

CATERPILLAR 3116

1NJ / SEBP1842

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9Y-6000 CHART-CONTROL PANEL

9Y6000 CHART-CONTROL PANEL-PART 1 OF 7 SUB-PAN

Drawing 1 of 1

I . THE FOLLOWING IS THE TOTAL COMPONENT CONSIST OF THIS CHART. REFER TO THE REMAINDER OF THE CHART TO DETERMINE EXACTLY WHICH COMBINATION OF COMPONENTS IS USED FOR SPECIFIC SUBPAN MODEL NUMBERS:

QTY	PART NO.	DESCRIPTION
		MISC. REF
1	9Y5824	PANEL AS.
2	9Y5825	SUPPORT AS.-PANEL
1	1N9770	BREAKER AS.-CKT
3	4D1260	STRIP-TERMINAL
3	4W8229	STRIP-TERMINAL
1	4W8471	RELAY-TIME DELAY
1	9Y8400	REGULATOR AS.
1	7C2701	MODULE-BOOST
1	7C4551	STRIP-MARKER
1	7C4552	STRIP-MARKER
1	7C4553	STRIP-MARKER
1	7C8760	RHEOSTAT AS.
1	7C9179	STRIP-TERMINAL
1	9F3099	SWITCH AS.-MAGC
1	9Y0901	SWITCH AS.
1	9Y0968	FILTER-RFI
1	9Y2912	STRIP-MARKER
1	9Y2913	STRIP-MARKER
1	9Y2914	STRIP-MARKER
1	9Y2921	RELAY
2	9Y2928	BRACKET
2	9Y2929	BRACKET
1	9Y5826	PLATE
1	7E3126	PANEL
1	9Y9771	FILM
4	7C6121	MOUNT-SHOCK
4	5P1075	WASHER-HARD
4	1H3338	LOCKWASHER-TOOTH
4	6V8801	NUT
4	6V8185	NUT-FULL

Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP1842/SEBP18420001 yet.					

9Y-6000 CHART-CONTROL PANEL

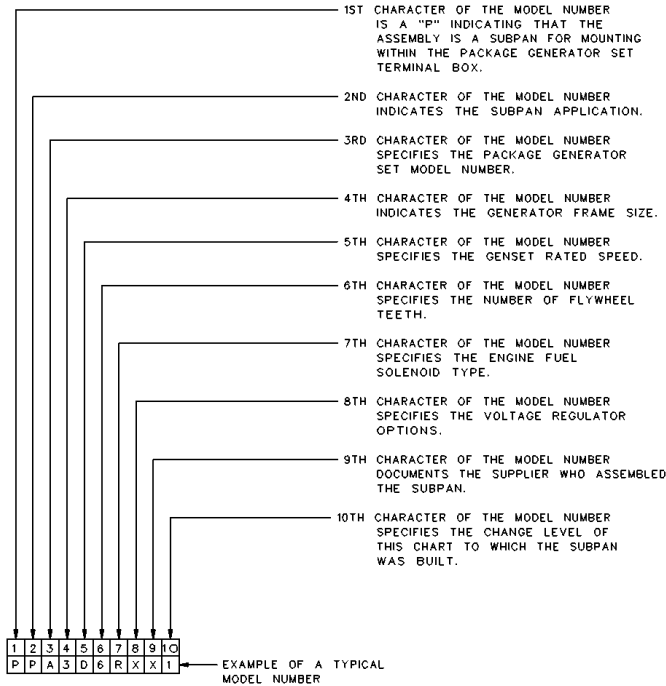
9Y6000 CHART-CONTROL PANEL-PART 2 OF 7 SUB PAN

Drawing 1 of 1

11. SCOPE

THIS CHART IS REQUIRED TO ENABLE THE PROPER SELECTION AND ORDERING OF AN ELECTRICAL SUBPAN FOR USE ON THE PRIME POWER PACKAGE OR A SWITCHGEAR CONVERSION. THE SUBPAN WILL BE INSTALLED IN THE TERMINAL BOX OF THE SAME ENGINE GENERATOR SETS. THE CHART DEFINES THE SUBPAN SYSTEM BILL OF MATERIAL BY ESTABLISHING A MULTI-CHARACTER MODEL NUMBER.

111. THE MODEL NUMBER OF THE SUBPAN SYSTEM IS ESTABLISHED BASED ON THE SUBPAN APPLICATION AND OPTIONS. THE MODEL NUMBER IS DEVELOPED ONE CHARACTER AT A TIME BY FOLLOWING THE INSTRUCTIONS ON THIS AND FOLLOWING SHEETS. A GENERAL DEFINITION OF THE MODEL NUMBER CHARACTERS APPEARS BELOW:



Ref.	Part number	Description	Qty	Code	Group
			.		page
Parts list rows are not synced on this VPS for SEBP1842/SEBP18420002 yet.					

9Y-6000 CHART-CONTROL PANEL

9Y6000 CHART-CONTROL PANEL-PART 3 OF 7 SUB PAN

Drawing 1 of 1

IV. DESCRIPTION OF EQUIPMENT SPECIFIED BY MODEL NUMBER.

1

A "P" AS THE FIRST CHARACTER OF THE MODEL NUMBER INDICATES THE ASSEMBLY IS AN ELECTRICAL SUBPAN FOR MOUNTING WITHIN THE TERMINAL BOX OF A PACKAGE GENERATOR SET.

2

THE SECOND CHARACTER OF THE MODEL NUMBER INDICATES THE SUBPAN APPLICATION.

PPA3D6RXX1 TYPICAL MODEL NUMBER

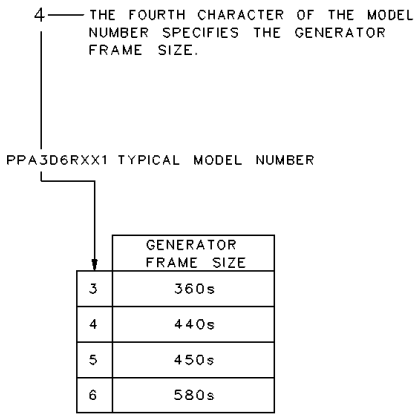
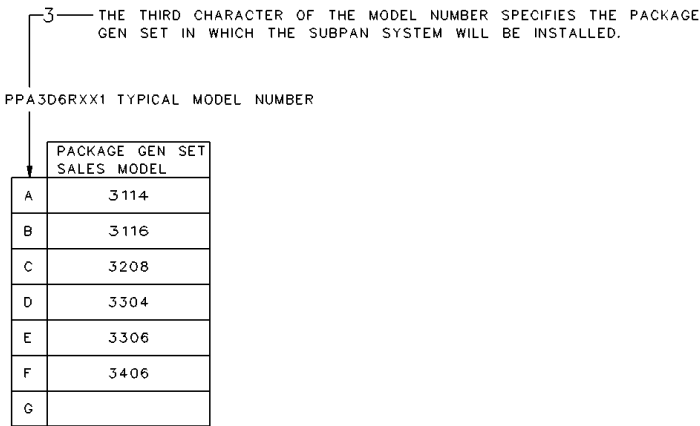
	APPLICATION	COMPONENT DESCRIPTION	PART NO.	QTY
P	PRIME POWER PACKAGE GENERATOR SET	TERMINAL STRIP	4D1260	3
		TERMINAL STRIP MARKER	7C4551	1
		TERMINAL STRIP MARKER	7C4552	1
		TERMINAL STRIP MARKER	7C4553	1
		PANEL	9Y5824	1
E	SWITCHGEAR CONVERSION GROUP- ACCOMMODATES CONVENTIONAL ELECTRO-MECHANICAL SWITCHGEAR USED WITH A PRIME POWER PACKAGE GENERATOR SET	TERMINAL STRIP -DC	4W8229	3
		TERMINAL STRIP MARKER	9Y2912	1
		TERMINAL STRIP MARKER	9Y2913	1
		TERMINAL STRIP -AC	7C9179	1
B	SWITCHGEAR CONVERSION GROUP- ACCOMMODATES CONVENTIONAL ELECTRO-MECHANICAL SWITCH-GEAR USED WITH STANDBY PACKAGE SET EQUIPPED WITH ELECTRO-MECHANICAL CONTROL PANEL	TERMINAL STRIP MARKER	9Y2914	1
		RELAY- SR1	9Y2921	1
		MAGNETIC SWITCH	9F3099	1
		CIRCUIT BREAKER-PINION	1N9770	1
		PANEL	9Y5824	1
		ELECTRONIC SPEED SW.	9Y0901	1
R	RENTAL PACKAGE GENERATOR SET	TERMINAL STRIP	4D1260	3
		TERMINAL STRIP MARKER	7C4551	1
		TERMINAL STRIP MARKER	7C4552	1
		TERMINAL STRIP MARKER	7C4553	1
		PANEL	7E3126	1

Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP1842/SEBP18420003 yet.					

9Y-6000 CHART-CONTROL PANEL

9Y6000 CHART-CONTROL PANEL-PART 4 OF 7 SUB PAN

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP1842/SEBP18420004 yet.					

9Y-6000 CHART-CONTROL PANEL

9Y6000 CHART-CONTROL PANEL-PART 5 OF 7 SUB PAN

Drawing 1 of 1

5 — THE FIFTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE RATED SPEED AT WHICH THE GENERATOR SET WILL OPERATE, & THE ASSOCIATED CRANK TERMINATION & OVERSPEED SPEED SWITCH SETTINGS.

PPA3D6RXX1 TYPICAL MODEL NUMBER

	RATED SPEED (RPM)	SPEED SWITCH SETTINGS (RPM)	
		OVERSPEED	CRANK TERMINATION
A	1000	1185 RPM	400 RPM
B	1200	1421 RPM	
C	1500	1775 RPM	
D	1800	2129 RPM	

REFER TO 3L0332 FOR SPEED SWITCH SETTING

6 — THE SIXTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE NUMBER OF TEETH ON THE FLYWHEEL OF THE GEN SET THAT THE SUBPAN SYSTEM WILL BE INSTALLED ON.

PPA3D6RXX1 TYPICAL MODEL NUMBER

	NUMBER OF FLYWHEEL TEETH	PACKAGE GEN SET	GENERATOR FRAME SIZE
1	--	--	--
2	--	--	--
3	136	3406 (#0 FLYWHEEL HSG)	582
4	113	3406 (#1 FLYWHEEL HSG)	440
5	156	3306,3304	ALL
6	134	3208,3114,3116	ALL

7 — THE SEVENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE TYPE OF ENGINE FUEL CONTROL SOLENOID.

PPA3D6RXX1 TYPICAL MODEL NUMBER

	SOLENOID TYPE	TIME DELAY RELAY
R	ENERGIZED TO RUN	NOT REQUIRED
S	ENERGIZED TO SHUTOFF	4W8471
L	LATCHING	NOT REQUIRED

Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP1842/SEBP18420005 yet.					

9Y-6000 CHART-CONTROL PANEL

9Y6000 CHART-CONTROL PANEL-PART 6 OF 7 SUB PAN

Drawing 1 of 1

8 — THE EIGHTH CHARACTER OF THE MODEL NUMBER SPECIFIES VOLTAGE REGULATOR OPTIONS, IF REQUIRED.

PPA3D6RXX1 TYPICAL MODEL NUMBER

	DESCRIPTION	VOLTAGE REGULATOR	REGULATOR	SERIES	SERIES	RFI	DROOP KIT	
		PART NO. (QTY)	MOUNTING BRACKET PART NO. (QTY)	BOOST MODULE PART NO. (QTY)	BOOST MTG BRKT PART NO. (QTY)	FILTER PART NO. (QTY)	POT PART NO. (QTY)	MTG BRKT PART NO. (QTY)
X	STANDARD VR-3 VOLTAGE REGULATOR	9Y8400 (1)	9Y2928 (2)	NONE (0)	NONE (0)	NONE (0)	NONE (0)	NONE (0)
1	VR-3 WITH SERIES BOOST	9Y8400 (1)	9Y2928 (2)	7C2701 (1)	9Y2929 (2)	NONE (0)	NONE (0)	NONE (0)
2	VR-3 WITH RFI FILTER	9Y8400 (1)	9Y2928 (2)	NONE (0)	NONE (0)	9Y0968 (1)	NONE (0)	NONE (0)
3	VR-3 WITH DROOP KIT	9Y8400 (1)	9Y2928 (2)	NONE (0)	NONE (0)	NONE (0)	7C8760 (1)	9Y5826 (1)
4	VR-3 WITH SERIES BOOST & RFI FILTER	9Y8400 (1)	9Y2928 (2)	7C2701 (1)	9Y2929 (2)	9Y0968 (1)	NONE (0)	NONE (0)
5	VR-3 WITH SERIES BOOST & DROOP KIT	9Y8400 (1)	9Y2928 (2)	7C2701 (1)	9Y2929 (2)	NONE (0)	7C8760 (1)	9Y5826 (1)
6	VR-3 WITH SERIES BOOST, RFI FILTER & DROOP KIT	9Y8400 (1)	9Y2928 (2)	7C2701 (1)	9Y2929 (2)	9Y0968 (1)	7C8760 (1)	9Y5826 (1)
7	VR-3 W/ DROOP KIT & RFI FILTER	9Y8400 (1)	9Y2928 (2)	NONE (0)	NONE (0)	9Y0968 (1)	7C8760 (1)	9Y5826 (1)

9 — THE NINTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE NAME OF THE SUBPAN ASSEMBLER. THIS CHARACTER SHALL BE AN "X" AS INITIALLY DEFINED BY CATERPILLAR, BUT WILL BE CHANGED BY THE ASSEMBLER TO THE APPROPRIATE CHARACTER:

PPA3D6RXX1 TYPICAL MODEL NUMBER

ASSEMBLER'S NAME	
X	INITIALLY ALWAYS AN "X"
R	REPUBLIC ELECTRIC & DEVELOPMENT

10 — THE TENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE CHANGE LEVEL OF THIS CHART TO WHICH THE SUBPAN SYSTEM WAS BUILT.

PPA3D6RXX1 TYPICAL MODEL NUMBER

THIS MEANS CHANGE LEVEL 1.
REFER TO DRAWING TITLE BLOCK AND/OR SUBPAN IDENTIFICATION TAG FOR ACTUAL CHANGE LEVEL.

Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP1842/SEBP18420006 yet.					

9Y-6000 CHART-CONTROL PANEL

9Y6000 CHART-CONTROL PANEL-PART 7 OF 7 SUB PAN

Drawing 1 of 1

√ . IN ADDITION TO THE COMPONENTS SPECIFIED BY THE MODEL NUMBER. THE FOLLOWING COMPONENTS ARE REQUIRED TO COMPLETE THE SUBPAN SYSTEM.

QTY	PART NO.	COMPONENT	DESCRIPTION
1 LOT	---	WIRING	COMPONENT INTERCONNECT WIRING
1 LOT	---	LABELS	CAT APPROVED COMPONENT ID LABELS
1 LOT	---	WIREWAY	PLASTIC WIREWAY, CAT APPROVED, USE AS REQUIRED
1 LOT	---	SPIRAL WRAP	WIRE HARNESS WRAP, CAT APPROVED, USE AS REQUIRED
1	9Y9771	FILM	CATERPILLAR IDENTIFICATION LABEL
2	9Y5825	SUPPORT	MOUNTING BRACKET FOR PANEL AS.
4	7C6121	MOUNT-SHOCK	RUBBER SHOCK MOUNT FOR SUBPAN
4	5P1075	WASHER	} MOUNTING HARDWARE
4	1H3338	LOCKWASHER	
4	6V8801	NUT	
4	6V8185	NUT	

√ I. — GENERAL REQUIREMENTS

1. ALL SUBPAN SYSTEM SHEETMETAL COMPONENTS SHALL BE PAINTED WITH FLAT BLACK ENAMEL CONTAINING A HARDENING AGENT.
2. A NON-METALLIC IDENTIFICATION NAMEPLATE SHALL BE ATTACHED TO THE SUBPAN. 9Y6000 AND THE SUBPAN MODEL NUMBER SHALL BE STAMPED ON THIS NAMEPLATE, ALONG WITH THE DATE CODE OF MANUFACTURE. A SUPPLIER/ASSEMBLER'S NAMEPLATE SHALL NOT APPEAR.
3. A COMPLETE SET OF CAT DRAWINGS INCLUDING OUTLINE DRAWINGS, ELECTRICAL SCHEMATICS, WIRING & INTERCONNECT DIAGRAMS SHALL BE PACKED IN A CAT APPROVED PRINT HOLDER & ATTACHED TO EACH SUBPAN.
4. STANDARD FASTENERS USED FOR SHEETMETAL TO SHEETMETAL SECUREMENT SHALL BE TORQUED TO PROPER VALUES GIVEN BELOW. IN ADDITION, TYPE "B" LOCTITE SEALANT, AS SPECIFIED BY 1E2200, SHALL BE USED.

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	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

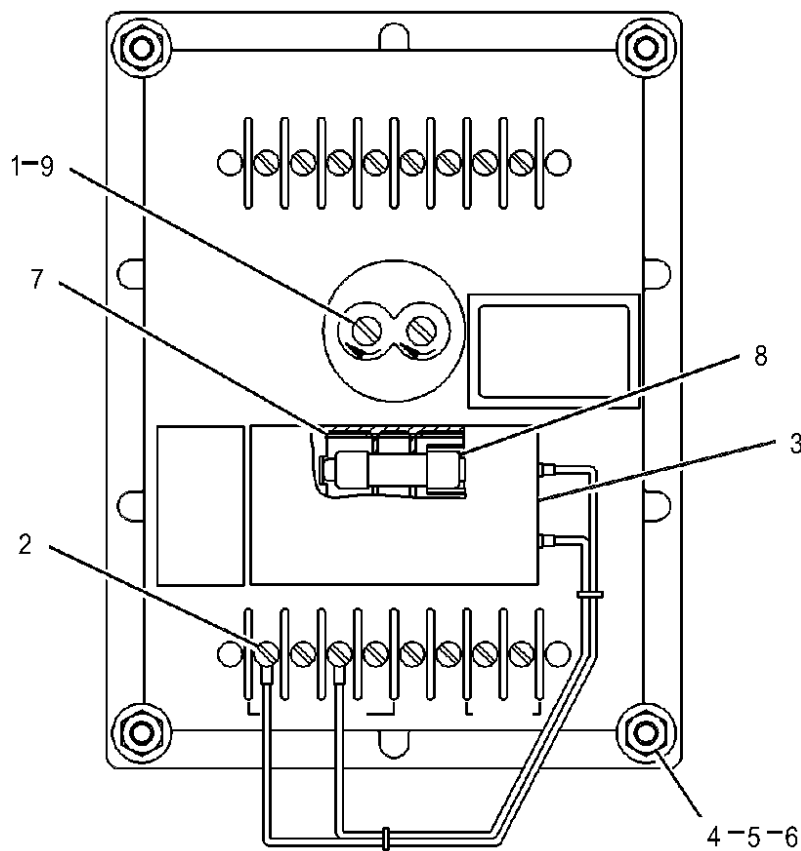
√ II. — CATERPILLAR REFERENCE DRAWINGS
9Y6001 CHANGE 01 INSTRUCTIONS.

Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP1842/SEBP18420007 yet.					

9Y-8400 REGULATOR AS-AUTOMATIC VOLTAGE

9Y8400 REGULATOR AS-AUTOMATIC VOLTAGE SERVICE REPLACEMENT ORDER 1496130-PAGE 10

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
1	8M-8468	SEAL-O-RING	2		
2	6V-8374	SCREW-MACHINE	16		
3	9Y-8420	COVER	1		
4	9S-8750	NUT-FULL	4		
5	4B-4674	WASHER (1.6MM THK)	4		
6	7C-3887	SCREW	4		
7	4P-9826	BLOCK-FUSE	1		
8	9Y-8419	FUSE	2		
9	4B-1242	SCREW-MACHINE	2		

9Y-0968 KIT-RFI FILTER

9Y0968 KIT-FILTER-RFI FOR USE WITH VR3 VOLTAGE REGULATOR

No separate drawing is provided in the current catalog card.

Ref.	Part number	Description	Qty	Code	Group page
			.		
NO SERVICEABLE PARTS					

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Complete Caterpillar PDF Parts Catalogue

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