

CATERPILLAR SR4

1MS / SEBP2678

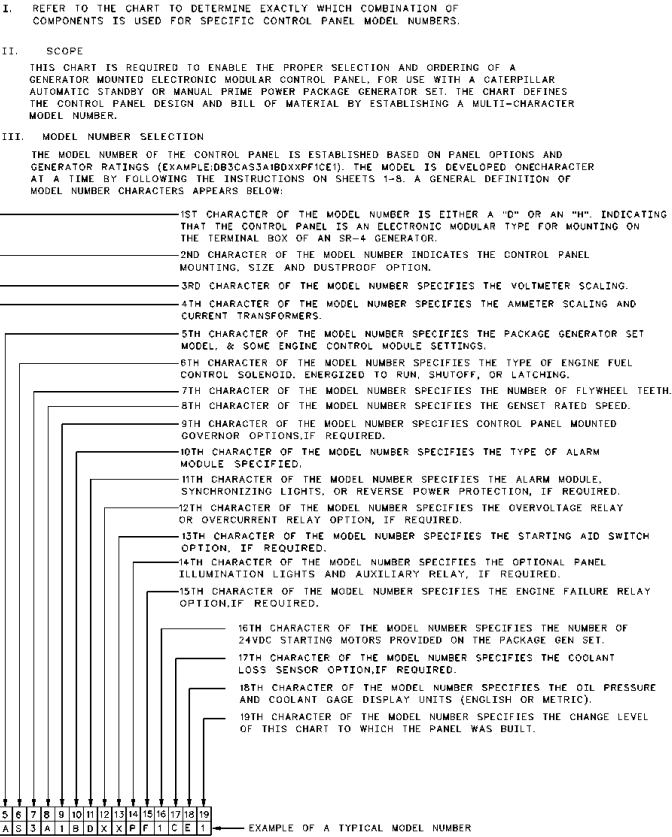
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136-9048 CHART-CONTROL PANEL

1369048 CHART-CONTROL PANEL-PART 1 OF 10

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Parts list rows are not synced on this VPS for SEBP2678/SEBP26780001 yet.					

136-9048 CHART-CONTROL PANEL

1369048 CHART-CONTROL PANEL-PART 2 OF 10

Drawing 1 of 1

IV. DESCRIPTION OF EQUIPMENT SPECIFIED BY MODEL NUMBER

1 — AN "E" AS THE FIRST CHARACTER OF THE MODEL NUMBER SPECIFIES THAT THE CONTROL PANEL IS AN ELECTRONIC MODULAR TYPE WITHOUT POWER METERING. AN "H" INDICATES THAT THE PANEL IS WITHOUT POWER METERING AND IS BUILT AND TESTED TO MEET CANADIAN STANDARDS ASSOC (CSA APPROVAL). A "P" INDICATES THE PANEL CONTAINS POWER METERING. A "T" INDICATES THAT THE PANEL CONTAINS POWER METERING AND IS BUILT AND TESTED TO MEET CANADIAN STANDARDS ASSOC (CSA APPROVAL).

PANEL TYPE	VOLTAGE ADJ. RHEOSTAT	GSC TYPE	ATB TYPE	KW RELAY	INSTRUCTION SET
D STANDARD PANEL (NO POWER METERING)	129-0308				
H CSA APPROVED STD PANEL TESTED PER 3L-0369 INCLUDES 142-0868 FILM	7C-4471	120-6881	101-0225	—	136-9049
P STANDARD PANEL WITH POWER METERING	129-0308				
T CSA APPROVED PANEL WITH POWER METERING TESTED PER 3L-0369 INCLUDES 142-0868 FILM	7C-4471	118-2071	118-0175	128-3326	138-9422

2 — THE SECOND CHARACTER OF THE MODEL NUMBER SPECIFIES THE CONTROL PANEL MOUNTING, SIZE AND DUSTPROOF OPTION. THE CONTROL PANEL SIZE IS DETERMINED BY THE GENERATOR FRAME SIZE. SEE TABLE 1 AND FIGURE 1. DUSTPROOF OPTION SATISFIES NEMA 12 AND IP44.

DB3CAS3A1BDXXPFICE1

TABLE 1

PANEL MTC AND TYPE	GENERATOR FRAME SIZE	PANEL DIMENSIONS			VANDAL DOOR AS.	DUSTPROOF KIT
		A	B	C		
A REAR MTD	440/590	698.5	323.8	323.8	REQUIRED	—
B REAR MTD DUSTPROOF	440/590	698.5	323.8	323.8	REQUIRED	103-8975
C RH MTD	440/590	—	—	—	—	—
D RH MTD DUSTPROOF	440/590	—	—	—	—	103-8975

FIGURE 1

3 — THE THIRD CHARACTER OF THE MODEL NUMBER SPECIFIES THE GENERATOR AC OPERATING VOLTAGE & THE RESULTING AC METERING MODULE VOLTMETER SCALING SELECTION.

MODEL DB3CAS3A1BDXXPFICE1

	GENERATOR VOLTAGE(S) (LINE TO LINE)	VOLTMETER SCALING SELECTION	
		PROGRAMMING	JUMPER
2	0-150 VAC L-L	150	NO
3	151-600 VAC L-L	600	YES
4	2400 VAC L-L	3.00 KV	NO
5	3300 VAC L-L	4.50 KV	NO
6	4160 VAC L-L	5.25 KV	NO

REF: REPUBLIC ELECTRIC AND DEVELOPMENT CO

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136-9048 CHART-CONTROL PANEL

1369048 CHART-CONTROL PANEL-PART 3 OF 10

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4 — THE FOURTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE AMMETER SCALING SELECTION AND CURRENT TRANSFORMER. (GENERATOR POWER RATING MUST BE LESS THAN OR EQUAL TO VALUES GIVEN IN TABLE BELOW.)

MODEL DB3CAS3A1BDXXPF1CE1											
GENERATOR EKW OUTPUT TABLE CALCULATED FROM RATED OUTPUT VOLTAGE AT 0.80 POWER FACTOR WITH 15% MARGIN. (GENERATOR POWER RATING MUST BE LESS THAN OR EQUAL TO VALUES GIVEN IN TABLE BELOW.)											
GENERATOR EKW RATING AT-VOLTAGES (L-L, RMS):											
	200 VAC	208 VAC	220 VAC	240 VAC	300 VAC	380 VAC	400 VAC	416 VAC	440 VAC	480 VAC	600 VAC
C	20EKW	25EKW	25EKW	25EKW	35EKW	45EKW	45EKW	50EKW	50EKW	55EKW	70EKW
D	35	35	35	40	50	65	70	75	75	85	105
E	45	50	50	55	70	90	95	100	105	115	140
F	70	75	75	85	105	135	140	150	155	170	215
G	95	100	105	115	140	180	190	200	210	230	285
H	140	150	155	170	215	270	285	300	315	345	430
J	190	200	210	230	285	365	385	400	420	460	575
K	240	250	265	285	360	455	480	500	530	575	720
L	285	300	315	345	430	545	575	600	635	690	865
M	360	375	395	430	540	685	720	750	795	865	1080
N	480	500	530	575	720	915	960	1000	1060	1155	1445
P	600	625	660	720	900	1145	1205	1250	1325	1445	1805
R	720	750	795	865	1080	1370	1445	1500	1590	1735	2165
S	960	1000	1060	1155	1445	1830	1925	2005	2120	2310	2890

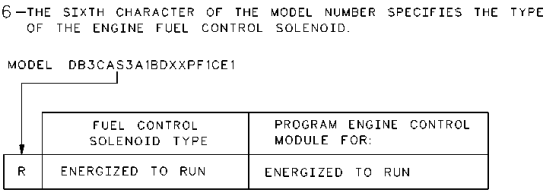
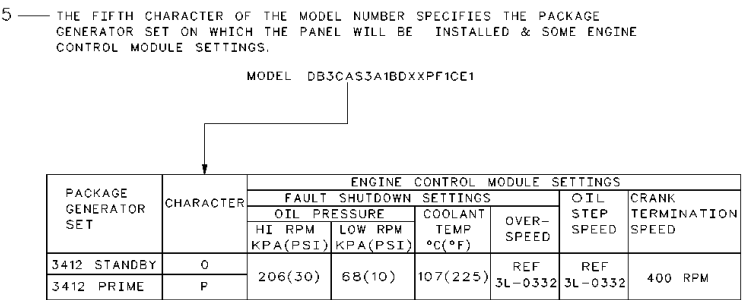
AMMETER SCALING			CURRENT TRANSFORMERS		
	SCALE	MODULE SWITCH S1 SETTING	QTY	RATIO	PART NO
C	0- 100 AMPS	1	3	100:5	5N-5429
D	0- 150 AMPS	2	3	150:5	4W-8102
E	0- 200 AMPS	3	3	200:5	5N-5430
F	0- 300 AMPS	4	3	300:5	5N-5431
G	0- 400 AMPS	5	3	400:5	5N-5432
H	0- 600 AMPS	6	3	600:5	6I-1952
J	0- 800 AMPS	7	3	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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136-9048 CHART-CONTROL PANEL

1369048 CHART-CONTROL PANEL-PART 4 OF 10

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Ref.	Part number	Description	Qty	Code	Group page
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136-9048 CHART-CONTROL PANEL

1369048 CHART-CONTROL PANEL-PART 5 OF 10

Drawing 1 of 1

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 DB3CAS3A1BDXXPF1CE1

	NUMBER OF FLYWHEEL TEETH	PACKAGE GANERATOR SET	GENERATOR FRAME SIZE
2	136	3412	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 DB3CAS3A1BDXXPF1CE1

	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 DB3CAS3A1BDXXPF1CE1

	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 131-5459 LOAD SHARE MODULE AND 129-0308 SPEED POTENTIOMETER.

Ref.	Part number	Description	Qty	Code	Group page
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136-9048 CHART-CONTROL PANEL

1369048 CHART-CONTROL PANEL-PART 6 OF 10

Drawing 1 of 1

10—THE TENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE TYPR OF ALARM MODULE REQUIRED.
MODEL DB3CAs3A1B0XXPF1CE1

	MODULE TYPE	CONTROL GP	COVER PLATE
X	NOT REQUIRED	—	7C-1009
A	ALARM (NFPA99)	9Y-2907	—
B	ALARM (NFPA110)	9Y-2906	—
C	ALARM (PRIME POWER)	7E-1234	—
D	ALARM (CUSTOM)	130-3325	—

11—THE ELEVENTH CHARACTER OF THE MODEL NUMBER SPECIFIES EITHER THE CUSTOM ALARM MODULE,OR SYNCHRONIZING LIGHT MODULE,OR THE SYNCHRONIZING LIGHT MODULE WITH GENERATOR REVERSE POWER PROTECTION IF REQUIRED.
MODEL DB3CAs3A1B0XXPF1CE1

	MODULE TYPE	MODULE OR CONTROL GP	REVERSE POWER RELAY	FILMS	COVER PLATE
X	NOT REQUIRED	NOT REQUIRED	—	—	7C-1009
A	ALARM (CUSTOM)	130-3333	—	—	—
B	SYNC LIGHTS (0-480V L-L)	106-5171	—	—	—
C	SYNC LIGHTS (600V L-L)	106-5169	—	—	—
D	SYNC LIGHTS (0-480V L-L) WITH REVERSE POWER	106-5171	5N-5510	7C-4082	—
E	SYNC LIGHTS (600V L-L) WITH REVERSE POWER	106-5169	7C-4378	7C-4082	—

NOTE: ABOVE OPTIONS D AND E ARE NOT COMPATIBLE WITH OPTIONS P AND T OF THE FIRST CHARACTER.
REVERSE POWER RELAY SHALL BE SET AT APPROX 15% OF GENERATOR RATING.

12—THE TWELFTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE PANEL MOUNTED GENERATOR OVERVOLTAGE OR OVERCURRENT RELAY,IF REQUIRED.
MODEL DB3CAs3A1B0XXPF1CE1

	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	129-0858
6	3 PHASE OVERCURRENT RELAY	112-7959

NOTE: ABOVE OPTIONS #1,#2,#3,#4,#5 AND #6 ARE NOT COMPATIBLE WITH P AND T OF THE FIRST CHARACTER OR D AND E OF THE ELEVENTH 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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1369048 CHART-CONTROL PANEL-PART 7 OF 10

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13—THE THIRTEENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE STARTING AID SWITCH OPTION, IF REQUIRED.

MODEL DB3CAS3A1BDXXPF1CE1

	QTY	STARTING AID SWITCH	METER PANEL FILM
X	0	NOT REQUIRED	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)

14—THE FOURTEENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE PANEL ILLUMINATION LIGHT GROUP AND AUXILIARY RELAY OPTION,IF REQUIRED.

MODEL DB3CAS3A1BDXXPF1CE1

	QTY	LAMP HOUSING AS.	LAMP	SWITCH	PLUG BUTTON	RELAY GP
X	0	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	—
	2	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	5P-4935	—
P	2	7G-9730	7N-5876	—	NOT REQUIRED	—
	1	—	—	8D-2676	NOT REQUIRED	128-3326

15—THE FIFTEENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE ENGINE FAILURE RELAY. THIS PROVIDES A SET OF "DRY" CONTACTS FOR ANY ENGINE FAILURE.

MODEL DB3CAS3A1BDXXPF1CE1

	RELAY GP
X	—
F	128-3326

Ref.	Part number	Description	Qty	Code	Group page
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136-9048 CHART-CONTROL PANEL

1369048 CHART-CONTROL PANEL-PART 8 OF 10

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

	PART NO.		
2	5N-5159	JUMPER	JUMPERS FOR AUXILIARY TERMINAL STRIP
1	3N-5979	SWITCH	ENGINE CONTROL SWITCH & KNOB
3	-	TERMINALS FOR WIRE T1,T2,T3	ETC MOLEX INC. PART NO. B-201-38HDX
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
2	12S-9969	RAIL	
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-4699	DIODE	5A 600PIV FLYBACK DIODE WITH BLADE CONNECTORS
1	5N-4988	DIODE	5A 600PIV FLYBACK DIODE WITH SPADE LUGS
1	101-9798	PANEL AS.	SUB PANEL ASSEMBLY
3	4P-2160	WASHER	
3	4P-2161	SCREW	METER PLATE HARDWARE
3	4P-2162	CLIP	
20dm	5N-8359	CONDUIT	1" PLASTIC CONDUIT AND HARDWARE
2	5N-9072	CLIP	
2	5N-9067	COLLAR	
2	062-5388	LOCKNUT	
2	5N-9117	ADAPTER	
2	7C-4550	SEAL	POTENTIOMETER SHAFT SEAL
1	4D-1260	STRIP-TERMINAL	AUXILIARY TERMINAL STRIP
1	141-2064	FILM	AUXILIARY TERMINAL STRIP FILM
1	3E-3388	RECEPTACLE AS.	8 PIN RECEPTACLE TO MATCH ATB
1	3E-6286	PLUG AS.	40 PIN PLUG TO MATCH GSC
1	3E-3379	PLUG AS.	6 PIN PLUG FOR SENSOR HARNESS
4	2N-3479	SCREW	SHOCK MOUNT HARDWARE
4	4B-4274	WASHER	
4	BC-7507	LOCKWASHER	
4	4B-2049	NUT	
2	0L-2070	BOLT	MOUNTING HARDWARE
2	4D-1326	LOCKWASHER	
2	6V-8801	NUT	
1	4W-5972	KNOB	KNOB FOR VOLTAGE LEVEL ADJUST POT.
1	106-9926	FILM	COMPONENT I.D.FILM
1	103-6197	BLOCK-TERMINAL	4 POINT GROUNDING BLOCK-SUBPAN

Ref.	Part number	Description	Qty	Code	Group page
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136-9048 CHART-CONTROL PANEL

1369048 CHART-CONTROL PANEL-PART 9 OF 10

Drawing 1 of 1

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

	PART NO.		
2	5N-5159	JUMPER	JUMPERS FOR AUXILIARY TERMINAL STRIP
1	3N-5979	SWITCH	ENGINE CONTROL SWITCH & KNOB
3	-	TERMINALS FOR WIRE T1,T2,T3	ETC MOLEX INC, PART NO. B-201-38HDX
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	12S-9969	RAIL	
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-4699	DIODE	5A 600PIV FLYBACK DIODE WITH BLADE CONNECTORS
1	5N-4988	DIODE	5A 600PIV FLYBACK DIODE WITH SPADE LUGS
1	101-9796	PANEL AS.	SUB PANEL ASSEMBLY
3	4P-2160	WASHER	
3	4P-2161	SCREW	METER PLATE HARDWARE
3	4P-2162	CLIP	
20dm	5N-8359	CONDUIT	1" PLASTIC CONDUIT AND HARDWARE
2	5N-9072	CLIP	
2	5N-9067	COLLAR	
2	062-5388	LOCKNUT	
2	5N-9117	ADAPTER	
2	7C-4550	SEAL	POTENTIOMETER SHAFT SEAL
1	4D-1260	STRIP-TERMINAL	AUXILIARY TERMINAL STRIP
1	141-2064	FILM	AUXILIARY TERMINAL STRIP FILM
1	3E-3388	RECEPTACLE AS.	8 PIN RECEPTACLE TO MATCH ATB
1	3E-6286	PLUG AS.	40 PIN PLUG TO MATCH GSC
1	3E-3379	PLUG AS.	6 PIN PLUG FOR SENSOR HARNESS
4	2N-3479	SCREW	SHOCK MOUNT HARDWARE
4	4B-4274	WASHER	
4	BC-7507	LOCKWASHER	
4	4B-2049	NUT	
2	0L-2070	BOLT	MOUNTING HARDWARE
2	4D-1326	LOCKWASHER	
2	6V-8801	NUT	
1	4W-5972	KNOB	KNOB FOR VOLTAGE LEVEL ADJUST POT.
1	106-9926	FILM	COMPONENT I.D.FILM
1	103-6197	BLOCK-TERMINAL	4 POINT GROUNDING BLOCK-SUBPAN

Ref.	Part number	Description	Qty	Code	Group page
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1MS-SEBP2678

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