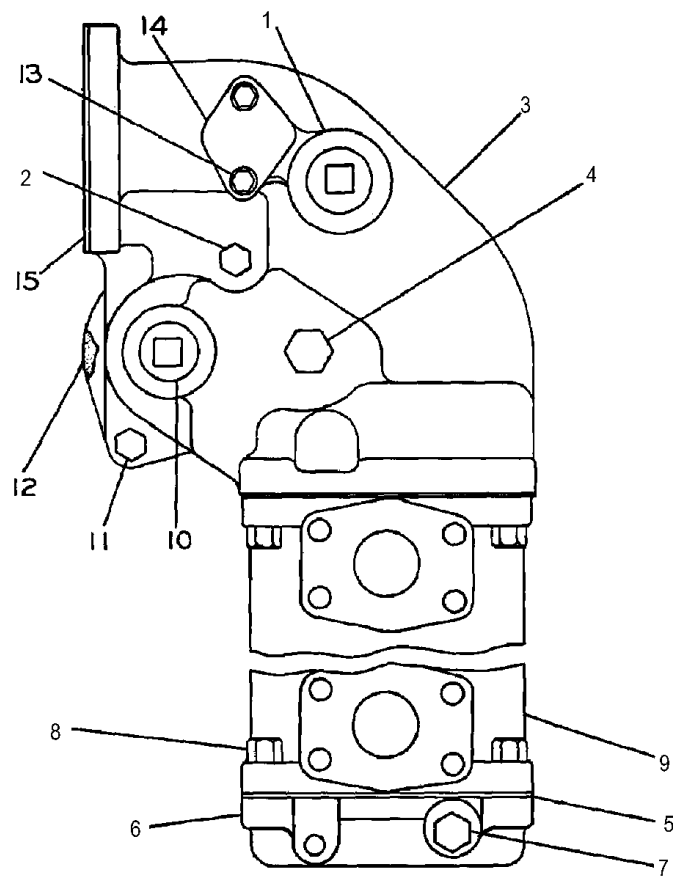
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Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP1068/SEBP10680006 yet.					

3N-8900 CHART-CONTROL PANEL

3N8900 CONTROL PANEL IDENTIFICATION CHART--Part 3 of 4 Change Level 4-Up 3N5568 Module and 5N3666 Lamp parts are shown on Pages 20 and 21 See Pages 18 and 19 for location of parts

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP1068/SEBP10680007 yet.					

3N-8900 CHART-CONTROL PANEL

3N8900 CONTROL PANEL IDENTIFICATION CHART--Part 4 of 4 Change Level 4-Up 5N3388 and 3N5569 Module and 3N7818 Relay parts are shown on Pages 21, 22 and 23 See Pages 18 and 19 for location of parts

Drawing 1 of 1

9 THE NINTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE GOVERNOR MOTOR SWITCH, IF REQUIRED.

SB3CX2XXXPX4

	QTY.	GOVERNOR MOTOR SWITCH TOGGLE SWITCH-SPDT-10AMP MOMENTARY CONTACT-CENTER OFF	PLUG BUTTON
X		NONE	3L4566
G	1	3L3911	NONE

NOTE: THE GOVERNOR MOTOR SWITCH IS AN OPTIONAL ITEM. HOWEVER, ALL PANELS INCLUDE THE APPROPRIATE OPENING. WHEN SWITCH IS NOT INSTALLED, A PLUG BUTTON IS INSTALLED IN THE HOLE

11 THE ELEVENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE AUXILIARY RELAY, IF REQUIRED

SB3CX2XXXPX4

	MODULE GP.-RELAY
X	NONE
A	▲ 3N7818 (INSTALLED)

NOTE: THE AUXILIARY RELAY IS AN OPTIONAL ITEM. HOWEVER, ALL PANELS INCLUDE APPROPRIATE MOUNTING AND WIRING PROVISIONS.

10 THE TENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE PREALARM AND SYNCHRONIZING LIGHT MODULES, IF REQUIRED.

SB3CX2XXXPX4

	MODULE	COVER PLATE (N/S)
X	NONE	14 GA. COVER PLATE (INSTALLED)
P	▲ 3N5569 (INSTALLED)	NONE
L	▲ 5N3388 (INSTALLED)	NONE

NOTE: THE PREALARM AND SYNCHRONIZING LIGHT MODULES ARE OPTIONAL ITEMS. HOWEVER, ALL PANELS INCLUDE APPROPRIATE PROVISIONS INCLUDING SHEET METAL MOUNTING AND TERMINAL STRIP. WHEN THE MODULE IS NOT INSTALLED, A 14 GA. SOLID COVER PLATE IS INSTALLED.

12 THE TWELFTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE CHANGE NUMBER OF THIS SPECIFICATION TO WHICH PANEL WAS BUILT.

SB3CX2XXXPX4

THESE DRAWINGS ARE FOR CHANGES 4-UP

▲ SEPARATE ILLUSTRATION

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Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP1068/SEBP10680008 yet.					

3N-8900 CHART-CONTROL PANEL

3N8900 CONTROL PANEL IDENTIFICATION CHART--Part 1 of 4 Change Level 4-Up FOR CANADIAN STANDARD ASSOCIATION See Pages 18 and 19 for location of parts

Drawing 1 of 1

- I. SCOPE- THIS CHART IS APPLICABLE TO
THE CONTROL PANEL MOUNTED ON A CSA
APPROVED CATERPILLAR PACKAGED
GENERATOR SET.

II. CONTROL PANELS ARE DESIGNATED BY A
J2 CHARACTER MODEL NUMBER ON THE NAMEPLATE.
SEE PAGE 18 FOR LOCATION OF THE NAMEPLATE.
- SR 4 GENERATOR MOUNTED CRANKING AND CONTROL PANEL FOR USE WITH CSA APPROVED PACKAGED GENERATOR SETS.

TABLE 1 60 HERTZ			
600 VOLT		208 VOLT	
MODEL		MODEL	
AA4C	53 - 70 KW	AA2F	45 - 65 KW
AA4D	71 - 85 KW	AA2G	66 - 85 KW
AB4D	86 - 120 KW	AB2H	86 - 142 KW
AB4E	121 - 140 KW	AB2J	143 - 190 KW
AB4F	141 - 217 KW	AB2K	191 - 225 KW
AB4G	218 - 288 KW	AB2L	226 - 285 KW
AB4H	289 - 325 KW	AB2M	286 - 325 KW
AC4H	326 - 420 KW	AC2M	326 - 400 KW
AC4J	421 - 530 KW	AC2N	401 - 530 KW

480 VOLT		300 VOLT		240 VOLT	
MODEL		MODEL		MODEL	
AA3C	43 - 56 KW	AA3D	43 - 56 KW	AA2E	43 - 56 KW
AA3D	57 - 85 KW	AA3E	57 - 75 KW	AA2F	57 - 85 KW
AA3E	86 - 111 KW	AA3F	76 - 85 KW	AB2H	86 - 111 KW
AB3F	112 - 167 KW	AB3G	86 - 140 KW	AB2H	112 - 162 KW
AB3G	168 - 222 KW	AB3H	141 - 200 KW	AB2J	163 - 212 KW
AB3H	223 - 285 KW	AB3J	201 - 325 KW	AB2K	213 - 285 KW
AB3H	286 - 325 KW	AC3K	326 - 350 KW	AB2L	286 - 325 KW
AC3J	326 - 420 KW	AC3L	351 - 450 KW	AC2L	326 - 350 KW
AC3K	421 - 530 KW	AC3M	451 - 530 KW	AC2M	351 - 450 KW
				AC2N	451 - 530 KW

219875

Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP1068/SEBP10680009 yet.					

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