

CATERPILLAR 3114

6AF / SEBP1800

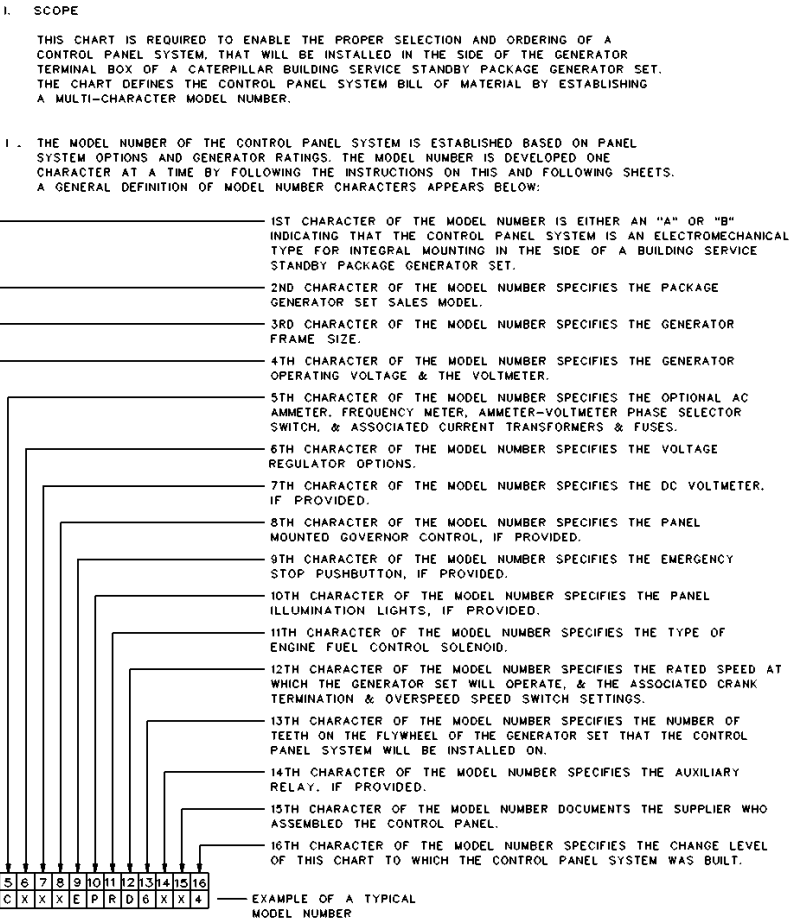
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9Y-1300 CHART-CONTROL PANEL

9Y1300 CHART-CONTROL PANEL-PART 1 OF 8 CONVENTIONAL-INTEGRAL MOUNT

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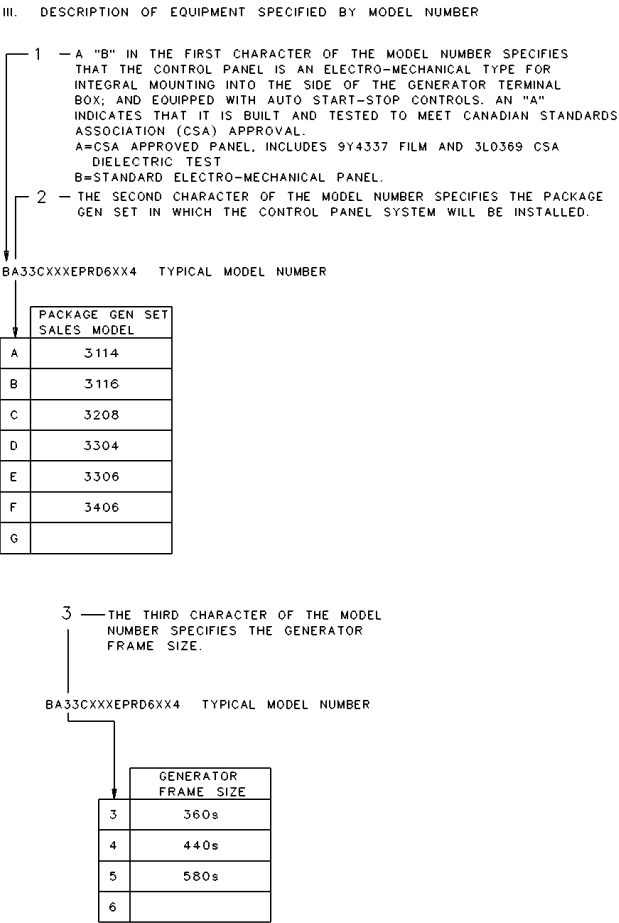


Ref.	Part number	Description	Qty	Code	Group page
REFER TO CHART					

9Y-1300 CHART-CONTROL PANEL

9Y1300 CHART-CONTROL PANEL-PART 2 OF 8 CONVENTIONAL-INTEGRAL MOUNT

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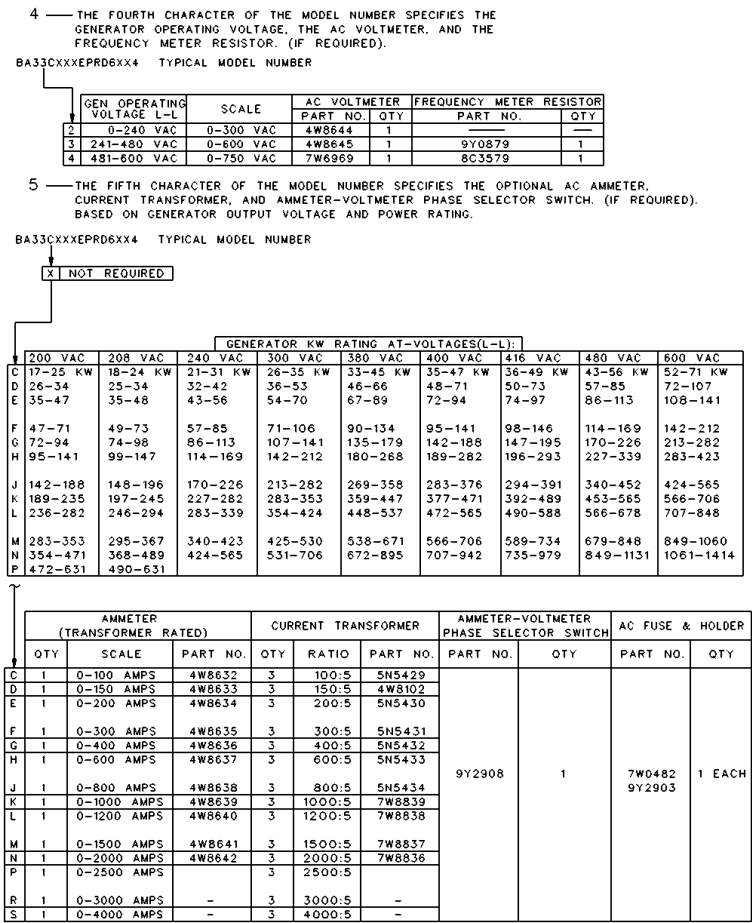


Ref.	Part number	Description	Qty	Code	Group page
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9Y-1300 CHART-CONTROL PANEL

9Y1300 CHART-CONTROL PANEL-PART 3 OF 8 CONVENTIONAL-INTEGRAL MOUNT

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Ref.	Part number	Description	Qty	Code	Group page
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9Y-1300 CHART-CONTROL PANEL

9Y1300 CHART-CONTROL PANEL-PART 4 OF 8 CONVENTIONAL-INTEGRAL MOUNT 9Y8400-PAGE 18

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6 — THE SIXTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE VOLTAGE
REGULATOR OPTIONS & VOLTAGE ADJUST POT.
BA33CXXXEPRD6XX4 TYPICAL MODEL NUMBER

	DESCRIPTION	VOLTAGE REGULATOR PART NO. (QTY)	REGULATOR MOUNTING BRACKET (QTY)	VOLTAGE ADJUST POT & HARDWARE PART NO.			SERIES BOOST MODULE PART NO. (QTY)	SERIES BOOST MTG BRKT PART NO. (QTY)	RFI FILTER PART NO. (QTY)
				POT (QTY)	KNOB (QTY)	SEAL (QTY)			
X	VR-4 VOLTAGE REGULATOR	*7C7557 (1)	—	—	—	—	—	—	—
1	VR-4 REGULATOR W/VOLTAGE ADJ. POTENTIOMETER	*7C7557 (1)	—	7C447 (1)	4W5972 (1)	7C4550 (1)	—	—	—
2	VR-4 REGULATOR W/VOLTAGE ADJ. POT & SERIES BOOST MODULE	*7C7557 (1)	—	7C447 (1)	4W5972 (1)	7C4550 (1)	7C2701 (1)	9Y2929 (2)	—
3									
4	VR-3 VOLTAGE REGULATOR	9Y8400 (1)	9Y2928 (2)	—	—	—	—	—	—
5	VR-3 REGULATOR W/VOLTAGE ADJ. POTENTIOMETER	9Y8400 (1)	9Y2928 (2)	7C447 (1)	4W5972 (1)	7C4550 (1)	—	—	—
6	VR-3 REGULATOR W/VOLTAGE ADJ. POT & SERIES BOOST MODULE	9Y8400 (1)	9Y2928 (2)	7C447 (1)	4W5972 (1)	7C4550 (1)	7C2701 (1)	9Y2929 (2)	—
7	VR-3 REGULATOR W/VOLTAGE ADJ. POTENTIOMETER & RFI FILTER	9Y8400 (1)	9Y2928 (2)	7C447 (1)	4W5972 (1)	7C4550 (1)	—	—	9Y0968 (1)
8	VR-3 REGULATOR W/VOLTAGE ADJ. POTENTIOMETER RFI FILTER & SERIES BOOST MODULE	9Y8400 (1)	9Y2928 (2)	7C447 (1)	4W5972 (1)	7C4550 (1)	7C2701 (1)	9Y2929 (2)	9Y0968 (1)

* INCLUDES 9Y3843 FUSE

7 — THE SEVENTH CHARACTER OF THE MODEL NUMBER
SPECIFIES THE DC VOLTMETER, IF PROVIDED.

BA33CXXXEPRD6XX4 TYPICAL MODEL NUMBER

	DC VOLTMETER PART NO.	QTY
X	NOT PROVIDED	0
D	4W8184	1

Ref.	Part number	Description	Qty	Code	Group page
REFER TO CHART					

9Y-1300 CHART-CONTROL PANEL

9Y1300 CHART-CONTROL PANEL-PART 5 OF 8 CONVENTIONAL-INTEGRAL MOUNT

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8 THE EIGHTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE PANEL MOUNTED GOVERNOR CONTROLS, IF PROVIDED.

BA33CXXXEPD6XX4 TYPICAL MODEL NUMBER

	GOVERNOR CONTROLS	GOVERNOR TYPE	QTY	GOV. SWITCH	ELECTRONIC GOV. GP
X	NONE	CAT HYDRA-MECH	—	—	—
1	GOVERNOR SWITCH	CAT HYDRA-MECH PSG,3161	1	7N8008	—

9 THE NINTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE EMERGENCY STOP PUSHBUTTON OPTION, IF PROVIDED.

BA33CXXXEPD6XX4 TYPICAL MODEL NUMBER

	EMERGENCY STOP PUSHBUTTON SW.	QTY
X	NOT PROVIDED	0
E	4W8735	1

10 THE TENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE PANEL ILLUMINATION LIGHT OPTION, IF REQUIRED.

BA33CXXXEPD6XX4 TYPICAL MODEL NUMBER

	LAMP HOUSING AS.	LAMP	SWITCH	QTY
X	NOT REQUIRED	NOT REQUIRED	NOT REQUIRED	0
P	7G9730	7N5876	--	2
	--	--	8D2676	1

11 THE ELEVENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE TYPE OF ENGINE FUEL CONTROL SOLENOID.

BA33CXXXEPD6XX4 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
REFER TO CHART					

9Y-1300 CHART-CONTROL PANEL

9Y1300 CHART-CONTROL PANEL-PART 6 OF 8 CONVENTIONAL-INTEGRAL MOUNT

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

BA33CXXXEPRD6XX4 TYPICAL MODEL NUMBER

	RATED SPEED (RPM)	SPEED SWITCH SETTINGS (RPM)	
		OVERSPEED	CRANK TERMINATION
A	1000	REF 3L0332	400 RPM
B	1200	REF 3L0332	
C	1500	REF 3L0332	
D	1800	REF 3L0332	

REFER TO 3L0332 FOR SPEED SWITCH SETTING

13 — THE THIRTEENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE NUMBER OF TEETH ON THE FLYWHEEL OF THE GEN SET THAT THE CONTROL PANEL SYSTEM WILL BE INSTALLED ON.

BA33CXXXEPRD6XX4 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

14 — THE FOURTEENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE AUXILIARY RELAY OPTION, IF REQUIRED.

BA33CXXXEPRD6XX4 TYPICAL MODEL NUMBER

	RELAY	SOCKET
X	NOT REQUIRED	NOT REQUIRED
A	3N5714	4W8787

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

BA33CXXXEPRD6XX4 TYPICAL MODEL NUMBER

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

Ref.	Part number	Description	Qty	Code	Group page
		REFER TO CHART			

9Y-1300 CHART-CONTROL PANEL

9Y1300 CHART-CONTROL PANEL-PART 7 OF 8 CONVENTIONAL-INTEGRAL MOUNT

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16 — THE SIXTEENTH CHARACTER OF THE MODEL NUMBER SPECIFIES THE CHANGE LEVEL OF THIS CHART TO WHICH THE CONTROL PANEL SYSTEM WAS BUILT.

BA33CXXXEPRD6XX4 TYPICAL MODEL NUMBER

THIS MEANS CHANGE LEVEL 4. REFER TO DRAWING TITLE BLOCK AND/OR CONTROL PANEL IDENTIFICATION TAG FOR ACTUAL CHANGE LEVEL.

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

QTY	PART NO.	COMPONENT	DESCRIPTION
1	3N5976	SWITCH	ROTARY SW. & KNOB-ENGINE CONTROL
1	4W8734	BOARD AS.	FOUR LIGHT FAULT BOARD
2	3N5978	TIMER	ADJ. ON DELAY TIMER
11CM	6V1075	TRACK	TIMER MOUNTING TRACK
	9Y2921	RELAY	RELAY SRI
4	3N5714	RELAY	24VDC RELAY, RR, ENFR, AR
4	4W8787	SOCKET	RELAY SOCKET
1	6T7337	METER	HOURLY METER-ELECTRIC 24VDC
1	9F3099	MAG SW	STARTER MOTOR MAGNETIC SWITCH
1	9H1958	BREAKER	CIRCUIT-BREAKER-STARTER PINION
2	4W8229	TERMINAL	20 POINT TERMINAL BOARD - DC
1	9Y2912	MARKER	TBA TERMINAL BOARD MARKER STRIP
1	9Y2913	MARKER	TBB TERMINAL BOARD MARKER STRIP
1	9Y2914	MARKER	AC TERMINAL BOARD MARKER STRIP TBC
1	7C9179	TERMINAL	AC TERMINAL BOARD
1	9Y0901	SWITCH	ELECTRONIC SPEED SWITCH
1	3K8782	FUSE	10 AMP, 32VDC FUSE
1	8M0456	FUSE	20 AMP, 32VDC FUSE
2	9Y2904	HOLDER	DC FUSE HOLDER, BAYONET TYPE, BUSSMANN HKP-HH OR APPROVED
2	7W0482	FUSE	2 AMP, 600VAC
2	9Y2903	HOLDER	AC FUSE HOLDER, BAYONET TYPE, BUSSMANN HPM OR APPROVED
1	9Y0946	FILM	INSTRUMENT PANEL POLYCARBONATE GRAPHIC FILM
1	9Y0944	PANEL	SUBPAN SHEETMETAL PLATE
1	9Y0945	PANEL	INSTRUMENT PANEL SHEETMETAL PLATE
1	4W0483	GAGE	WATER TEMPERATURE GAGE
1	4W2065	GAGE	OIL PRESSURE GAGE
1 LOT	---	WIRING	COMPONENT INTERCONNECT WIRING
1 LOT	---	LABELS	CAT APPROVED COMPONENT ID LABEL
1 LOT	---	WIREWAY	PLASTIC WIREWAY, CAT APPROVED, USE AS REQUIRED
1 LOT	---	SPIRAL WRAP	WIRE HARNESS WRAP, CAT APPROVED, USE AS REQUIRED
2DM	5P1275	WIRE	LOCK WIRE FOR SPEED SWITCH
1	8S8158	SEAL	PLASTIC WIRE SEAL FOR SPEED SWITCH
1	9Y9771	FILM	PANEL IDENTIFICATION NAMEPLATE
1	9Y9781	FILM	20A DC FUSE REPLACEMENT INFORMATION LABEL
1	9Y9782	FILM	10A DC FUSE REPLACEMENT INFORMATION LABEL
1	9Y9783	FILM	2A AC FUSE REPLACEMENT INFORMATION LABEL
1	7C5695	METER	FREQUENCY METER - 240V AC

Ref.	Part number	Description	Qty	Code	Group page
REFER TO CHART					

9Y-1300 CHART-CONTROL PANEL

9Y1300 CHART-CONTROL PANEL-PART 8 OF 8 CONVENTIONAL-INTEGRAL MOUNT

Drawing 1 of 1

V. ——— GENERAL REQUIREMENTS

- 1. ALL CONTROL PANEL 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 INSIDE OF THE CONTROL PANEL. 9Y1300 AND THE CONTROL PANEL 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 PANEL.
- 4. STANDARD FASTENERS USED FOR SHEETMETAL TO SHEETMETAL SECUREMENT SHALL BE TORQUED TO PROPER VALUES GIVEN BELOW. ALL FASTENERS VISIBLE ON THE FRONT OF THE INSTRUMENT PANEL SHALL BE BLACK. IN ADDITION, TYPE "B" LOCTITE SEALANT, AS SPECIFIED BY 1E2200 SHALL BE USED, EXCEPT ON INSTRUMENT PANEL WHERE LOCTITE MAY ADVERSELY AFFECT FILMS & PAINT.

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

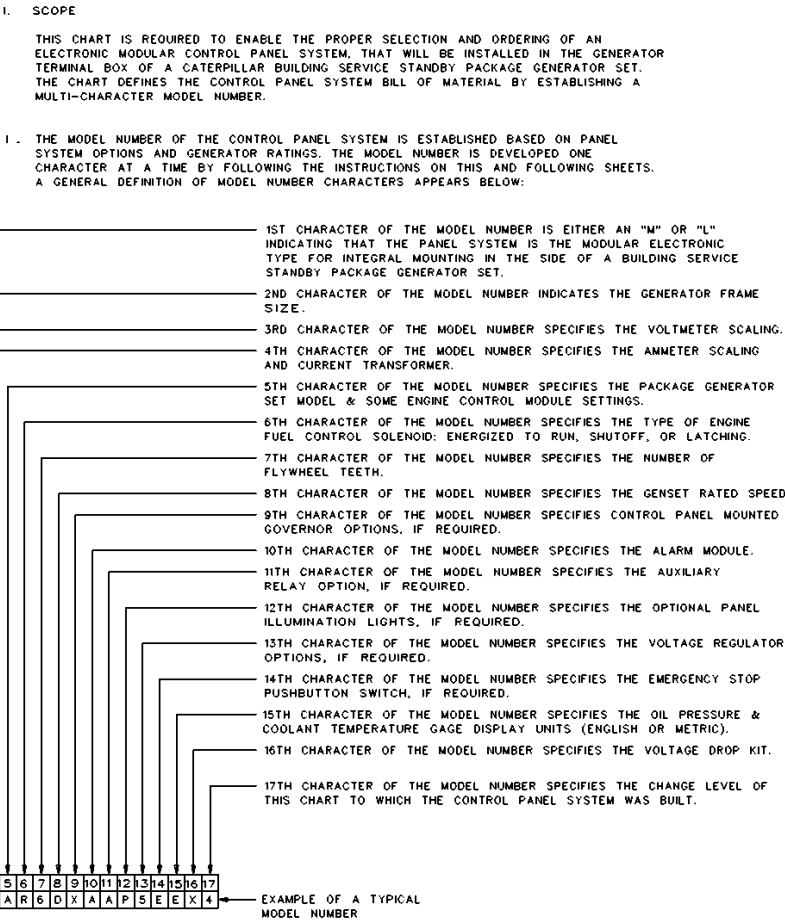
VI. ——— CATERPILLAR REFERENCE DRAWINGS
9Y1301 CHANGE 04 INSTRUCTIONS.

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REFER TO CHART					

9Y-1400 CHART-CONTROL PANEL

9Y1400 CHART-CONTROL PANEL-PART 1 OF 8 ELECTRONIC-INTEGRAL MOUNT

Drawing 1 of 1



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REFER TO CHART					

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