

CATERPILLAR SR4

5RA / SEBP2265

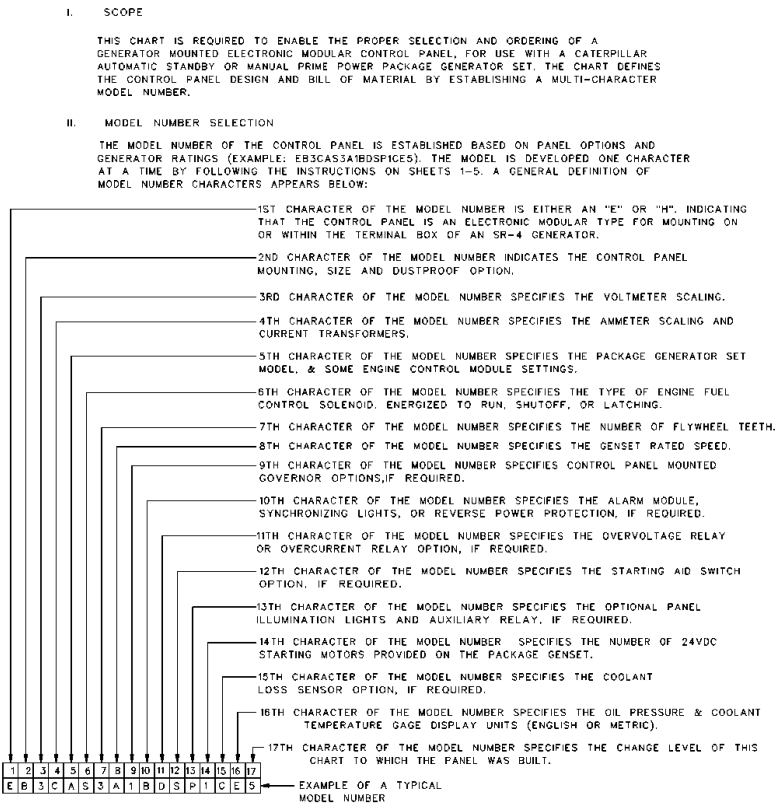
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103-1582 CHART-CONTROL PANEL

1031582 CHART-CONTROL PANEL-PART 1 OF 9

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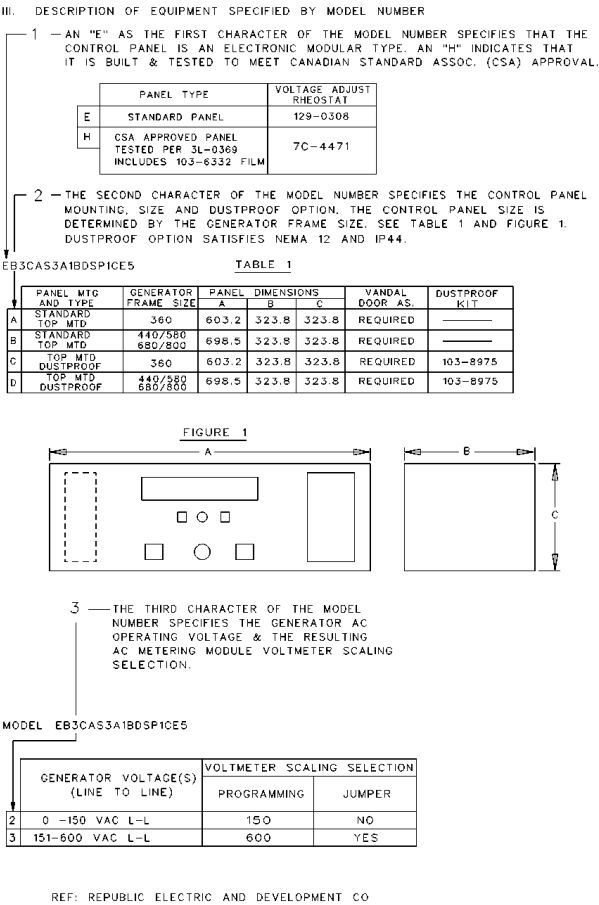


Ref.	Part number	Description	Qty	Code	Group page
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103-1582 CHART-CONTROL PANEL

1031582 CHART-CONTROL PANEL-PART 2 OF 9

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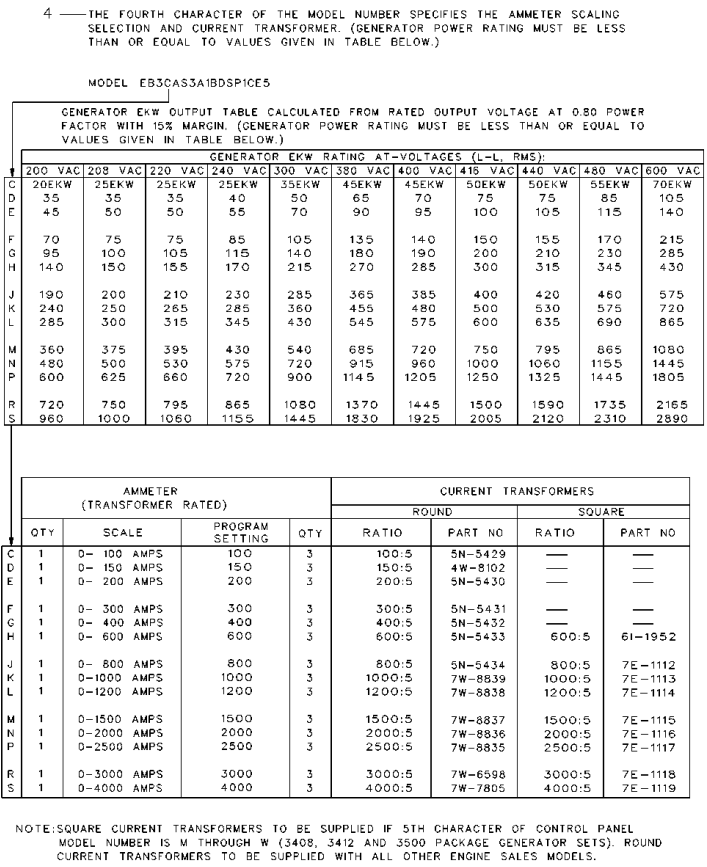


Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP2265/SEBP22650002 yet.					

103-1582 CHART-CONTROL PANEL

1031582 CHART-CONTROL PANEL-PART 3 OF 9

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Parts list rows are not synced on this VPS for SEBP2265/SEBP22650003 yet.					

103-1582 CHART-CONTROL PANEL

1031582 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 & SOME ENGINE CONTROL MODULE SETTINGS.

MODEL EB3CA53A1BDSPICE5

PACKAGE GENERATOR SET	CHARACTER	ENGINE CONTROL MODULE SETTINGS						CRANK TERMINATION SPEED
		FAULT SHUTDOWN SETTINGS		OIL STEP SPEED	OIL STEP SPEED			
		OIL PRESSURE	COOLANT TEMP			OVER- SPEED		
		HI RPM KPA(PSI)	LOW RPM KPA(PSI)	°C(°F)				
3114 PRIME	A							
3116 PRIME	B	206(30)	68(10)	107(225)	SAME AS 3208	SAME AS 3208		
3208 STANDBY	C	206(30)	68(10)	113(235)				
3208 PRIME	D			107(225)				
3304 STANDBY	E			113(235)				
3304 PRIME	F	82(12)	68(10)	107(225)				
3306 STANDBY	G			113(235)				
3306 PRIME	H			107(225)				
3406 STANDBY	J							
3406 PRIME	K							
3408 STANDBY	M							
3408 PRIME	N	206(30)	68(10)	107(225)	REF 3L-0332	REF 3L-0332	400 RPM	
3412 STANDBY	O							
3412 PRIME	P							
3508 STANDBY	R							
3508 PRIME	S							
3512 STANDBY	T	206(30)	68(10)	107(225)				
3512 PRIME	U							
3516 STANDBY	V							
3516 PRIME	W							

6 — THE SIXTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE TYPE OF THE ENGINE FUEL CONTROL SOLENOID.

MODEL EB3CA53A1BDSPICE5

	FUEL CONTROL SOLENOID TYPE	PROGRAM ENGINE CONTROL MODULE FOR:	SHUT-OFF GP
R	ENERGIZED TO RUN	ENERGIZED TO RUN	111-7760
S	ENERGIZED TO SHUTOFF	ENERGIZED TO SHUTOFF	111-7761

NOTE: IF CONTROL PANEL MODEL NUMBER 5TH CHARACTER IS "M" THROUGH "P", 7E-8396 AUXILIARY FUEL CONTROL RELAY GROUP IS INCLUDED.

Ref.	Part number	Description	Qty	Code	Group page
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103-1582 CHART-CONTROL PANEL

1031582 CHART-CONTROL PANEL-PART 5 OF 9

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7 — THE SEVENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE NUMBER OF TEETH ON THE FLYWHEEL OF THE GENSET THAT THE CONTROL PANEL WILL BE INSTALLED ON. IT IS IMPORTANT THAT THE CORRECT NUMBER OF TEETH BE PROGRAMED INTO THE ENGINE CONTROL MODULE TO ASSURE PROPER OPERATION.

MODEL EB3C**AS**3A1BDS**P**ICE5

	NUMBER OF FLYWHEEL TEETH	PACKAGE GANERATOR SET	GENERATOR FRAME SIZE
1	183	3516,3512,3508	ALL
2	136	3412,3408	ALL
3	136	3406(# 0 FLYWHEEL HOUSING)	582
4	113	3406(# 1 FLYWHEEL HOUSING)	ALL
5	156	3306,3304	ALL
6	134	3208 ,3114,3116	ALL

REFER TO CHART 3L-0332 TO ASSIST IN DETERMINING NUMBER OF FLYWHEEL TEETH.

8 — THE EIGHTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE RATED SPEED AT WHICH THE GENERATOR SET WILL OPERATE.

MODEL EB3C**AS**3A1BDS**P**ICE5

	RATED SPEED (RPM)
A	1000
B	1200
C	1500
D	1800

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

MODEL EB3C**AS**3A1BDS**P**ICE5

	GOVERNOR OPTION	GOVERNOR TYPE	GOV SW	GOVERNOR GP- ELECTRONIC	GOVERNOR FUSE PART #	QTY
X	NONE, OR SHIPPED LOOSE CUSTOMER INSTALLED 2301A GOVERNOR	CAT HYDRA-MECH, 2301A LOAD SHARING	—	—	NOT REQUIRED	—
1	GOVERNOR SWITCH GP	CAT HYDRA-MECH PSG,3161	7N-8008	—	NOT REQUIRED	—
4	1724/8290 GOVERNOR (F/U/W 3114 AND 3116 ENGINES)	ELECTRONIC SPEED SENSING	—	7E-1233	3K-8782	1
5	1724/8290 GOVERNOR	ELECTRONIC SPEED SENSING	—	7E-1232	3K-8782	1
6	2301A GOVERNOR	2301A SPEED SENSING	—	4P-2788	7T-0037	1

NOTE : ABOVE CHARACTERS 2, 3, & 6 ARE NOT COMPATIBLE WITH THE CONTROL PANEL MODEL NUMBER 10TH CHARACTER D, E, F OR G (SYNC. LIGHT). ABOVE CHARACTERS 4 AND 5 ARE NOT COMPATIBLE WITH THE CONTROL PANEL MODEL NUMBER 10TH CHARACTER D, E, F, OR G (SYNC. LIGHT) UNLESS PROVIDED WITH OPTIONAL 7E-2583 LOAD SHARE MODULE (NOT INSTALLED).

Ref.	Part number	Description	Qty	Code	Group page
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103-1582 CHART-CONTROL PANEL

1031582 CHART-CONTROL PANE-PART 6 OF 9

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

MODEL EB3CASA1BDSPICES

MODULE TYPE	PART NO.			
	MODULE OR CONTROL GP	REVERSE POWER RELAY	FILMS	COVER PLATE
X NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NOT REQ'D	7C-1008
A ALARM (NFPA99)	9Y-2907	NOT REQUIRED	NOT REQ'D	NOT REQUIRED
B ALARM (NFPA 110)	9Y-2906	NOT REQUIRED	NOT REQ'D	NOT REQUIRED
C ALARM (SINGLE UNIT PRIME POWER)	7E-1234	NOT REQUIRED	NOT REQ'D	NOT REQUIRED
D SYNC. LIGHTS (0-480V L-L)	106-5171	NOT REQUIRED	NOT REQ'D	NOT REQUIRED
E SYNC. LIGHTS (600V L-L)	106-5169	NOT REQUIRED	NOT REQ'D	NOT REQUIRED
F SYNC. LIGHTS (0-480V L-L) WITH REVERSE POWER	106-5171	5N-5510	7C-4062	NOT REQUIRED
G SYNC. LIGHTS (600V L-L) WITH REVERSE POWER	106-5169	7C-4378	7C-4062	NOT REQUIRED

NOTE :ABOVE CHARACTERS D, E, F, & G ARE INCOMPATIBLE WITH THE CONTROL PANEL MODEL NUMBER 9TH CHARACTERS 2, 3, AND 8 (2301 GOVERNORS). REVERSE POWER RELAY SHALL BE SET AT APPROX. 15% OF GENERATOR RATING.
ABOVE CHARACTERS D, E, F, AND G ARE INCOMPATIBLE WITH THE CONTROL PANEL MODEL NUMBER 9TH CHARACTERS 4 AND 5 UNLESS PROVIDED WITH OPTIONAL 7E-2583 LOAD SHARE MODULE (NOT INSTALLED).

11—THE ELEVENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE PANEL MOUNTED GENERATOR OVERVOLTAGE OR OVERCURRENT RELAY, IF REQUIRED.

MODEL EB3CASA1BXSPICES

RELAY TYPE	RELAY P/N
X NOT REQUIRED	—
1 208 V OVERVOLTAGE THREE PHASE	123-4944
2 240 V OVERVOLTAGE THREE PHASE	123-4945
3 416 V OVERVOLTAGE THREE PHASE	123-4946
4 480 V OVERVOLTAGE THREE PHASE	123-4947
5 600 V OVERVOLTAGE THREE PHASE	126-0558
6 3 PHASE OVERCURRENT RELAY	112-7959

NOTE: ABOVE CHARACTERS #1, #2, #3, #4, #5 AND #6 ARE NOT COMPATIBLE WITH F AND G OF THE TENTH CHARACTER. OVERVOLTAGE AND OVERCURRENT RELAY PICK-UP SETTINGS SHALL BE SET AT ITS MAXIMUM VALUE.

Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP2265/SEBP22650006 yet.					

103-1582 CHART-CONTROL PANEL

1031582 CHART-CONTROL PANEL-PART 7 OF 9

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12—THE TWELFTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE STARTING AID SWITCH OPTION, IF REQUIRED.

MODEL EB3CAs3A1BDSPICE5

	QTY	STARTING AID SWITCH	METER PANEL FILM
X	0	NOT REQUIRED	103-1837
S	1	9D-3721 MANUAL	103-1837
A	1	8C-9812 AUTOMATIC	103-1838

NOTE: ABOVE CHARACTER "A" PERMITS INJECTION OF ETHER INTO ENGINE AFTER CRANK TERMINATION IF JACKET WATER TEMPERATURE IS LESS THAN 70°F (52°C)

13—THE THIRTEENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE PANEL ILLUMINATION LIGHT GROUP AND AUXILIARY RELAY OPTIONS, IF REQUIRED.

MODEL EB3CAs3A1BDSPICE5

	QTY	LAMP HOUSING AS	LAMP	SWITCH	PLUG BUTTON	RELAY	SOCKET
X	0	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	—	—
	2	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	5P-4835	—	—
P	2	7G-9730	7N-5876	—	NOT REQUIRED	—	—
	1	—	—	8D-2676	NOT REQUIRED	3N-5714	4W-8787

14—THE FOURTEENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE NUMBER OF 24VDC STARTING MOTORS PROVIDED ON THE PACKAGE GENERATOR SET, TO BE CONTROLLED BY THE PANEL.

MODEL EB3CAs3A1BDSPICE5

		QTY	STARTER MOTOR MAGNETIC SWITCH(S)	CIRCUIT BREAKER PART #	
				3114 & 3116 PRIME GENSETS (REF.MODEL # CHARACTER 5)	ALL OTHER GENSETS
1	SINGLE STARTING MOTOR	1	9X-8124	9H-1958	1N-9770
2	DUAL STARTING MOTORS	2	9X-8124	—	—
		1	—	—	9H-1958

15—THE FIFTEENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE COOLANT LOSS SENSOR OPTION, IF REQUIRED.

MODEL EB3CAs3A1BDSPICE5

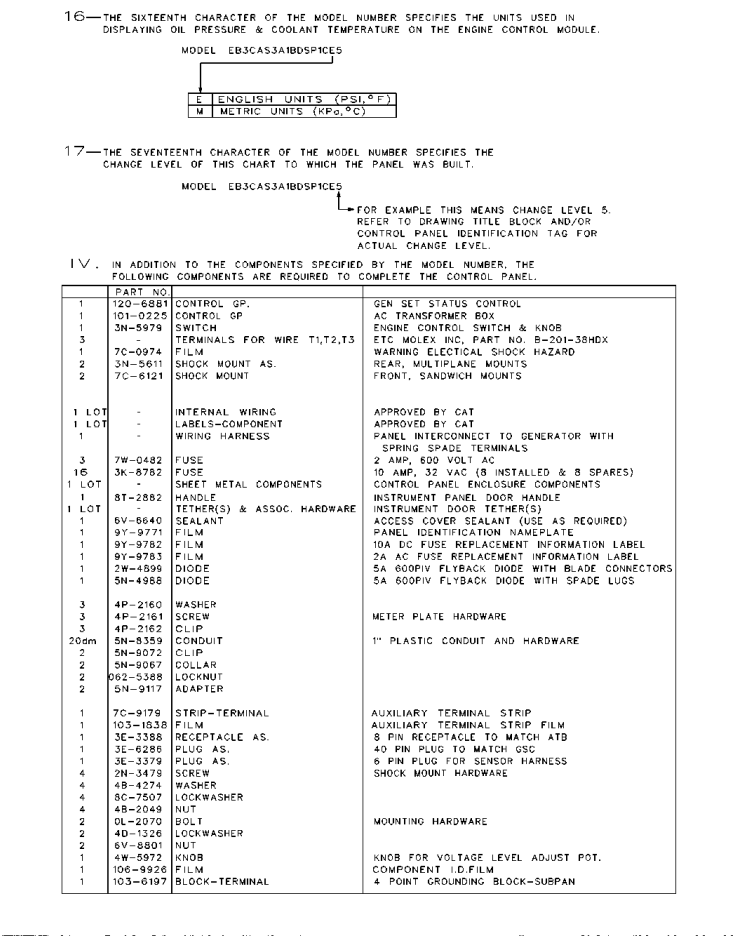
	HARNESS CONNECTOR
X	NOT REQUIRED
C	3E-3367

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1031582 CHART-CONTROL PANEL-PART 8 OF 9

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103-1582 CHART-CONTROL PANEL

1031582 CHART-CONTROL PANEL-PART 9 OF 9

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- 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. REFER TO DIMENSIONAL DRAWINGS 102-8774 OR 102-6300 FOR GENERAL ENCLOSURE DIMENSIONS.
2.

THE COMPLETED CONTROL PANEL SHALL BE FINISHED PAINTED CATERPILLAR YELLOW,IE2139,WITH THE INSTRUMENT DOOR PAINTED FLAT BLACK.
3.

A SUPPLIER NAMEPLATE WILL BE ATTACHED INSIDE THE PANEL. 103-1582 AND 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 IE2200, 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	0.98	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	85.28	126.11	66.1	93.0
3/4-10	142.38	203.40	105.0	150.0
7/8-9	191.74	273.91	141.4	202.0

- CATERPILLAR REFERENCE DRAWINGS
- 103-1584 CHANGE 05 INSTRUCTIONS

Ref.	Part number	Description	Qty	Code	Group page
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