

CATERPILLAR 3412

2WJ / SEBP2293

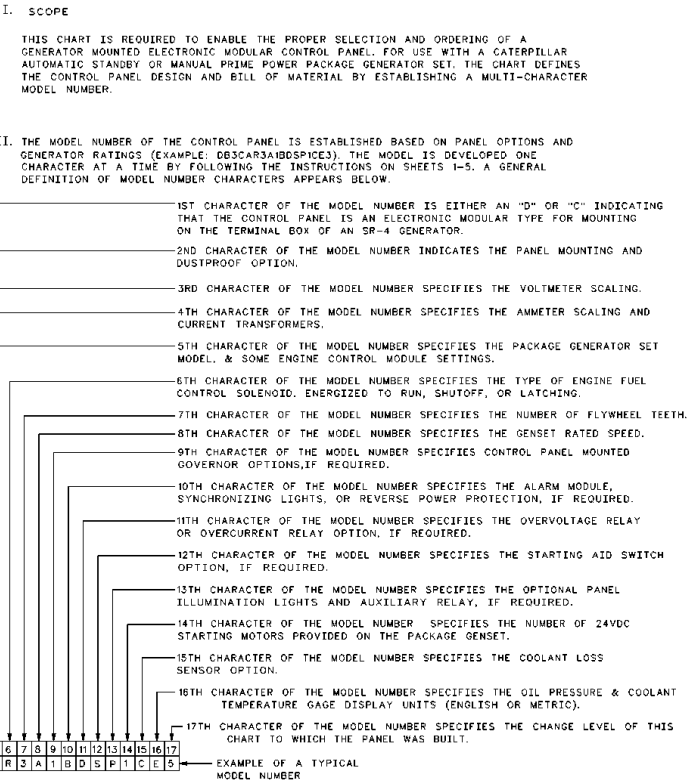
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107-6285 PANEL AR-CONTROL

1076285 PANEL AR-CONTROL-PART 1 OF 10

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Parts list rows are not synced on this VPS for SEBP2293/SEBP22930001 yet.					

107-6285 PANEL AR-CONTROL

1076285 PANEL AR-CONTROL-PART 2 OF 10

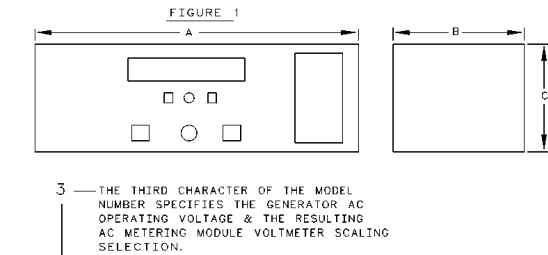
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- III. DESCRIPTION OF EQUIPMENT SPECIFIED BY MODEL NUMBER
- 1 — A "D" AS THE FIRST CHARACTER OF THE MODEL NUMBER SPECIFIES THAT THE CONTROL PANEL IS AN ELECTRONIC MODULAR TYPE FOR USE WITH CATERPILLAR DIGITAL ELECTRONIC FUEL SYSTEMS. A "C" AS THE FIRST CHARACTER OF THE MODEL NUMBER SPECIFIES THAT THE CONTROL PANEL IS BUILT AND TESTED TO MEET CANADIAN STANDARD ASSOC. (CSA) APPROVAL.
- D=STANDARD PANEL
C=CSA APPROVED PANEL. INCLUDES 123-6017 FILM & 3L-0369 CSA DIELECTRIC TEST.
- 2 — THE SECOND CHARACTER OF THE MODEL NUMBER SPECIFIES THE CONTROL PANEL MOUNTING AND DUSTPROOF OPTION. DUSTPROOF OPTION SATISFIES NEMA 12 AND IP44.

DB3CAR3A1BDSPICES

TABLE 1

	PANEL MTG AND TYPE	GENERATOR FRAME SIZE	PANEL DIMENSIONS			VANDAL DOOR AS.	DUSTPROOF KIT
			A	B	C		
B	REAR MTD	440/580 680/800	698.5	323.8	323.8	REQUIRED	_____
C	REAR MTD DUSTPROOF	440/580 680/800	698.5	323.8	323.8	REQUIRED	103-8975
D	RH MTD	440/580 680/800	698.5	323.8	323.8	REQUIRED	_____
E	RH MTD DUSTPROOF	440/580 680/800	698.5	323.8	323.8	REQUIRED	103-8975



MODEL DB3CAR3A1BDSPICES

	GENERATOR VOLTAGE(S) (LINE TO LINE)	VOLTMETER SCALING SELECTION	
		PROGRAMMING	JUMPER
2	0 TO 150 VAC L-L	150	NO
3	151 TO 600 VAC L-L	600	YES

REF: REPUBLIC ELECTRIC AND DEVELOPMENT CO

Ref.	Part number	Description	Qty	Code	Group page
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1076285 PANEL AR-CONTROL-PART 3 OF 10

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

MODEL DB3CAR3A1BDSPICE5

GENERATOR EKW OUTPUT TABLE CALCULATED FROM RATED OUTPUT VOLTAGE AT 0.80 POWER FACTOR WITH 15% MARGIN.

GENERATOR EKW RATING AT-VOLTAGES (L-L, RMS):									
200 VAC	208 VAC	240 VAC	300 VAC	380 VAC	400 VAC	416 VAC	480 VAC	600 VAC	
C 0-25EKW	0-24EKW	0-31EKW	0-35EKW	0-45EKW	0-47EKW	0-49EKW	0-56EKW	0-71EKW	
D 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	392-489	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	1414-1669	1767-2120	
S 708-943	736-980	849-1131	1061-1414	1344-1791	1415-1885	1471-1960	1670-2262	2121-2827	

AMMETER SCALING		CURRENT TRANSFORMERS		
SCALE	MODULE SWITCH SI SETTING	QTY	RATIO	PART NO
C 0- 100 AMPS	1	3	100:5	5N-5429
D 0- 150 AMPS	2	3	150:5	4W-8102
E 0- 200 AMPS	3	3	200:5	5N-5430
F 0- 300 AMPS	4	3	300:5	5N-5431
G 0- 400 AMPS	5	3	400:5	5N-5432
H 0- 600 AMPS	6	3	600:5	6I-1952
J 0- 800 AMPS	7	3	800:5	7E-1112
K 0-1000 AMPS	8	3	1000:5	7E-1113
L 0-1200 AMPS	9	3	1200:5	7E-1114
M 0-1500 AMPS	10	3	1500:5	7E-1115
N 0-2000 AMPS	11	3	2000:5	7E-1116
P 0-2500 AMPS	12	3	2500:5	7E-1117
R 0-3000 AMPS	13	3	3000:5	7E-1118
S 0-4000 AMPS	14	3	4000:5	7E-1119

Ref.	Part number	Description	Qty	Code	Group page
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MODEL DB3CAR3A1BDSP1CE5

[illegible]

MODEL DB3CAR3A1BDSP1CE5

	FUEL CONTROL SOLENOID TYPE	PROGRAM ENGINE CONTROL MODULE FOR:
R	ENERGIZED TO RUN	ENERGIZED TO RUN

NOTE: PEEC IS AVAILABLE WITH AN ENERGIZED TO RUN FUEL SOLENOID ONLY AT THIS TIME.

5

107-6285 PANEL AR-CONTROL

1076285 PANEL AR-CONTROL-PART 5 OF 10

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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 DB3CAR3A1BDSPICE5

	NUMBER OF FLYWHEEL TEETH	PACKAGE GENERATOR SET	GENERATOR FRAME SIZE
1			
2	136	3412	ALL
3			
4			
5			
6			

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 DB3CAR3A1BDSPICE5

	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 DB3CAR3A1BDSPICE5

	GOVERNOR OPTION	GOVERNOR TYPE	GOV SW/POT	SUPP. DIODE	GOVERNOR GP- ELECTRONIC
X	SHIPPED LOOSE CUSTOMER INSTALLED LOADSHARE	CAT PEEC/LOADSHARE	—	—	—
1	CAT PEEC	DIGITAL ELECTRONIC	—	—	100-2842
2	CAT EUI	DIGITAL ELECTRONIC	—	—	100-2842

NOTE: LOADSHARING APPLICATIONS REQUIRE OPTIONAL 4P-0319 LOAD SHARE MODULE AND 7E-1246 SPEED POTENTIOMETER.

Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP2293/SEBP22930005 yet.					

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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 DB3CAR3A1B0SP1CE5

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-1009
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 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 NOT COMPATIBLE WITH THE CONTROL PANEL MODEL NUMBER 9TH CHARACTERS 1 & 2 (CATERPILLAR DIGITAL ELECTRONIC GOVERNOR CONTROL) UNLESS PROVIDED WITH OPTIONAL 4P-0319 LOAD SHARE MODULE AND 7E-1246 SPEED POTENTIOMETER (NOT INSTALLED). REVERSE POWER RELAY SHALL BE SET AT APPROX. 15% OF GENERATOR RATING.

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

MODEL DB3CAR3A1B3SP1CE5

	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
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12 —THE TWELFTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE STARTING AID SWITCH OPTION, IF REQUIRED.
MODEL DB3CAR3A1BDSPICE5

	QTY	STARTING AID SWITCH	METER PANEL FILM
X	0	NOT REQUIRED	103-1837
S	1	8C-9812	103-1838

13 —THE THIRTEENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE PANEL ILLUMINATION LIGHT GROUP AND AUXILIARY RELAY OPTIONS, IF REQUIRED.
MODEL DB3CAR3A1BDSPICE5

	QTY	LAMP HOUSING AS	LAMP	SWITCH	PLUG BUTTON	RELAY	SOCKET
X	0	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	—	—
P	2	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	5P-4935	—	—
	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 DB3CAR3A1BDSPICE5

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

15 —THE FIFTEENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE COOLANT LOSS SENSOR OPTION, IF REQUIRED.
MODEL DB3CAR3A1BDSPICE5

	HARNES CONNECTOR
X	NOT REQUIRED
C	3E-3367

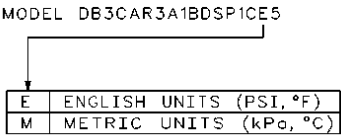
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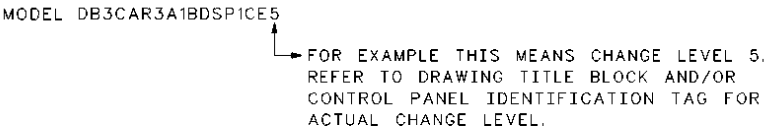
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16 —THE SIXTEENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE UNITS USED IN
DISPLAYING OIL PRESSURE & COOLANT TEMPERATURE ON THE ENGINE CONTROL MODULE.



17 —THE SEVENTEENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE
CHANGE LEVEL OF THIS CHART TO WHICH THE PANEL WAS BUILT.



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1076285 PANEL AR-CONTROL-PART 9 OF 10

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

	PART NO.		
1	3N-5979	SWITCH	ENGINE CONTROL SWITCH & KNOB
3	-	TERMINALS FOR WIRE T1,T2,T3	ETC MOLEX INC. PART NO. 6-201-38MDX
1	7C-0974	FILM	WARNING ELECTRICAL SHOCK HAZARD
2	3N-5611	SHOCK MOUNT AS.	REAR,MULTIPLANE MOUNTS
2	7C-6121	SHOCK MOUNT	FRONT,SANDWICH MOUNTS
1 LOT	-	PANDUIT(PLACTIC WIREWAY)	USE AS REQUIRED
2	4L-6470	TERMINAL STRIP 12 POINT	TERMINAL STRIP
1 LOT	-	INTERNAL WIRING	APPROVED BY CAT
1 LOT	-	LABELS-COMPONENT	APPROVED BY CAT
1	-	WIRING HARNESS	PANEL INTERCONNECT TO GENERATOR WITH
			SPRING SPADE TERMINALS
3	7W-0482	FUSE	2 AMP, 600 VOLT AC
16	3K-8782	FUSE	10 AMP, 32 VAC (8 INSTALLED & 8 SPARES)
1 LOT	-	SHEET METAL COMPONENTS	CONTROL PANEL ENCLOSURE COMPONENTS
1	8T-2882	HANDLE	INSTRUMENT PANEL DOOR HANDLE
1 LOT	-	TETHER(S) & ASSOC. HARDWARE	INSTRUMENT DOOR TETHER(S)
1	6V-6640	SEALANT	ACCESS COVER SEALANT (USE AS REQUIRED)
1	9Y-9771	FILM	PANEL IDENTIFICATION NAMEPLATE
1	9Y-9782	FILM	10A DC FUSE REPLACEMENT INFORMATION LABEL
1	9Y-9783	FILM	2A AC FUSE REPLACEMENT INFORMATION LABEL
1	2W-4899	DIODE	5A 600PIV FLYBACK DIODE WITH TERMINALS
1	5N-4988	DIODE	5A 600PIV FLYBACK DIODE WITH SPADE LUGS
3	4P-2160	WASHER	METER PLATE HARDWARE
3	4P-2161	SCREW	
3	4P-2162	CLIP	
12dm	5N-8359	CONDUIT	1" PLASTIC CONDUIT AND HARDWARE
2	5N-9072	CLIP	FOR DC WIRING HARNESS
2	5N-9067	COLLAR	
2	062-5388	LOCKNUT	
2	5N-9117	ADAPTER	
4	2N-3479	SCREW	SHOCK MOUNT HARDWARE
4	4B-2049	NUT	
4	4B-4274	WASHER	
4	8C-7507	LOCKWASHER	
1	120-6881	CONTROL GP	GEN. SET STATUS CONTROL
1	101-9798	DIM.-PANEL AS.	SUB PANEL ASSEMBLY
1	7C-4471	POTENTIOMETER	VOLTAGE LEVEL ADJUST POT.
1	7C-9179	STRIP TERMINAL	AUXILIARY TERMINAL STRIP
1	103-1836	FILM	AUXILIARY TERMINAL STRIP FILM
1	3E-3388	RECEPTACLE	8 PIN RECEPTACLE TO MATCH ATB
1	3E-6286	PLUG AS.	40 PIN PLUG FOR GSC HARNESS
1	3E-3379	PLUG AS.	6 PIN PLUG FOR SENSOR HARNESS
1	109-6507	SWITCH	EMERGENCY STOP SWITCH OPERATOR
2	111-1325	BLOCK	EMERGENCY STOP N.O./N.C. CONTACT BLOCK
1	4W-5972	KNOB	VOLTAGE LEVEL ADJUST POT KNOB
1	101-0225	CONTROL GP	ATB MODULE
2	6V-8801	NUT	
1	106-8848	DIODE AS.	
1	103-6197	BLOCK-TERM	GPH1 TERMINAL

Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP2293/SEBP22930009 yet.					

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